

Report No.:

Test Time: 2014/10/15 16:51

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: LT-I1218-N88A4

Current: 0.082A

Power Factor: 0.969

Voltage: 220 V

Power: 17.57W

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 1583.4 lm

Downward Ratio: 89%

Horizontal Diffuse Angle(25%,50%,75%): H139.1,H108.1,H72.9

Vertical Diffuse Angle(25%,50%,75%): V194,V139.6,V91.1

Luminaire Efficacy Rating (LER): 90

Max. Intensity: 422.74 cd

Total Rated Lamp Lumens: 1583.4 lm

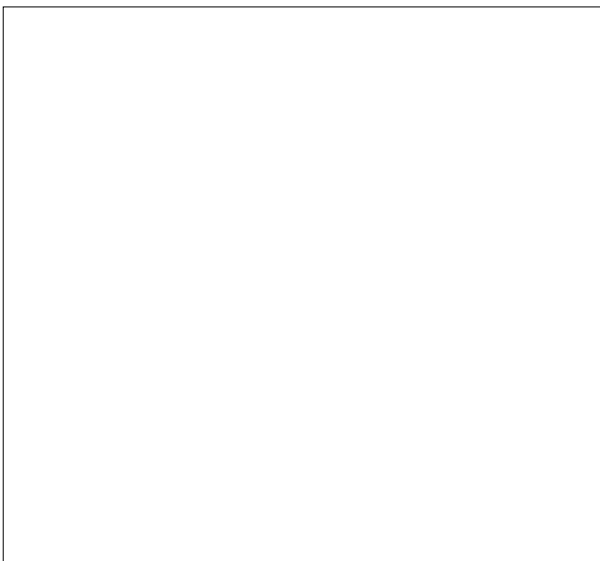
Efficiency: 100%

Upward Ratio: 11%

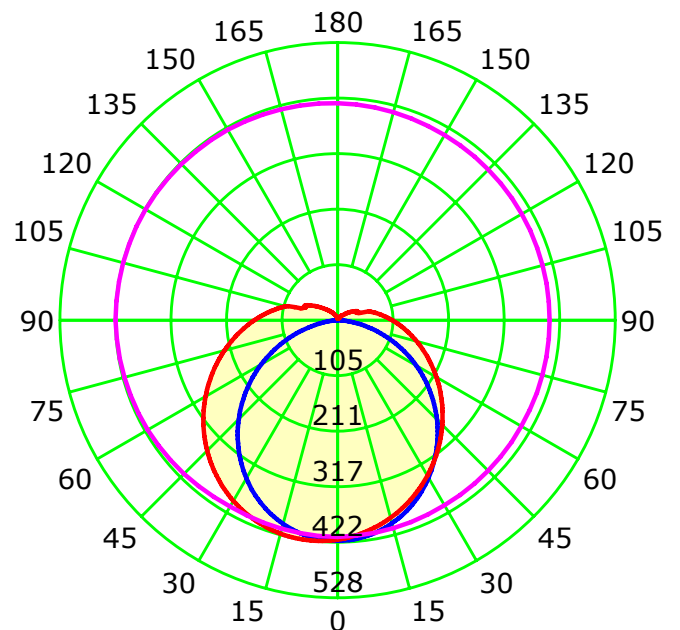
Central Intensity: 419.99 cd

Pos of Max. Intensity: H270 V9

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 123.9° Unit: cd

— C0-C180 — C90-C270 — G9

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

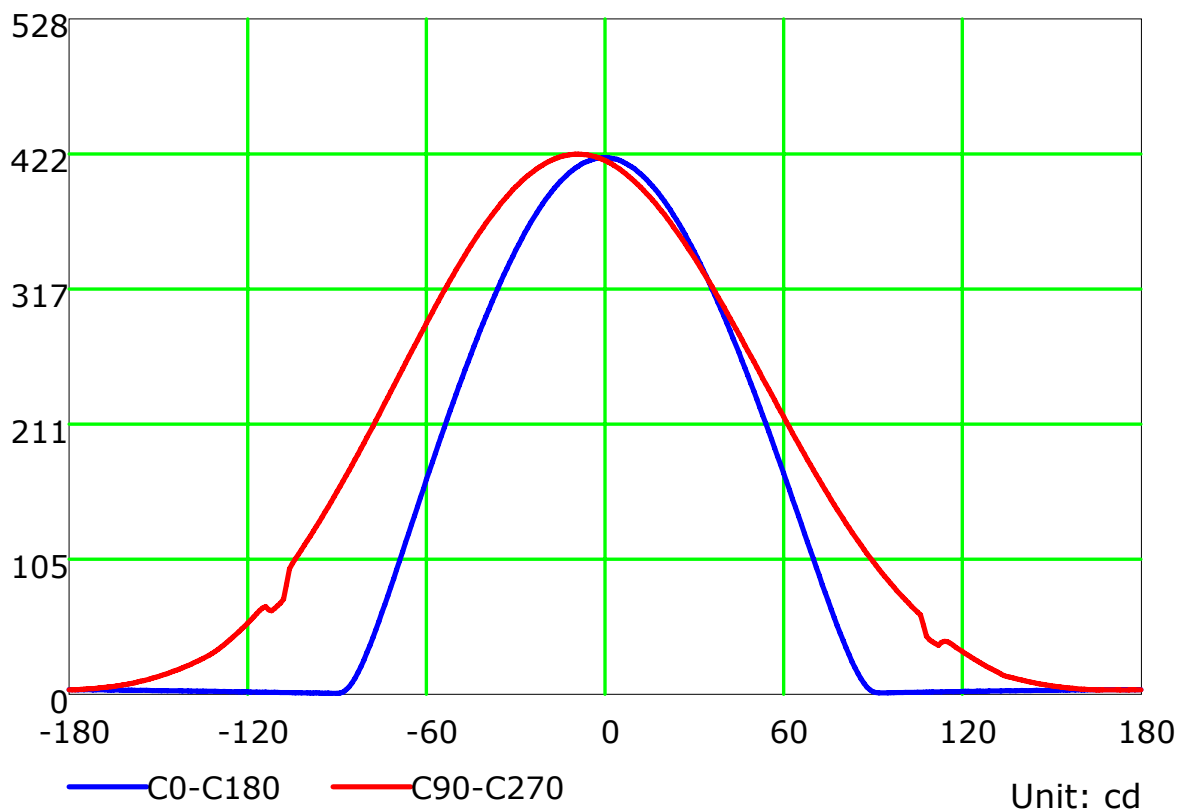
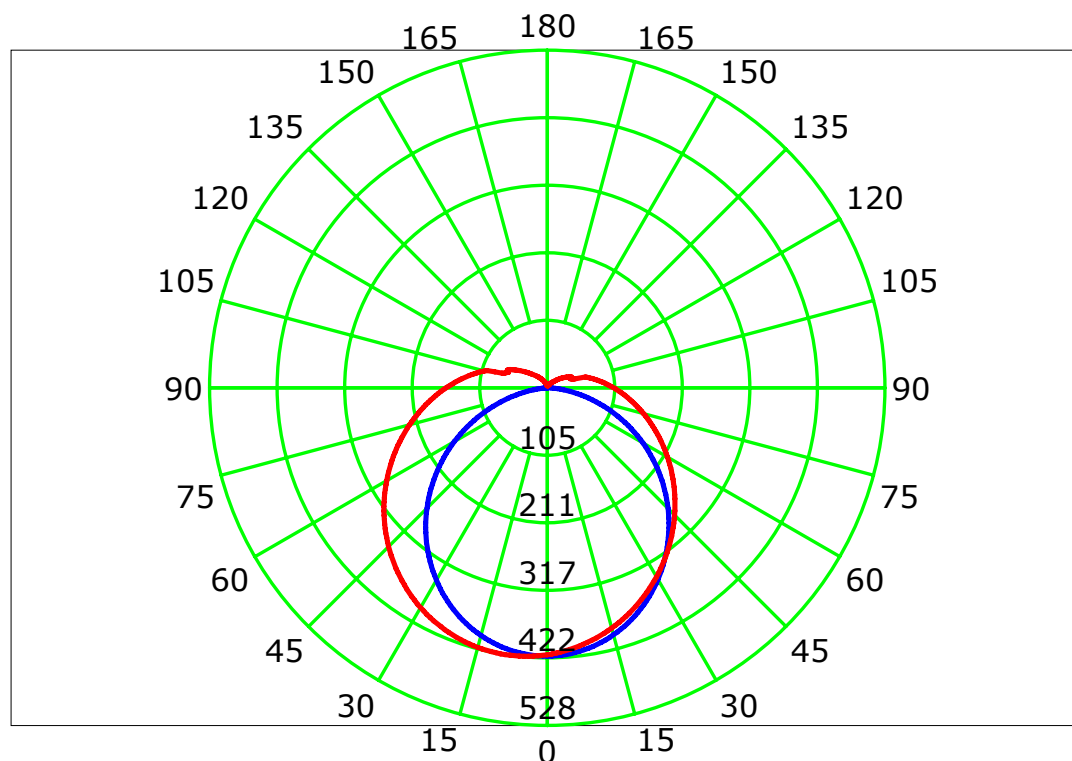
Test Device: GPM-1800B

Distance: 8.038 m

Humidity:

Inspector:

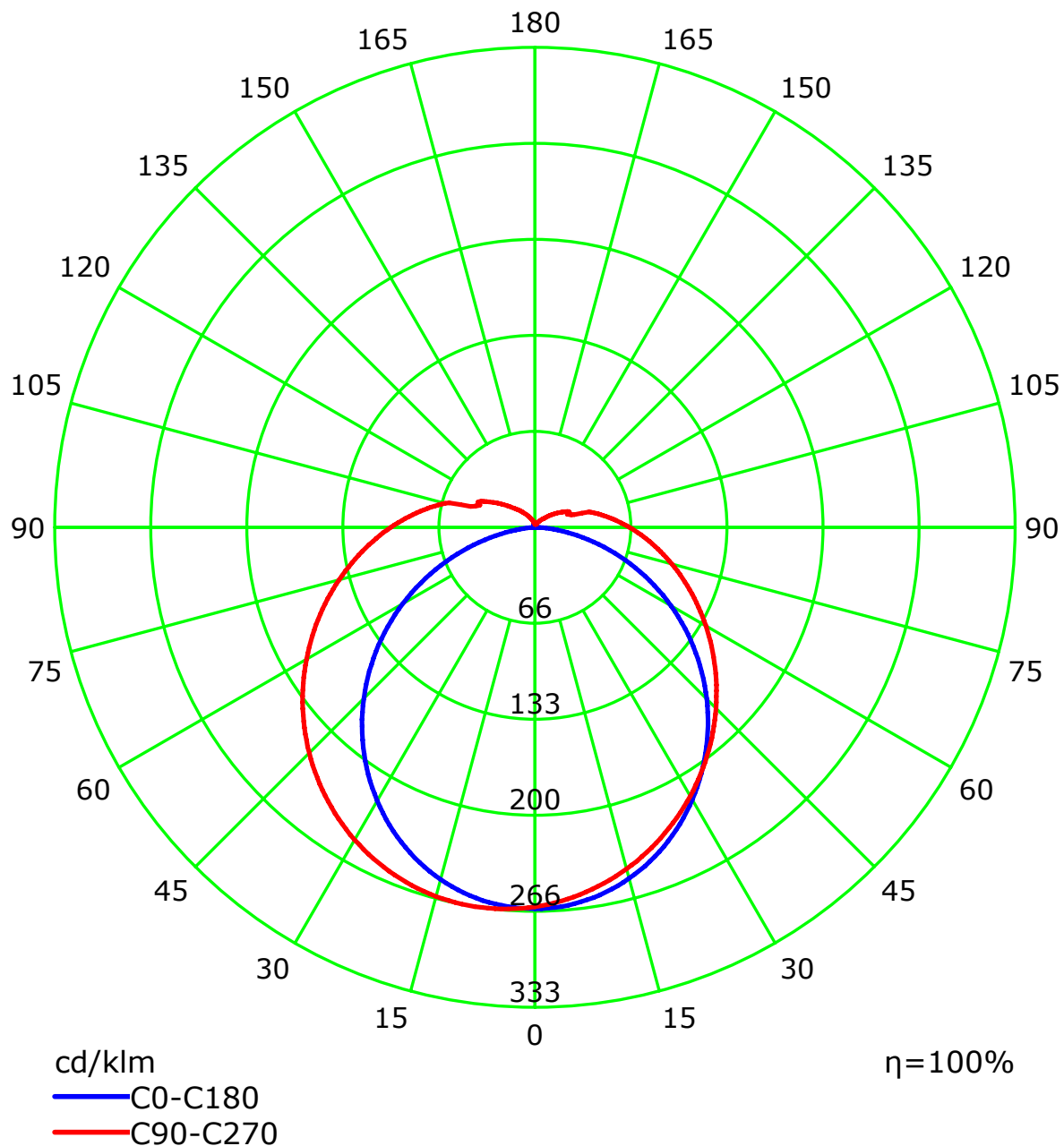
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd / klm)



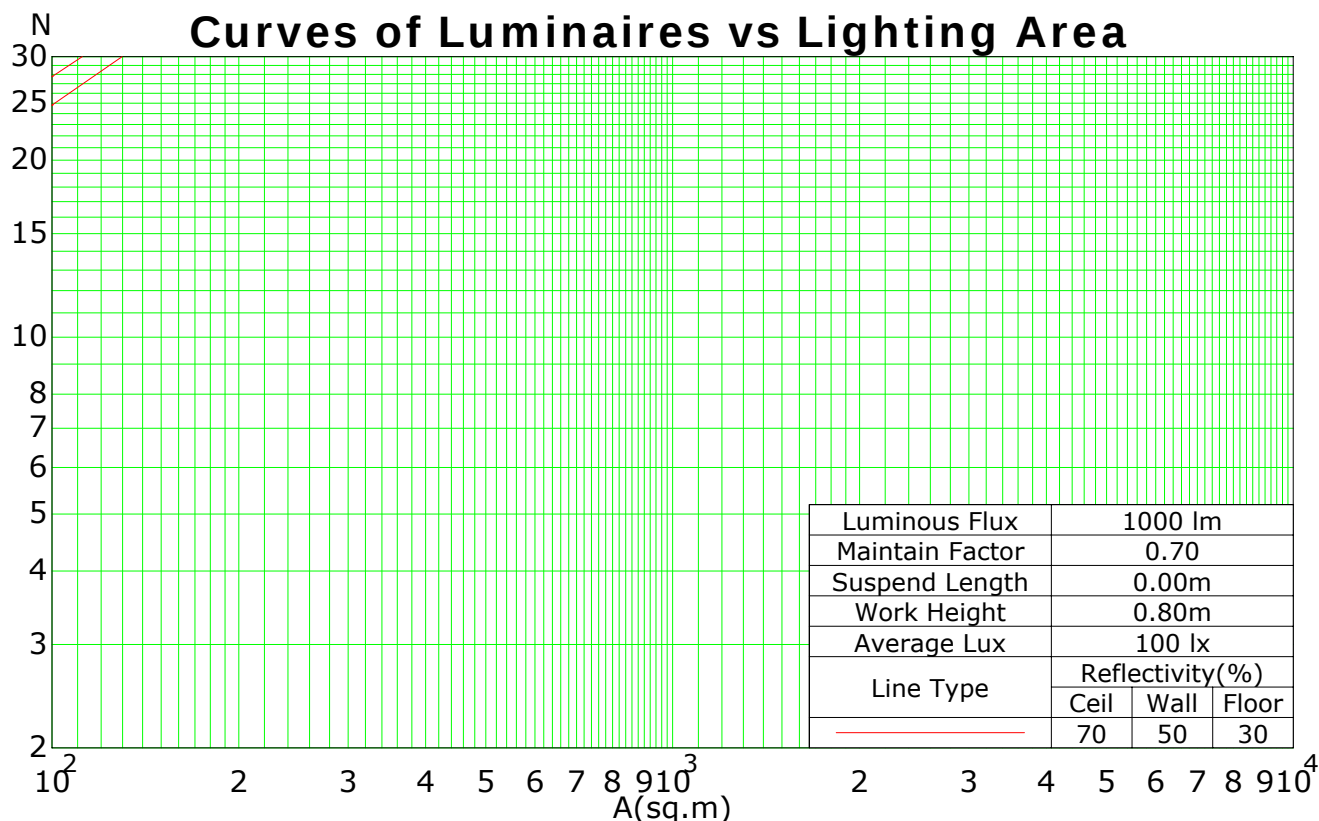
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	104	98	93	88	100	95	90	86	88	85	81	82	79	77	77	75	72	69
2	94	84	77	70	90	81	74	68	76	70	65	71	66	62	66	62	59	56
3	85	73	64	57	81	71	63	56	66	59	54	62	56	51	58	53	49	46
4	77	65	55	48	74	62	54	47	59	51	45	55	49	43	51	46	42	39
5	71	57	48	41	68	56	47	40	52	45	39	49	43	37	46	40	36	33
6	65	52	42	35	63	50	41	35	47	39	34	44	38	33	42	36	31	29
7	61	47	37	31	58	45	37	31	43	35	30	40	34	29	38	32	28	26
8	56	42	34	28	54	41	33	27	39	32	26	37	30	26	35	29	25	23
9	53	39	30	25	51	38	30	24	36	29	24	34	28	23	32	27	22	20
10	49	36	28	22	47	35	27	22	33	26	21	31	25	21	30	24	20	18

Spacing Criteria (0-180): 1.23
Spacing Criteria (90-270): 1.32
Spacing Criteria (Diagonal): 1.40



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

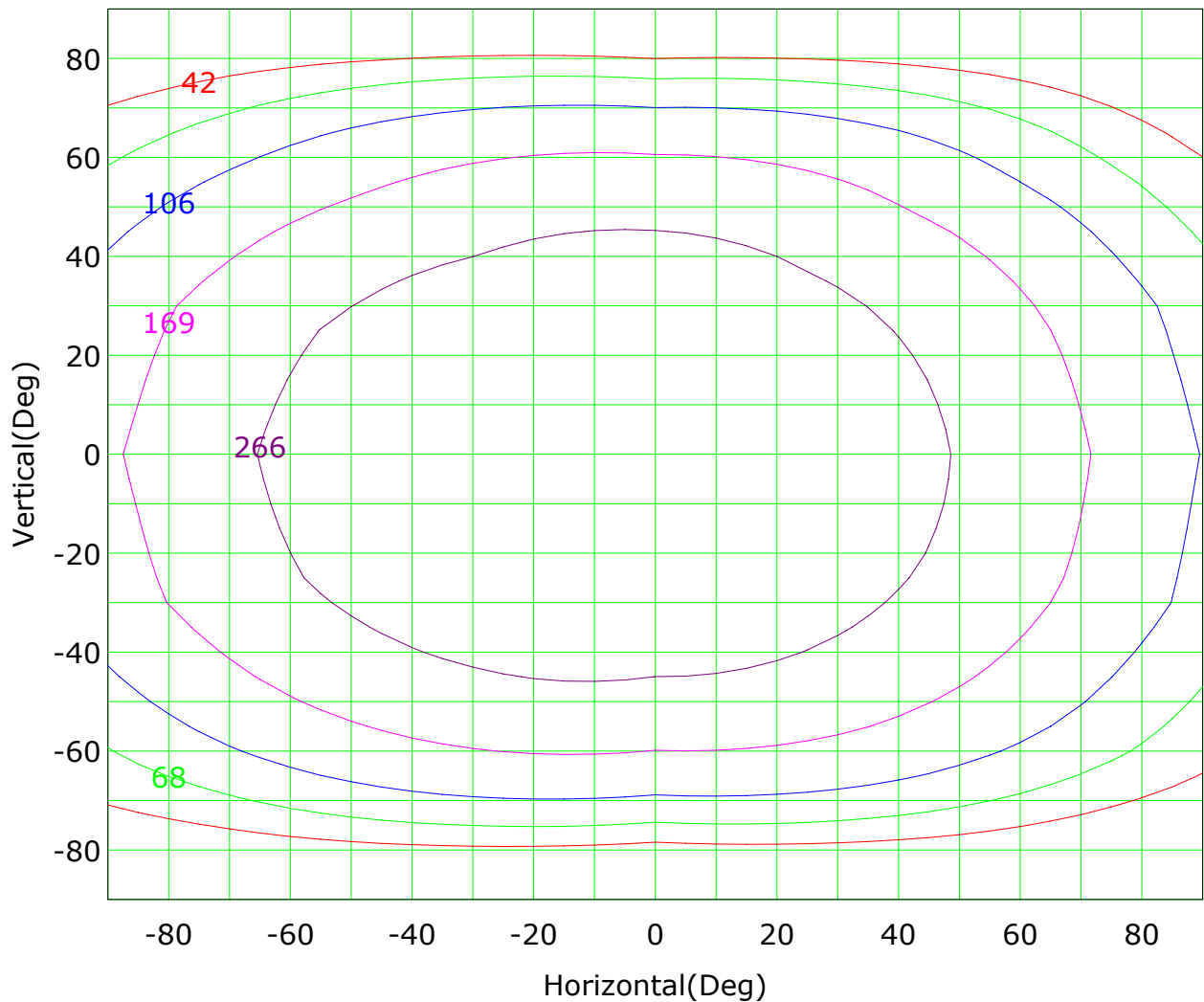
Test Device: GPM-1800B

Distance: 8.038 m

Humidity:

Inspector:

Isocandela (rectangle)



Imax (100%): 423 cd

(10%):	42 cd	(16%):	68 cd
(25%):	106 cd	(40%):	169 cd
(63%):	266 cd	(100%):	423 cd

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

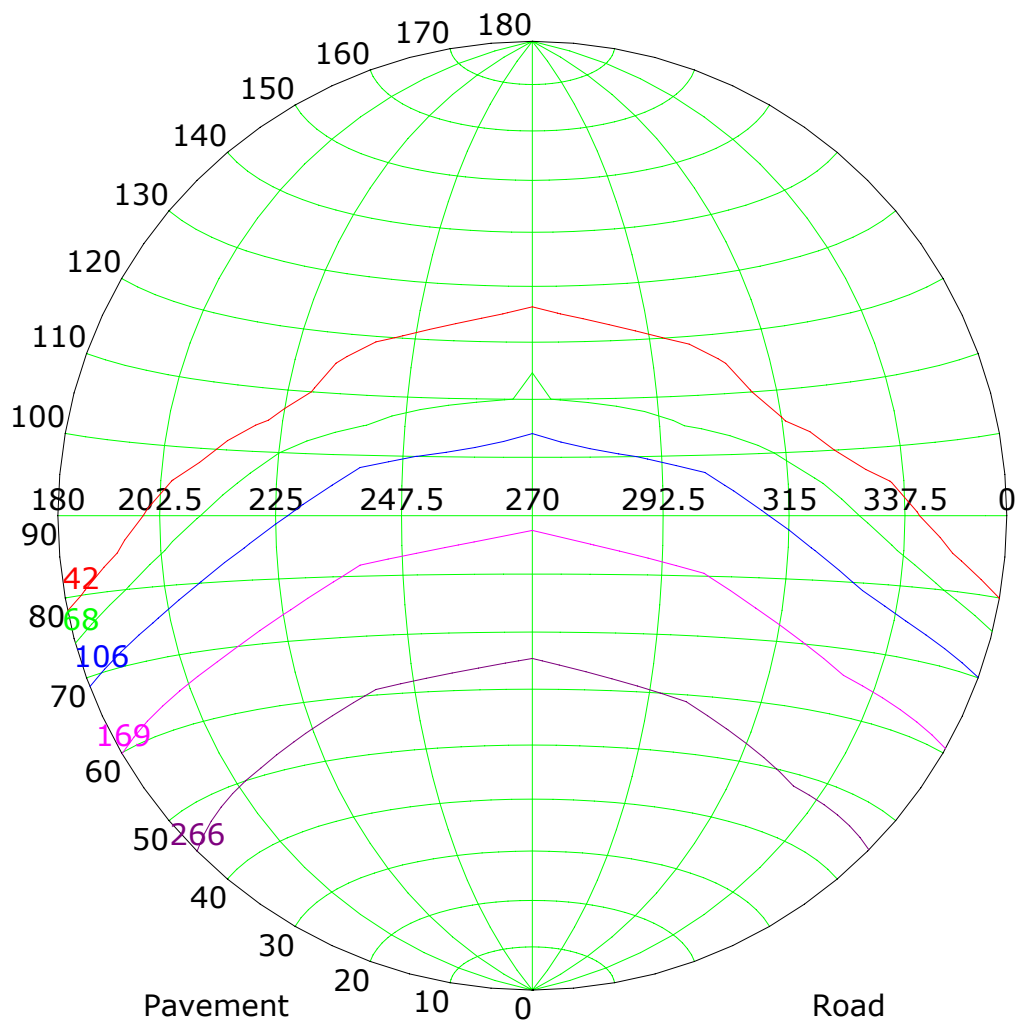
Test Device: GPM-1800B

Distance: 8.038 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 423 cd

(10%):	42 cd	(16%):	68 cd
(25%):	106 cd	(40%):	169 cd
(63%):	266 cd	(100%):	423 cd

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

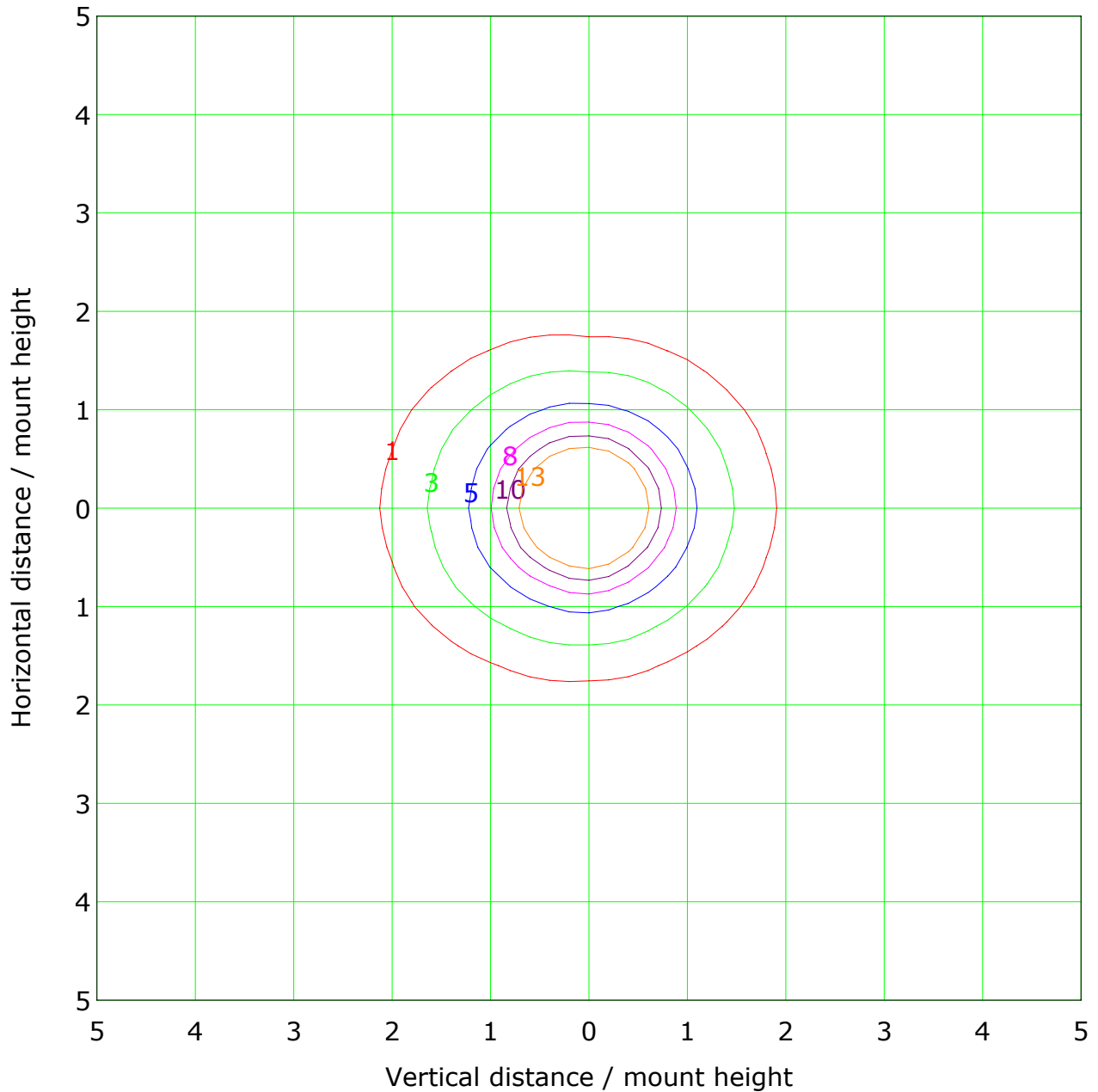
Test Device: GPM-1800B

Distance: 8.038 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 4.0m		Max Lux(100%): 26.2 lx	
— (5%):	1.3 lx	— (10%):	2.6 lx
— (20%):	5.2 lx	— (30%):	7.9 lx
— (40%):	10.5 lx	— (50%):	13.1 lx
— (100%):	26.2 lx	— (150%):	39.4 lx

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

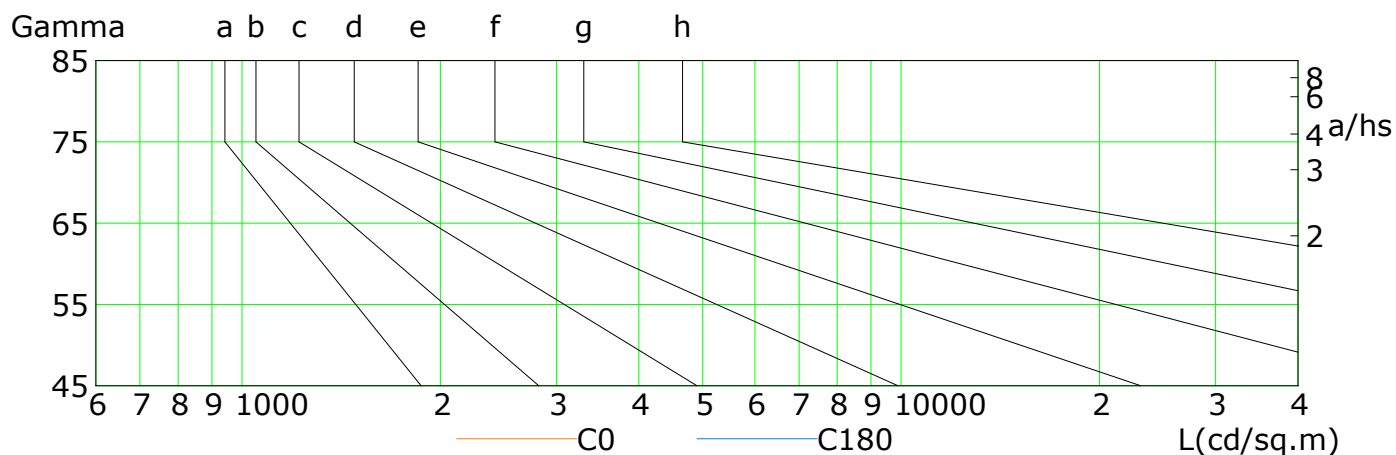
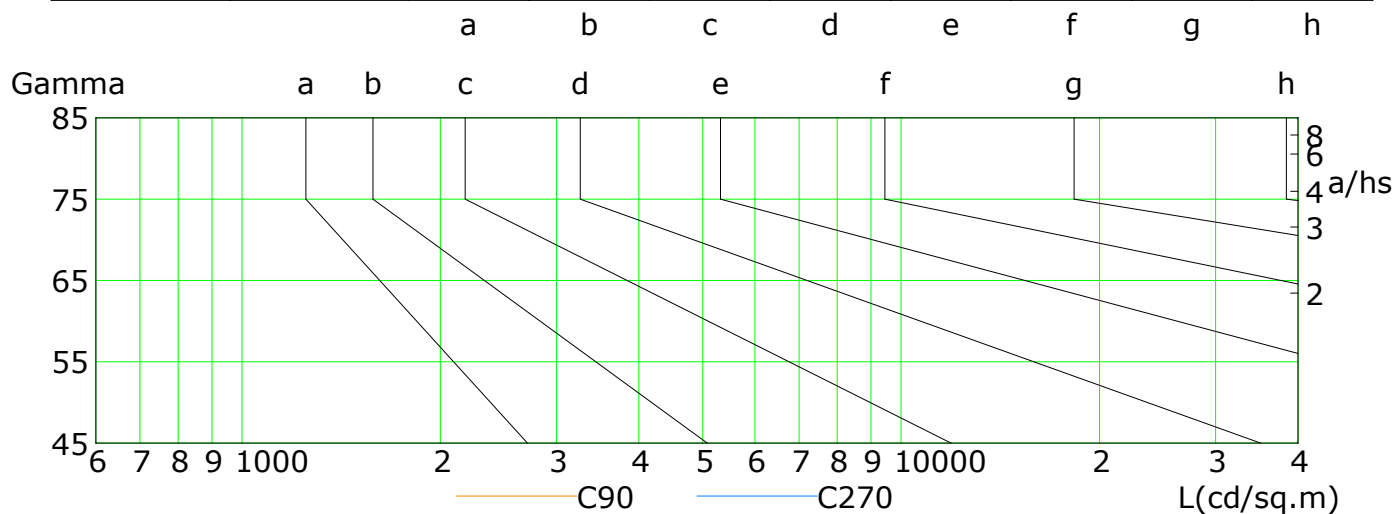
Distance: 8.038 m

Humidity:

Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	268	237	206	173	140	106	73	42	16
C90	282	260	239	217	196	175	156	137	120
C180	266	235	202	168	133	98	64	33	9
C270	351	332	312	290	268	246	223	201	179

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

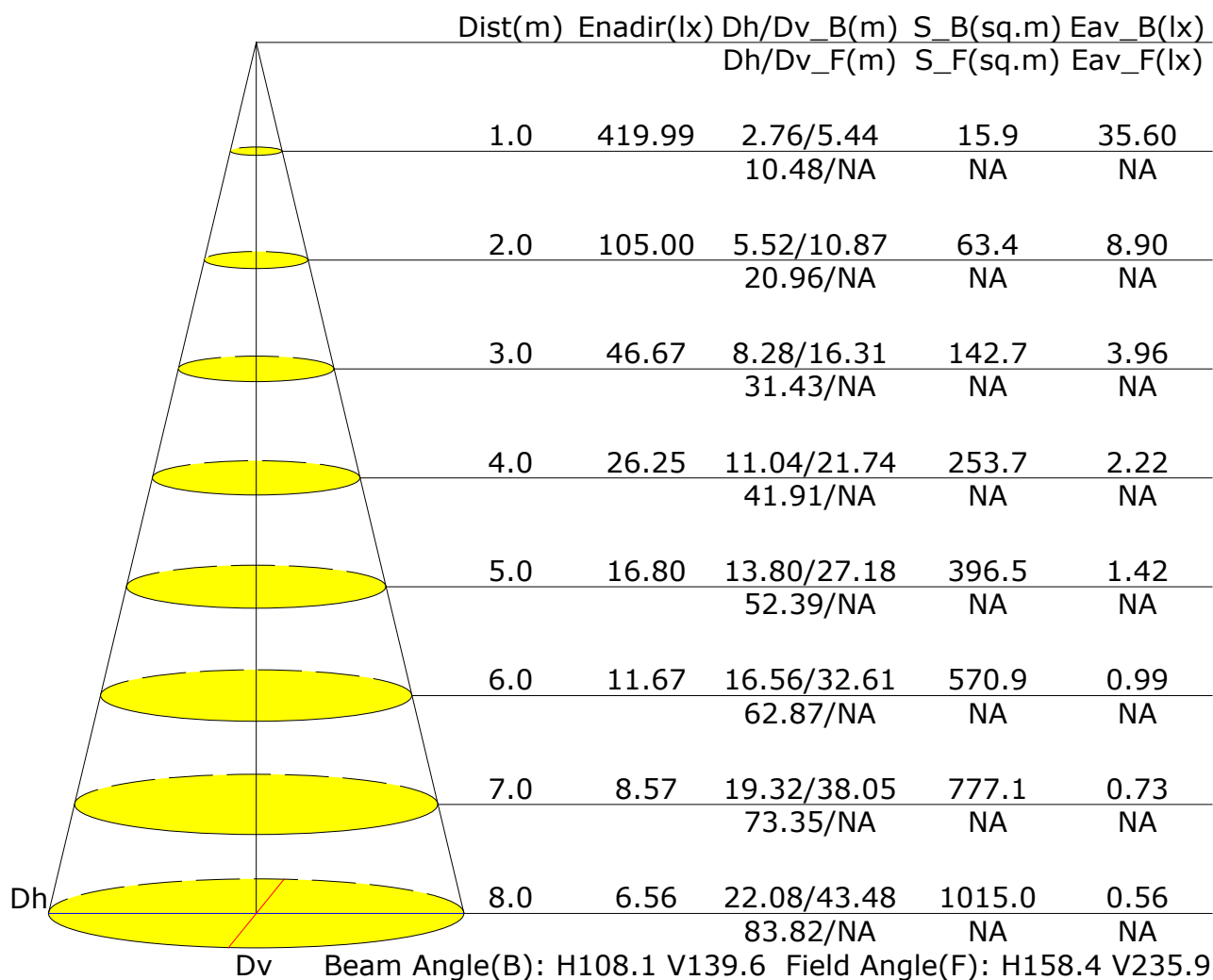
Test Device: GPM-1800B

Distance: 8.038 m

Humidity:

Inspector:

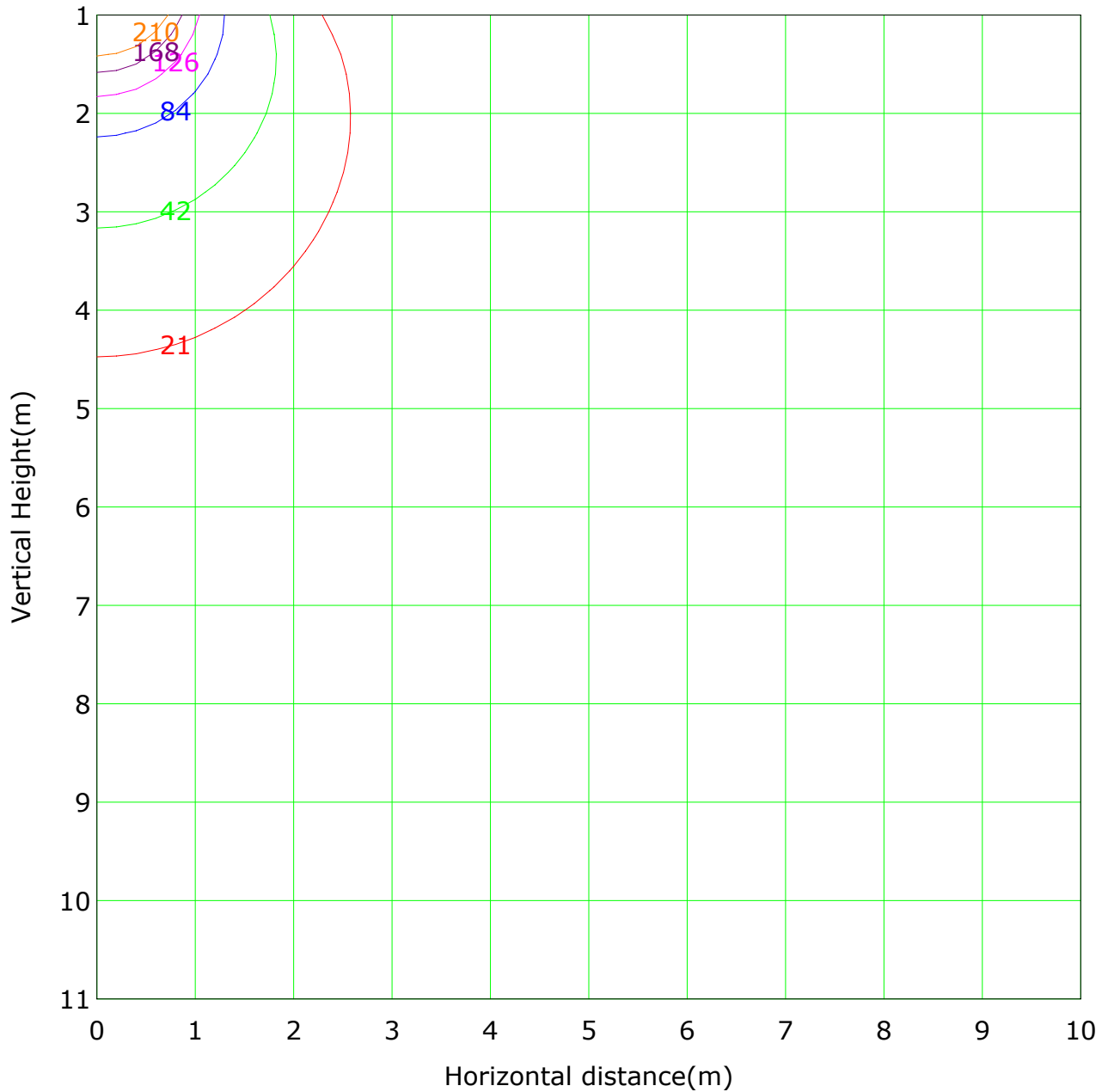
Illuminance at a Distance



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Vertical IsoLux Plot



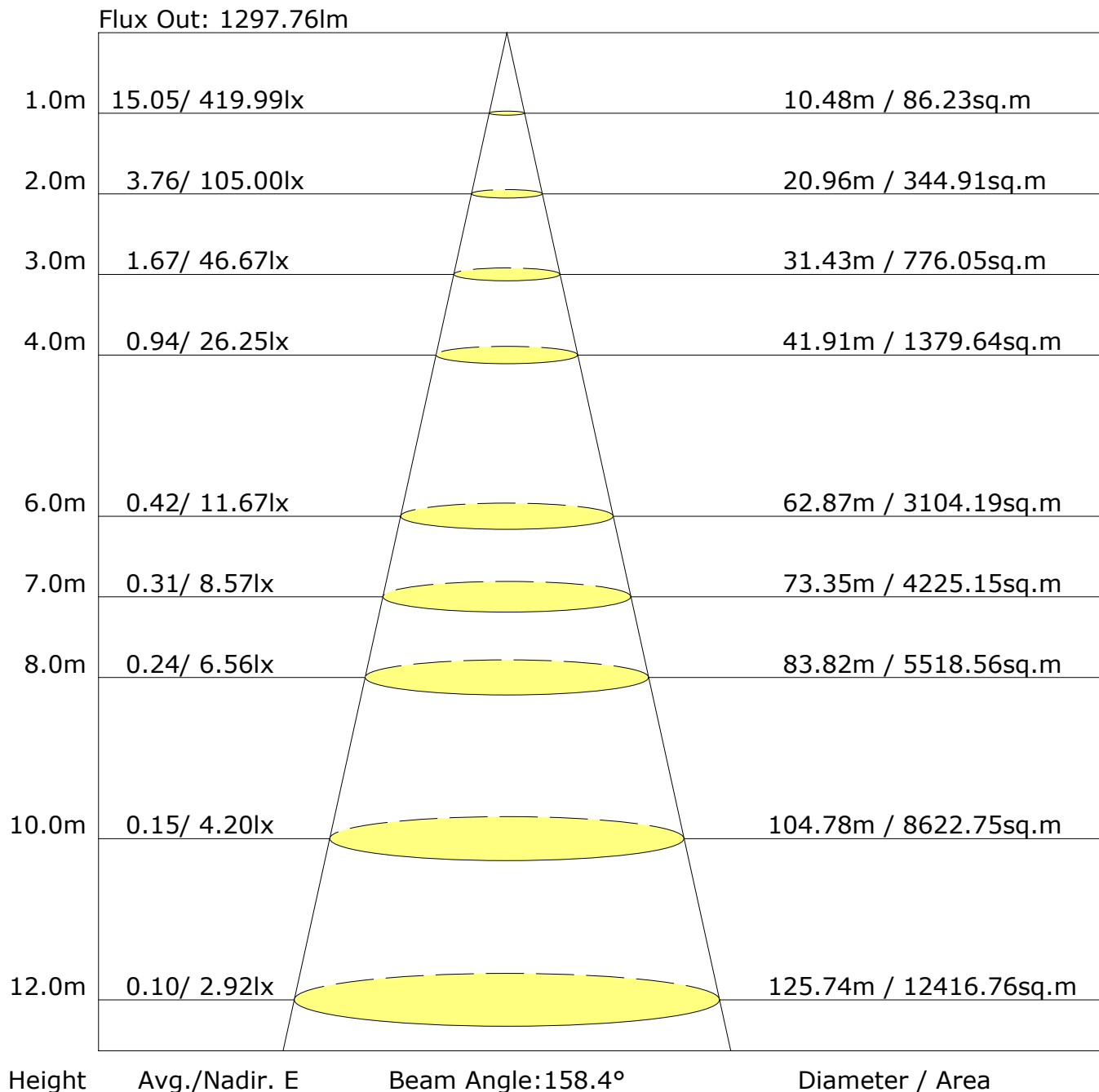
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 420.0 lx

— (5%): 21.0 lx	— (10%): 42.0 lx
— (20%): 84.0 lx	— (30%): 126.0 lx
— (40%): 168.0 lx	— (50%): 210.0 lx
— (100%): 420.0 lx	— (150%): 630.0 lx

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.038 m
Humidity:
Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.50									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.53	0.61	0.68	0.73	0.80	0.85	0.88	0.93	0.96	
	0.30		0.45	0.52	0.60	0.65	0.73	0.78	0.82	0.88	0.92	
	0.20		0.39	0.46	0.54	0.59	0.67	0.73	0.77	0.84	0.88	
0.50	0.50	0.20	0.50	0.57	0.64	0.68	0.75	0.79	0.83	0.87	0.90	
	0.30		0.43	0.50	0.57	0.62	0.69	0.74	0.78	0.83	0.87	
	0.20		0.38	0.45	0.52	0.57	0.64	0.70	0.74	0.79	0.83	
0.30	0.50	0.20	0.48	0.54	0.60	0.64	0.70	0.75	0.77	0.82	0.84	
	0.30		0.42	0.48	0.55	0.59	0.66	0.70	0.74	0.78	0.81	
	0.20		0.37	0.43	0.50	0.55	0.62	0.66	0.70	0.75	0.79	
0.00	0.00	0.00	0.34	0.40	0.46	0.50	0.56	0.61	0.64	0.69	0.72	
Rating:0W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 8.038 m

Humidity:

Inspector:

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.50									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	1.00	0.86	0.74	0.66	0.54	0.46	0.40	0.32	0.27	
	0.30		0.83	0.74	0.65	0.58	0.49	0.42	0.37	0.30	0.25	
	0.20		0.71	0.64	0.58	0.52	0.45	0.39	0.34	0.28	0.24	
0.50	0.50	0.20	0.94	0.81	0.70	0.62	0.51	0.46	0.37	0.30	0.25	
	0.30		0.80	0.70	0.62	0.55	0.46	0.40	0.35	0.28	0.24	
	0.20		0.69	0.62	0.55	0.50	0.43	0.37	0.33	0.27	0.23	
0.30	0.50	0.20	0.89	0.76	0.66	0.58	0.48	0.40	0.35	0.28	0.24	
	0.30		0.76	0.67	0.59	0.53	0.44	0.38	0.33	0.27	0.23	
	0.20		0.67	0.60	0.53	0.48	0.41	0.35	0.31	0.26	0.22	
0.00	0.00	0.00	0.55	0.50	0.44	0.39	0.33	0.29	0.25	0.21	0.17	
Rating:0W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 8.038 m

Humidity:

Inspector:

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.50									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.27	0.28	0.29	0.30	0.31	0.31	0.32	0.32	0.33	
	0.30		0.20	0.22	0.23	0.24	0.25	0.27	0.27	0.29	0.29	
	0.20		0.15	0.17	0.18	0.19	0.21	0.22	0.24	0.25	0.26	
0.50	0.50	0.20	0.26	0.27	0.28	0.29	0.30	0.30	0.30	0.31	0.31	
	0.30		0.20	0.21	0.22	0.23	0.25	0.26	0.26	0.28	0.28	
	0.20		0.15	0.16	0.18	0.19	0.21	0.22	0.23	0.25	0.26	
0.30	0.50	0.20	0.25	0.27	0.27	0.28	0.29	0.29	0.29	0.30	0.30	
	0.30		0.19	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.27	
	0.20		0.15	0.16	0.17	0.18	0.20	0.21	0.22	0.24	0.25	
0.00	0.00	0.00	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	
Rating:0W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 8.038 m

Humidity:

Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G0.0	420.0	419.1	418.3	417.8	416.3	414.5	420.0	419.1	418.3	417.8
G1.0	420.0	418.4	417.3	416.6	415.4	414.4	419.8	419.8	419.2	418.7
G2.0	419.4	417.5	415.9	415.4	414.5	413.9	419.6	420.2	420.1	419.7
G3.0	419.1	416.4	414.6	414.0	413.5	413.4	419.3	420.3	420.9	420.4
G4.0	418.6	415.2	412.9	412.4	412.2	412.6	418.6	420.5	421.5	421.1
G5.0	417.8	413.9	411.4	410.9	411.0	412.0	417.8	420.4	422.0	421.7
G6.0	416.6	412.3	409.6	409.1	409.5	410.9	417.0	420.3	422.2	422.1
G7.0	415.4	410.7	407.7	407.3	408.0	409.8	416.0	419.7	422.3	422.3
G8.0	414.0	408.9	405.7	405.3	406.3	408.4	414.9	419.2	422.4	422.5
G9.0	412.7	406.8	403.6	403.3	404.5	406.9	413.2	418.5	422.4	422.7
G10.0	411.1	404.8	401.3	401.1	402.6	405.5	411.7	417.6	422.1	422.7
G11.0	409.1	402.5	399.0	399.0	400.6	403.7	410.0	416.6	421.8	422.5
G12.0	407.1	400.0	396.7	396.8	398.4	401.8	408.1	415.5	421.4	422.2
G13.0	405.1	397.6	394.1	394.4	396.2	399.6	405.9	414.2	420.7	421.7
G14.0	402.8	394.9	391.5	391.8	393.8	397.5	403.7	412.8	420.0	421.3
G15.0	400.0	391.9	388.6	389.4	391.3	395.2	401.3	411.2	419.1	420.7
G16.0	397.6	389.0	385.8	386.7	388.6	392.5	398.8	409.2	418.0	419.8
G17.0	394.9	385.9	382.9	384.2	386.1	390.0	396.2	407.3	417.0	418.9
G18.0	392.1	382.6	379.7	381.1	383.4	387.2	393.2	405.3	415.9	418.0
G19.0	388.8	379.1	376.8	378.3	380.6	384.4	390.1	402.8	414.4	416.8
G20.0	385.7	375.6	373.5	375.4	377.5	381.1	387.1	400.4	412.7	415.5
G21.0	382.4	372.0	370.1	372.3	374.5	378.0	383.7	398.0	411.0	414.0
G22.0	379.0	368.4	366.8	369.2	371.2	374.8	380.2	395.4	409.2	412.7
G23.0	375.1	364.4	363.1	365.8	368.1	371.4	376.6	392.3	407.2	411.1
G24.0	371.5	360.4	359.7	362.5	364.8	367.9	372.9	389.5	405.1	409.3
G25.0	367.6	356.5	356.0	359.2	361.2	364.1	369.0	386.5	403.0	407.5
G26.0	363.7	352.4	352.2	355.9	357.8	360.5	365.0	383.3	400.9	405.8
G27.0	359.5	348.2	348.5	352.5	354.3	356.6	361.0	379.6	398.5	403.8
G28.0	355.0	343.7	344.5	348.8	350.5	352.5	356.4	376.2	395.8	401.8
G29.0	350.8	339.4	340.6	345.3	346.8	348.5	351.9	372.6	393.3	399.2
G30.0	346.3	334.9	336.6	341.7	343.1	344.1	347.5	369.1	390.6	397.2
G31.0	341.7	330.2	332.5	338.1	339.1	339.8	342.6	364.9	387.8	394.9
G32.0	337.1	325.6	328.1	334.2	335.3	335.3	338.0	361.1	384.7	392.1
G33.0	332.1	320.6	324.1	330.5	331.3	331.0	333.1	357.0	381.6	389.5
G34.0	327.2	315.8	320.0	326.6	327.3	326.3	328.3	352.8	378.6	386.8
G35.0	322.2	310.9	315.6	322.8	323.2	321.5	323.0	348.4	375.2	384.1
G36.0	317.0	305.9	311.4	319.0	318.7	316.6	317.8	343.8	371.9	380.9

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 8.038 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G37.0	311.9	300.9	306.8	314.7	314.6	311.9	312.4	339.3	368.5	378.0
G38.0	306.5	295.6	302.5	310.9	310.5	307.1	307.1	334.8	365.0	375.0
G39.0	301.2	290.4	297.9	306.8	306.1	301.9	301.4	329.9	361.5	371.9
G40.0	295.7	285.1	293.5	302.9	301.9	297.0	295.9	325.3	357.6	368.7
G41.0	290.3	280.0	289.0	298.4	297.2	291.6	290.2	320.4	353.9	365.2
G42.0	284.5	274.2	284.3	294.4	292.9	286.6	284.6	315.3	350.1	361.9
G43.0	278.8	268.9	279.7	290.2	288.4	281.3	278.5	310.3	345.9	358.5
G44.0	273.2	263.5	275.1	286.0	283.9	275.9	272.6	305.3	341.9	355.0
G45.0	267.5	258.1	270.5	281.8	279.4	270.6	266.1	299.8	338.0	351.3
G46.0	261.3	252.5	265.9	277.5	275.0	265.3	260.1	294.6	333.9	347.8
G47.0	255.4	247.0	261.3	273.0	270.0	259.6	254.1	289.4	329.5	343.8
G48.0	249.5	241.6	256.4	268.8	265.4	254.2	247.8	283.9	325.3	340.0
G49.0	243.2	235.6	251.8	264.6	260.9	248.7	241.6	278.5	321.0	336.2
G50.0	237.2	230.1	247.2	260.4	256.2	243.1	234.9	272.9	316.7	332.3
G51.0	231.1	224.6	242.5	256.1	251.6	237.4	228.6	267.5	312.0	328.1
G52.0	224.5	218.8	237.8	251.8	247.1	231.9	222.1	261.7	307.7	324.3
G53.0	218.3	213.3	233.3	247.2	242.5	226.4	215.7	256.2	303.2	320.2
G54.0	212.1	207.4	228.3	243.0	237.6	220.5	208.7	250.4	298.9	316.1
G55.0	205.7	201.8	223.8	238.8	233.0	214.9	202.0	244.6	294.0	311.9
G56.0	199.4	196.3	219.1	234.5	228.4	209.4	195.5	239.0	289.4	307.6
G57.0	192.6	190.6	214.6	230.3	223.9	203.4	188.4	233.2	285.0	303.4
G58.0	186.1	185.1	210.1	225.7	219.0	197.8	181.7	227.5	280.1	299.0
G59.0	179.8	179.5	205.2	221.5	214.4	192.3	174.8	221.5	275.5	294.8
G60.0	173.0	173.6	200.7	217.3	209.9	186.7	168.1	215.8	270.8	290.3
G61.0	166.4	168.2	196.3	213.0	205.3	181.1	160.8	210.0	265.8	285.8
G62.0	159.9	162.7	191.7	208.8	200.8	175.6	154.0	203.9	261.1	281.5
G63.0	152.9	157.3	187.3	204.4	196.0	169.7	147.0	198.3	256.5	277.0
G64.0	146.4	151.9	182.7	200.2	191.6	164.3	139.7	192.4	251.8	272.6
G65.0	139.6	146.3	178.4	196.1	187.3	158.9	132.9	186.8	246.8	268.2
G66.0	133.0	141.1	174.1	191.9	182.9	153.4	125.8	180.8	242.2	263.9
G67.0	126.0	135.7	169.8	187.9	178.5	148.2	118.9	175.3	237.4	259.3
G68.0	119.3	130.7	165.3	183.7	174.0	142.6	111.7	169.6	232.5	254.8
G69.0	112.6	125.3	161.1	179.7	169.7	137.4	104.6	163.8	227.9	250.3
G70.0	106.0	120.3	157.0	175.5	165.4	132.2	97.7	158.2	223.1	245.6
G71.0	99.4	115.4	152.9	171.6	161.2	127.1	90.5	152.7	218.4	241.3
G72.0	92.9	110.6	148.8	167.7	157.1	122.1	83.7	147.4	213.5	236.7
G73.0	85.8	105.7	144.9	163.9	153.1	117.2	77.0	142.0	209.0	232.2

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 8.038 m

Humidity:

Inspector:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G74.0	79.4	101.1	140.6	159.9	148.7	112.0	70.1	136.4	204.3	227.8
G75.0	72.9	96.2	136.7	156.0	144.8	107.3	63.6	131.3	199.9	223.1
G76.0	66.6	91.8	132.9	152.1	140.7	102.6	56.9	126.1	195.0	218.6
G77.0	60.0	87.4	129.2	148.4	136.9	98.2	50.4	120.8	190.6	214.2
G78.0	54.0	83.2	125.5	144.6	132.8	93.4	44.3	116.0	186.0	209.6
G79.0	47.9	79.1	121.6	141.1	129.1	89.2	38.1	111.2	181.6	205.3
G80.0	42.1	74.9	118.1	137.4	125.4	85.0	32.6	106.6	177.0	201.0
G81.0	36.4	71.1	114.5	133.7	121.7	80.8	26.9	101.7	172.6	196.5
G82.0	31.0	67.3	111.1	130.2	118.0	76.8	21.6	97.3	168.3	192.2
G83.0	25.5	63.7	107.7	126.8	114.5	73.0	17.0	93.0	163.9	187.9
G84.0	20.7	60.2	104.4	123.4	110.9	69.0	12.6	88.5	159.7	183.7
G85.0	16.3	56.9	101.1	120.0	107.5	65.4	8.9	84.5	155.4	179.2
G86.0	12.2	53.6	97.7	116.9	104.2	62.0	5.9	80.5	151.3	175.1
G87.0	8.7	50.6	94.6	113.3	100.8	58.7	3.6	76.9	147.1	170.9
G88.0	5.7	47.6	91.5	110.2	97.6	55.5	1.8	73.0	143.0	167.0
G89.0	3.6	44.9	88.6	107.1	94.4	52.4	1.1	69.6	139.1	162.7
G90.0	2.1	42.4	85.7	104.1	91.4	49.5	0.8	66.0	135.1	158.7
G91.0	1.4	39.8	82.6	101.2	88.2	46.7	0.8	62.8	131.2	154.8
G92.0	1.2	37.5	79.9	98.0	85.3	44.1	0.9	59.8	127.3	150.6
G93.0	1.2	35.2	77.2	95.1	82.5	41.6	1.0	56.8	123.5	146.7
G94.0	1.2	33.1	74.6	92.3	79.6	39.1	0.9	53.8	119.8	142.9
G95.0	1.2	31.1	71.8	89.5	76.9	36.8	1.0	51.1	116.1	138.8
G96.0	1.3	29.3	69.3	86.8	74.3	34.7	1.1	48.5	112.6	135.1
G97.0	1.4	27.6	66.8	84.1	71.7	32.7	1.1	45.9	109.0	131.3
G98.0	1.4	25.9	64.5	81.3	69.0	30.7	1.1	43.2	105.6	127.7
G99.0	1.4	23.3	62.2	78.7	66.5	28.9	1.1	39.8	102.1	123.8
G100.0	1.5	20.5	60.0	76.2	64.1	26.9	1.3	35.9	98.6	120.3
G101.0	1.5	18.4	57.5	73.8	61.9	24.2	1.1	32.5	95.4	116.8
G102.0	1.5	17.0	55.5	71.5	59.4	21.8	1.2	30.2	91.9	113.0
G103.0	1.5	16.0	53.4	68.9	57.2	19.6	1.4	28.9	88.6	109.5
G104.0	1.6	14.6	51.0	66.5	55.1	18.6	1.2	27.1	83.1	106.1
G105.0	1.7	13.5	41.0	64.4	50.8	17.6	1.3	25.1	67.0	102.4
G106.0	1.7	12.8	36.7	62.1	40.2	16.3	1.5	23.2	60.4	98.2
G107.0	1.7	12.2	34.5	53.9	36.8	15.0	1.5	21.6	57.7	85.9
G108.0	1.8	11.4	32.8	45.5	34.7	13.6	1.4	20.1	54.8	74.6
G109.0	1.8	10.8	31.6	42.8	32.9	12.5	1.5	19.1	53.1	71.4
G110.0	1.9	10.0	33.5	41.2	32.0	11.6	1.6	18.3	55.2	69.3

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 8.038 m

Humidity:

Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G111.0	2.0	9.3	33.6	39.7	34.8	11.0	1.6	17.6	57.3	67.2
G112.0	2.0	8.4	32.7	38.4	34.7	10.3	1.5	16.9	56.0	65.5
G113.0	2.0	7.9	31.6	40.6	33.5	9.5	1.6	16.4	54.1	66.2
G114.0	2.0	7.5	30.4	41.5	32.2	9.0	1.8	16.0	52.1	68.7
G115.0	2.1	7.2	29.1	41.2	31.0	8.6	1.7	15.6	50.2	67.5
G116.0	2.2	6.9	27.7	40.0	29.7	8.3	1.7	15.1	48.0	65.7
G117.0	2.1	6.7	26.5	38.4	28.4	7.9	1.9	14.5	46.2	63.1
G118.0	2.2	6.2	25.4	36.6	26.9	7.4	1.8	14.1	44.3	60.7
G119.0	2.2	6.0	24.2	35.1	25.6	7.1	1.8	13.6	42.3	58.1
G120.0	2.3	6.0	23.0	33.6	24.5	6.8	2.0	13.0	40.5	55.8
G121.0	2.4	5.9	21.9	32.0	23.2	6.6	2.0	12.6	38.8	53.5
G122.0	2.4	5.8	20.6	30.6	22.0	6.4	2.0	12.3	37.0	51.3
G123.0	2.3	5.7	19.5	29.1	20.8	6.2	2.0	11.9	35.2	49.0
G124.0	2.3	5.4	18.4	27.6	19.4	5.8	2.1	11.4	33.5	46.9
G125.0	2.5	5.1	17.3	26.2	18.4	5.6	2.1	11.1	32.1	44.8
G126.0	2.6	5.2	15.6	24.8	17.4	5.5	2.1	10.8	30.3	42.8
G127.0	2.5	5.1	14.4	23.4	16.1	5.1	2.1	10.5	29.0	40.7
G128.0	2.5	4.9	13.8	22.1	15.1	5.0	2.3	10.1	27.9	38.8
G129.0	2.7	4.6	13.2	20.9	14.3	4.8	2.2	9.9	26.6	36.9
G130.0	2.7	4.4	12.6	19.7	13.6	4.7	2.3	9.6	25.6	35.1
G131.0	2.7	4.3	11.9	18.4	12.9	4.7	2.4	9.2	24.6	33.5
G132.0	2.6	4.2	11.4	17.3	12.4	4.5	2.4	8.9	23.8	32.0
G133.0	2.6	4.2	11.0	15.9	11.6	4.3	2.4	8.8	22.7	30.6
G134.0	2.8	3.9	10.6	14.7	11.1	4.1	2.4	8.6	21.8	29.4
G135.0	2.9	3.8	10.2	13.9	10.6	4.0	2.5	8.1	21.0	28.1
G136.0	2.8	3.8	9.6	13.4	10.2	4.0	2.5	7.9	20.2	27.0
G137.0	2.8	3.8	9.2	12.9	9.7	3.9	2.5	7.8	19.2	25.9
G138.0	2.8	3.7	8.8	12.3	9.1	3.7	2.6	7.5	18.5	24.9
G139.0	3.0	3.6	8.4	11.7	8.8	3.7	2.6	7.3	17.8	23.6
G140.0	3.0	3.6	8.0	11.2	8.4	3.7	2.7	7.3	16.9	22.6
G141.0	2.9	3.6	7.7	10.7	8.0	3.6	2.7	7.0	16.3	21.7
G142.0	2.9	3.5	7.3	10.1	7.5	3.4	2.7	6.8	15.7	20.8
G143.0	3.0	3.5	6.9	9.6	7.2	3.4	2.8	6.8	15.0	19.7
G144.0	3.1	3.4	6.5	9.2	6.9	3.3	2.8	6.7	14.3	18.8
G145.0	3.2	3.4	6.0	8.6	6.7	3.4	2.8	6.4	13.6	18.0
G146.0	3.0	3.4	5.8	8.2	6.3	3.3	2.8	6.3	13.1	17.2
G147.0	3.1	3.4	5.6	7.8	6.0	3.3	2.8	6.1	12.6	16.3

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 8.038 m

Humidity:

Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G148.0	3.1	3.4	5.4	7.5	5.8	3.2	2.9	6.2	12.0	15.6
G149.0	3.3	3.3	5.1	7.1	5.6	3.2	2.9	5.9	11.6	14.9
G150.0	3.3	3.3	4.9	6.7	5.4	3.2	3.0	5.8	11.1	14.0
G151.0	3.2	3.3	4.7	6.3	5.1	3.2	2.9	5.6	10.5	13.4
G152.0	3.3	3.3	4.5	6.1	4.9	3.0	2.9	5.5	10.1	12.7
G153.0	3.4	3.3	4.4	5.9	4.8	3.1	3.0	5.4	9.7	11.9
G154.0	3.4	3.4	4.3	5.5	4.6	3.1	3.1	5.4	9.2	11.3
G155.0	3.4	3.3	4.1	5.2	4.4	3.1	3.2	5.3	8.8	10.7
G156.0	3.4	3.3	4.0	4.9	4.2	3.2	3.2	5.2	8.4	10.3
G157.0	3.4	3.3	4.0	4.8	4.1	3.1	3.1	5.0	8.0	9.7
G158.0	3.5	3.4	3.8	4.6	4.0	3.2	3.1	4.9	7.7	9.1
G159.0	3.5	3.5	3.8	4.3	3.8	3.2	3.3	4.8	7.3	8.6
G160.0	3.5	3.4	3.7	4.1	3.7	3.2	3.3	4.8	7.0	8.3
G161.0	3.5	3.4	3.6	4.1	3.6	3.2	3.2	4.6	6.7	7.7
G162.0	3.5	3.4	3.6	3.8	3.5	3.2	3.3	4.6	6.4	7.4
G163.0	3.6	3.5	3.6	3.7	3.5	3.3	3.4	4.5	6.1	6.9
G164.0	3.6	3.5	3.5	3.7	3.4	3.3	3.4	4.5	5.9	6.7
G165.0	3.6	3.5	3.6	3.5	3.5	3.3	3.5	4.4	5.7	6.2
G166.0	3.6	3.6	3.6	3.5	3.5	3.3	3.3	4.3	5.4	6.0
G167.0	3.7	3.4	3.5	3.5	3.5	3.4	3.5	4.3	5.3	5.8
G168.0	3.7	3.5	3.6	3.6	3.5	3.4	3.5	4.2	5.1	5.4
G169.0	3.7	3.5	3.5	3.6	3.5	3.4	3.6	4.1	4.9	5.3
G170.0	3.7	3.6	3.5	3.6	3.5	3.4	3.6	4.0	4.7	5.0
G171.0	3.7	3.5	3.5	3.6	3.5	3.5	3.6	4.0	4.6	4.7
G172.0	3.7	3.5	3.6	3.6	3.5	3.5	3.5	4.0	4.3	4.5
G173.0	3.7	3.5	3.6	3.5	3.6	3.4	3.7	3.9	4.3	4.5
G174.0	3.7	3.5	3.6	3.5	3.5	3.5	3.7	3.8	4.2	4.3
G175.0	3.6	3.6	3.6	3.5	3.5	3.4	3.5	3.9	4.0	4.1
G176.0	3.6	3.6	3.6	3.5	3.5	3.4	3.7	3.7	4.0	4.0
G177.0	3.7	3.5	3.6	3.6	3.6	3.5	3.6	3.8	3.8	3.7
G178.0	3.6	3.6	3.6	3.5	3.5	3.4	3.7	3.8	3.6	3.6
G179.0	3.7	3.5	3.6	3.6	3.6	3.4	3.6	3.7	3.6	3.6
G180.0	3.7	3.5	3.5	3.5	3.5	3.5	3.7	3.5	3.5	3.6

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 8.038 m

Humidity:

Inspector:

Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	416.3	414.5	420.0							
G1.0	416.9	414.6	420.0							
G2.0	417.5	414.5	419.4							
G3.0	417.9	414.3	419.1							
G4.0	418.1	413.8	418.6							
G5.0	418.2	413.2	417.8							
G6.0	418.4	412.6	416.6							
G7.0	418.3	411.7	415.4							
G8.0	417.9	410.5	414.0							
G9.0	417.7	409.4	412.7							
G10.0	417.2	408.2	411.1							
G11.0	416.5	406.8	409.1							
G12.0	415.8	405.0	407.1							
G13.0	414.9	403.2	405.1							
G14.0	414.0	401.3	402.8							
G15.0	412.8	399.3	400.0							
G16.0	411.6	397.0	397.6							
G17.0	410.0	394.4	394.9							
G18.0	408.5	392.1	392.1							
G19.0	406.9	389.7	388.8							
G20.0	405.0	386.9	385.7							
G21.0	403.0	383.7	382.4							
G22.0	401.0	380.6	379.0							
G23.0	398.9	377.7	375.1							
G24.0	396.5	374.2	371.5							
G25.0	394.2	370.9	367.6							
G26.0	391.8	367.5	363.7							
G27.0	389.4	363.8	359.5							
G28.0	386.7	360.3	355.0							
G29.0	383.7	356.3	350.8							
G30.0	380.8	352.3	346.3							
G31.0	377.7	348.3	341.7							
G32.0	374.6	344.1	337.1							
G33.0	371.5	340.0	332.1							
G34.0	368.3	335.6	327.2							
G35.0	365.0	331.2	322.2							
G36.0	361.5	326.5	317.0							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 8.038 m

Humidity:

Inspector:

Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	358.2	322.0	311.9							
G38.0	354.6	317.3	306.5							
G39.0	351.0	312.5	301.2							
G40.0	347.4	307.9	295.7							
G41.0	343.3	303.1	290.3							
G42.0	339.5	298.0	284.5							
G43.0	335.6	293.0	278.8							
G44.0	331.3	287.9	273.2							
G45.0	327.3	282.7	267.5							
G46.0	323.3	277.4	261.3							
G47.0	318.9	272.3	255.4							
G48.0	314.8	267.1	249.5							
G49.0	310.5	261.6	243.2							
G50.0	306.3	256.4	237.2							
G51.0	301.9	250.9	231.1							
G52.0	297.3	245.6	224.5							
G53.0	292.9	240.1	218.3							
G54.0	288.5	234.8	212.1							
G55.0	283.8	229.3	205.7							
G56.0	279.4	223.6	199.4							
G57.0	274.9	218.2	192.6							
G58.0	270.1	212.7	186.1							
G59.0	265.7	207.4	179.8							
G60.0	261.1	201.6	173.0							
G61.0	256.6	196.3	166.4							
G62.0	251.9	190.8	159.9							
G63.0	247.3	185.5	152.9							
G64.0	242.8	179.8	146.4							
G65.0	238.2	174.6	139.6							
G66.0	233.5	169.3	133.0							
G67.0	228.9	163.6	126.0							
G68.0	224.4	158.4	119.3							
G69.0	219.7	153.4	112.6							
G70.0	215.2	148.3	106.0							
G71.0	210.6	142.9	99.4							
G72.0	206.1	137.9	92.9							
G73.0	201.6	133.0	85.8							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 8.038 m

Humidity:

Inspector:

Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	197.2	128.2	79.4							
G75.0	192.8	123.2	72.9							
G76.0	188.5	118.6	66.6							
G77.0	183.9	113.9	60.0							
G78.0	179.7	109.6	54.0							
G79.0	175.3	104.9	47.9							
G80.0	171.0	100.7	42.1							
G81.0	166.8	96.3	36.4							
G82.0	162.7	92.3	31.0							
G83.0	158.4	88.3	25.5							
G84.0	154.4	84.6	20.7							
G85.0	150.5	80.9	16.3							
G86.0	146.4	77.1	12.2							
G87.0	142.4	73.7	8.7							
G88.0	138.7	70.4	5.7							
G89.0	134.8	67.0	3.6							
G90.0	130.9	64.0	2.1							
G91.0	127.3	61.0	1.4							
G92.0	123.6	58.0	1.2							
G93.0	120.1	55.2	1.2							
G94.0	116.4	52.5	1.2							
G95.0	112.9	49.8	1.2							
G96.0	109.5	47.4	1.3							
G97.0	106.0	44.4	1.4							
G98.0	102.7	38.1	1.4							
G99.0	99.4	33.1	1.4							
G100.0	96.1	29.5	1.5							
G101.0	92.9	27.1	1.5							
G102.0	89.6	26.2	1.5							
G103.0	86.3	24.8	1.5							
G104.0	79.6	23.6	1.6							
G105.0	63.7	22.7	1.7							
G106.0	58.7	21.6	1.7							
G107.0	56.0	20.6	1.7							
G108.0	53.5	19.9	1.8							
G109.0	52.3	19.3	1.8							
G110.0	54.6	18.6	1.9							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 8.038 m

Humidity:

Inspector:

Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	56.4	18.0	2.0							
G112.0	54.9	17.4	2.0							
G113.0	53.2	17.0	2.0							
G114.0	51.2	16.5	2.0							
G115.0	49.3	15.9	2.1							
G116.0	47.3	15.5	2.2							
G117.0	45.4	15.0	2.1							
G118.0	43.5	14.4	2.2							
G119.0	41.5	14.0	2.2							
G120.0	39.8	13.5	2.3							
G121.0	38.1	13.2	2.4							
G122.0	36.3	12.6	2.4							
G123.0	34.7	12.3	2.3							
G124.0	33.0	11.9	2.3							
G125.0	31.5	11.6	2.5							
G126.0	30.1	10.9	2.6							
G127.0	28.7	10.5	2.5							
G128.0	27.6	10.0	2.5							
G129.0	26.6	9.4	2.7							
G130.0	25.5	9.1	2.7							
G131.0	24.5	8.7	2.7							
G132.0	23.7	8.1	2.6							
G133.0	22.8	7.8	2.6							
G134.0	21.8	7.5	2.8							
G135.0	21.0	7.1	2.9							
G136.0	20.2	6.8	2.8							
G137.0	19.5	6.6	2.8							
G138.0	18.6	6.6	2.8							
G139.0	17.9	6.3	3.0							
G140.0	17.2	6.3	3.0							
G141.0	16.3	6.3	2.9							
G142.0	15.4	6.2	2.9							
G143.0	14.5	6.0	3.0							
G144.0	13.6	5.9	3.1							
G145.0	12.7	5.8	3.2							
G146.0	11.9	5.7	3.0							
G147.0	11.3	5.4	3.1							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 8.038 m

Humidity:

Inspector:

Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	10.6	5.3	3.1							
G149.0	9.9	5.4	3.3							
G150.0	9.4	5.1	3.3							
G151.0	8.7	5.2	3.2							
G152.0	8.2	5.2	3.3							
G153.0	7.7	5.1	3.4							
G154.0	7.4	4.9	3.4							
G155.0	7.1	4.8	3.4							
G156.0	6.7	5.0	3.4							
G157.0	6.5	4.9	3.4							
G158.0	6.4	4.7	3.5							
G159.0	6.2	4.6	3.5							
G160.0	5.8	4.7	3.5							
G161.0	5.6	4.6	3.5							
G162.0	5.6	4.4	3.5							
G163.0	5.4	4.4	3.6							
G164.0	5.1	4.4	3.6							
G165.0	5.1	4.2	3.6							
G166.0	4.9	4.2	3.6							
G167.0	4.5	4.2	3.7							
G168.0	4.7	4.0	3.7							
G169.0	4.5	4.2	3.7							
G170.0	4.3	4.1	3.7							
G171.0	4.4	3.9	3.7							
G172.0	4.3	3.9	3.7							
G173.0	4.1	4.0	3.7							
G174.0	3.9	3.9	3.7							
G175.0	3.9	3.9	3.6							
G176.0	3.8	3.6	3.6							
G177.0	3.8	3.6	3.7							
G178.0	3.7	3.5	3.6							
G179.0	3.5	3.6	3.7							
G180.0	3.5	3.5	3.7							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 8.038 m

Humidity:

Inspector: