

Report No.:

Test Time: 2014-08-14 20:40

## Luminaire Property

Luminaire Category:

Luminaire Description: MR16-3000K-100度 Voltage: 12.1 V  
Current: 0.530 A Power: 4.20 W  
Power Factor: 0.647

## Photometric Results

CIE Class: Direct

Measurement Flux: 252.9 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(15%,30%,50%,75%): H134.3,H117.3,H101.3,H77.6

Vertical Diffuse Angle(15%,30%,50%,75%): V135.2,V117.3,V101.7,V78.1

Luminaire Efficacy Rating (LER): 60

Max. Intensity: 107.17 cd

Total Rated Lamp Lumens: 252.9 lm

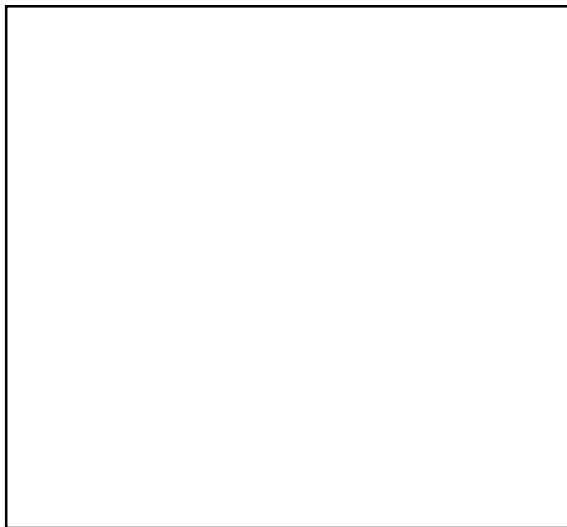
Efficiency: 100%

Upward Ratio: 0%

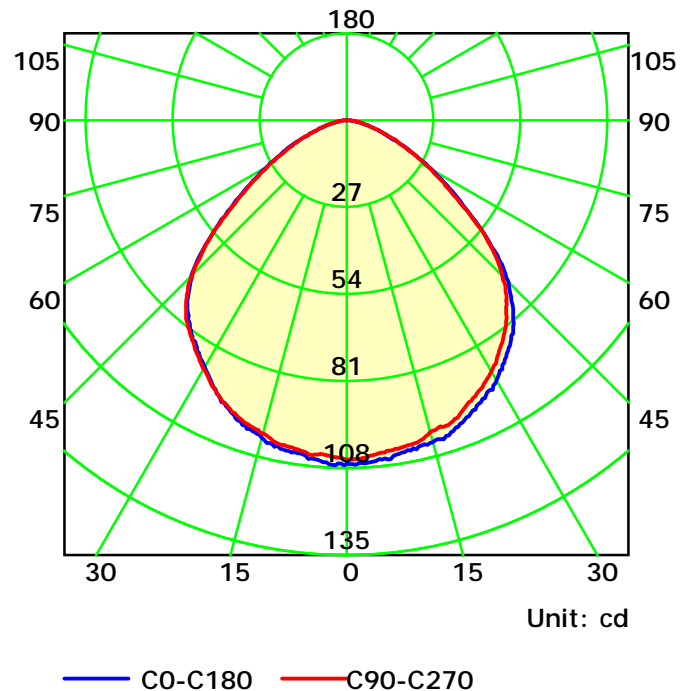
Central Intensity: 106.62 cd

Pos of Max. Intensity: H180 V2

Picture Of Luminaire



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:0.5

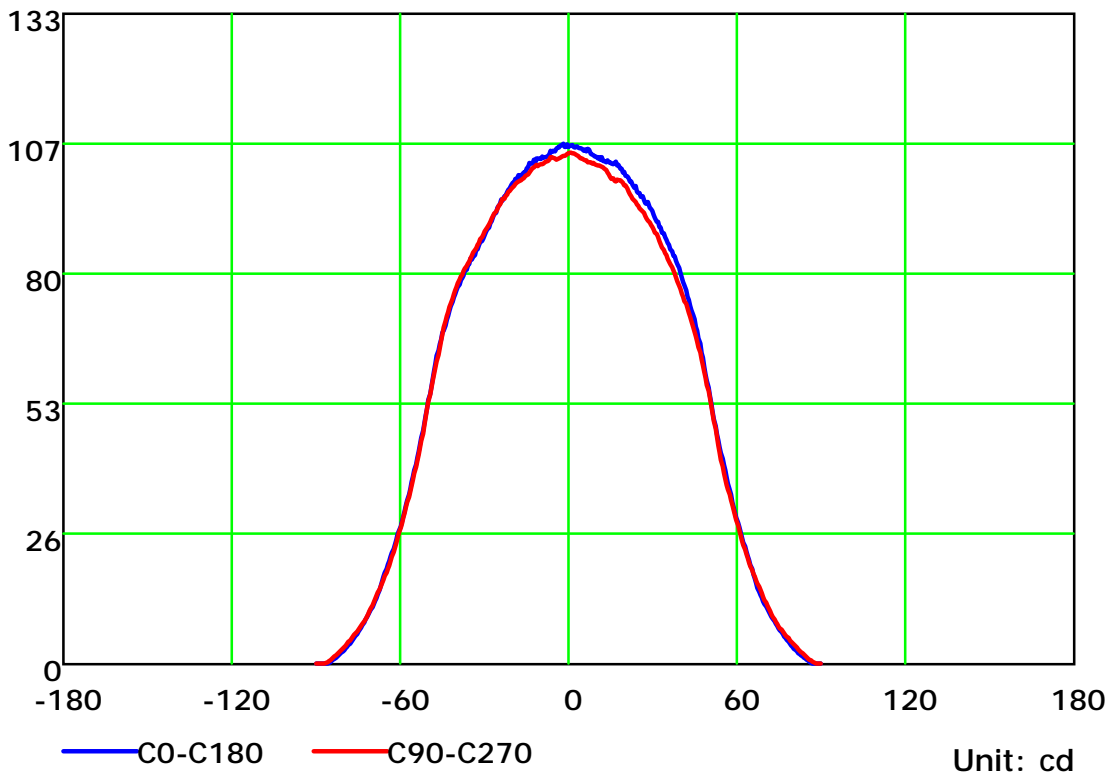
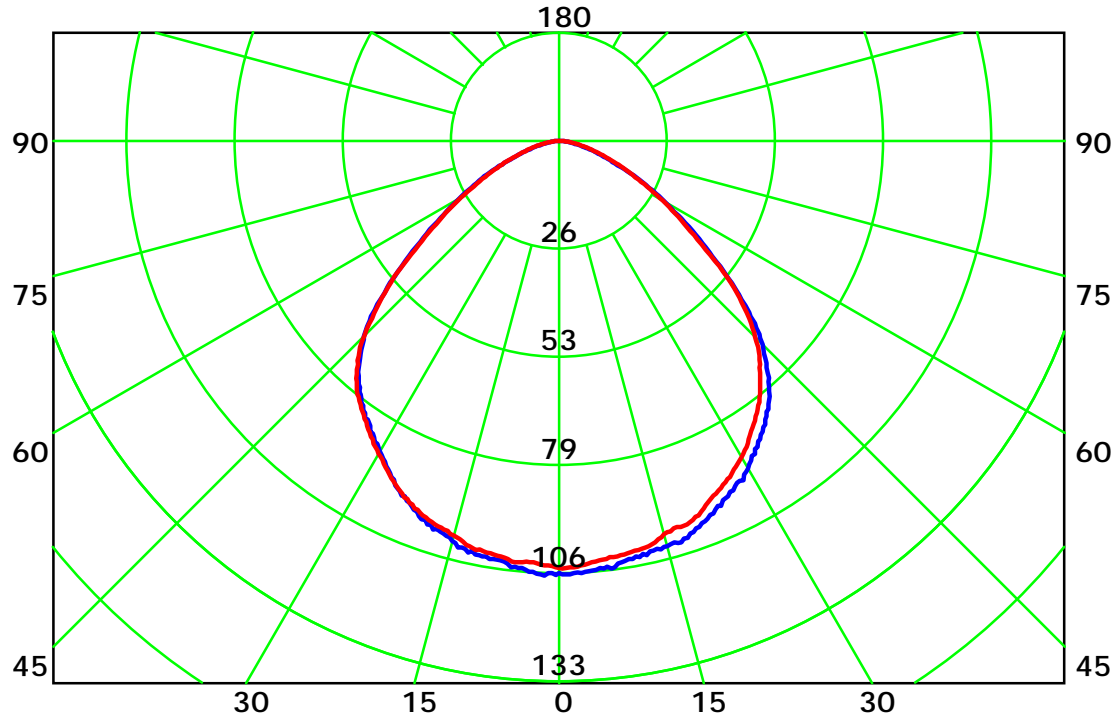
Test Device: GPM-1200A

Distance: 1.000 m

Humidity:

Inspector:

## Luminous Intensity Distribution Curve

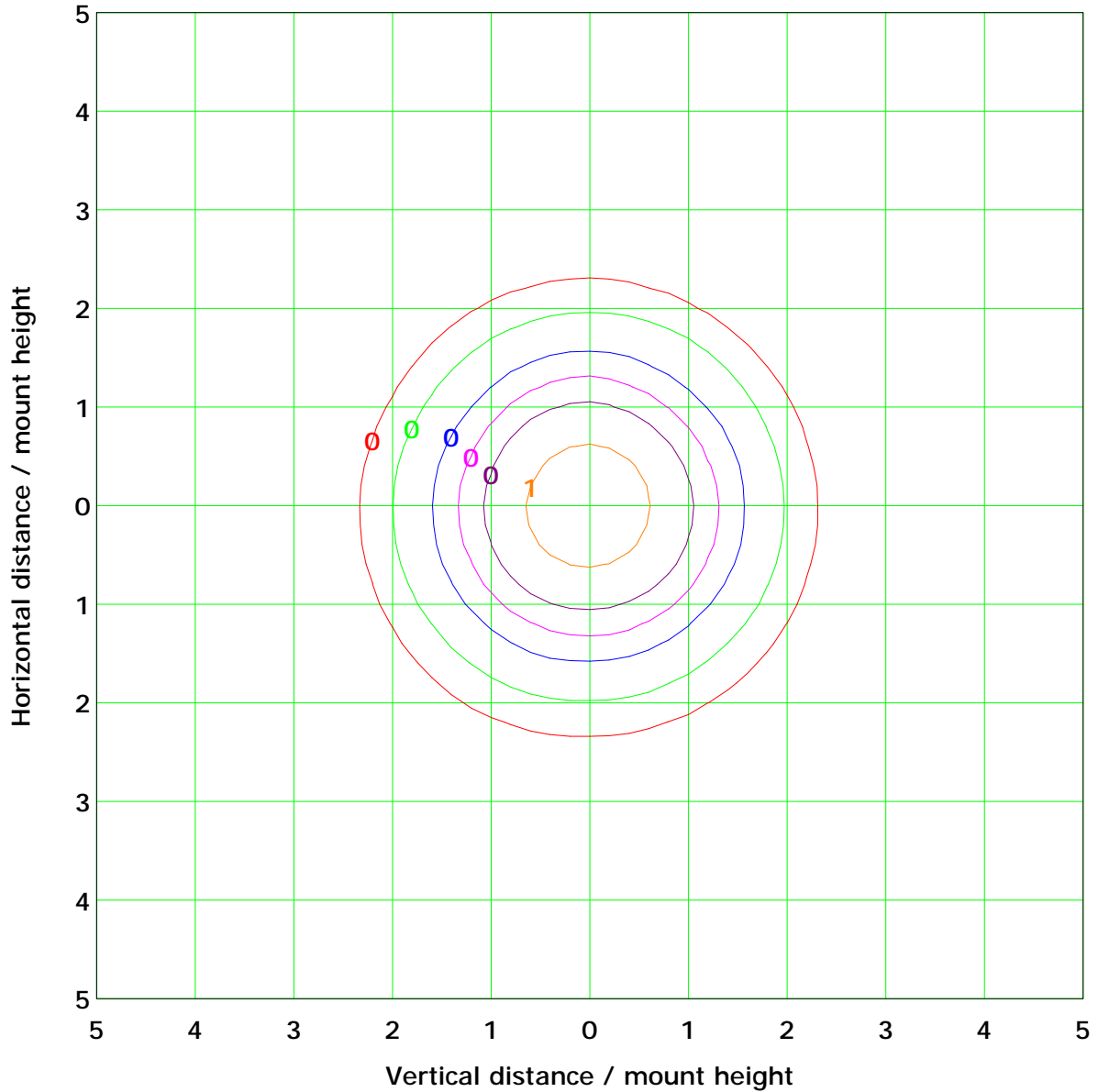


C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:0.5  
 Test Device: GPM-1200A  
 Distance: 1.000 m  
 Humidity:  
 Inspector:

Unit: cd

### IsoLux Plot

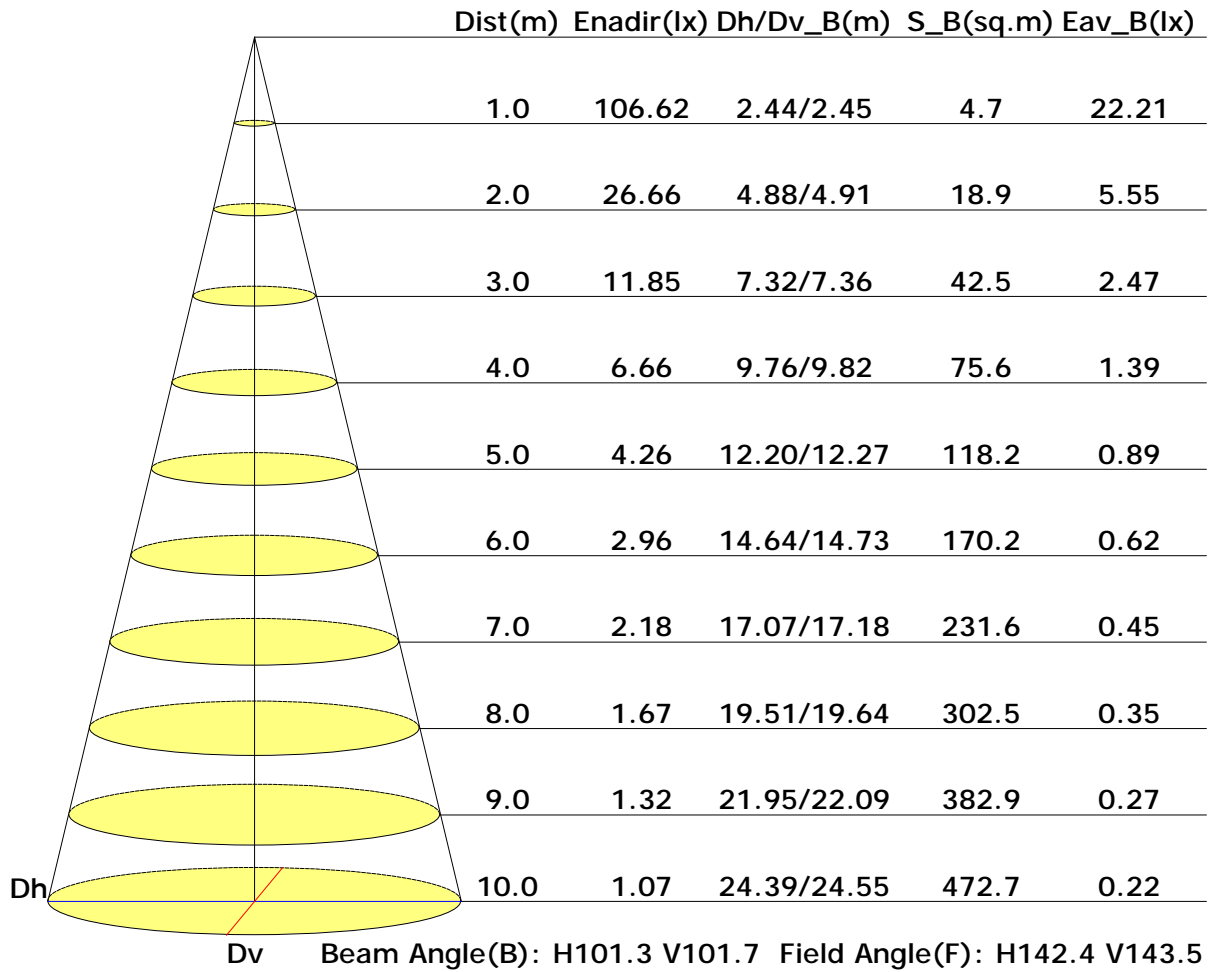


Mounting Height: 10.0m		Max Lux(100%): 1.1 lx	
— ( 1%):	0.0 lx	— ( 2%):	0.0 lx
— ( 5%):	0.1 lx	— (10%):	0.1 lx
— (20%):	0.2 lx	— (50%):	0.5 lx
— (100%):	1.1 lx	— (200%):	2.1 lx
— (300%):	3.2 lx	— (500%):	5.4 lx

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

Gamma Plane (°):0.0-90.0:0.5  
 Test Device: GPM-1200A  
 Distance: 1.000 m  
 Humidity:  
 Inspector:

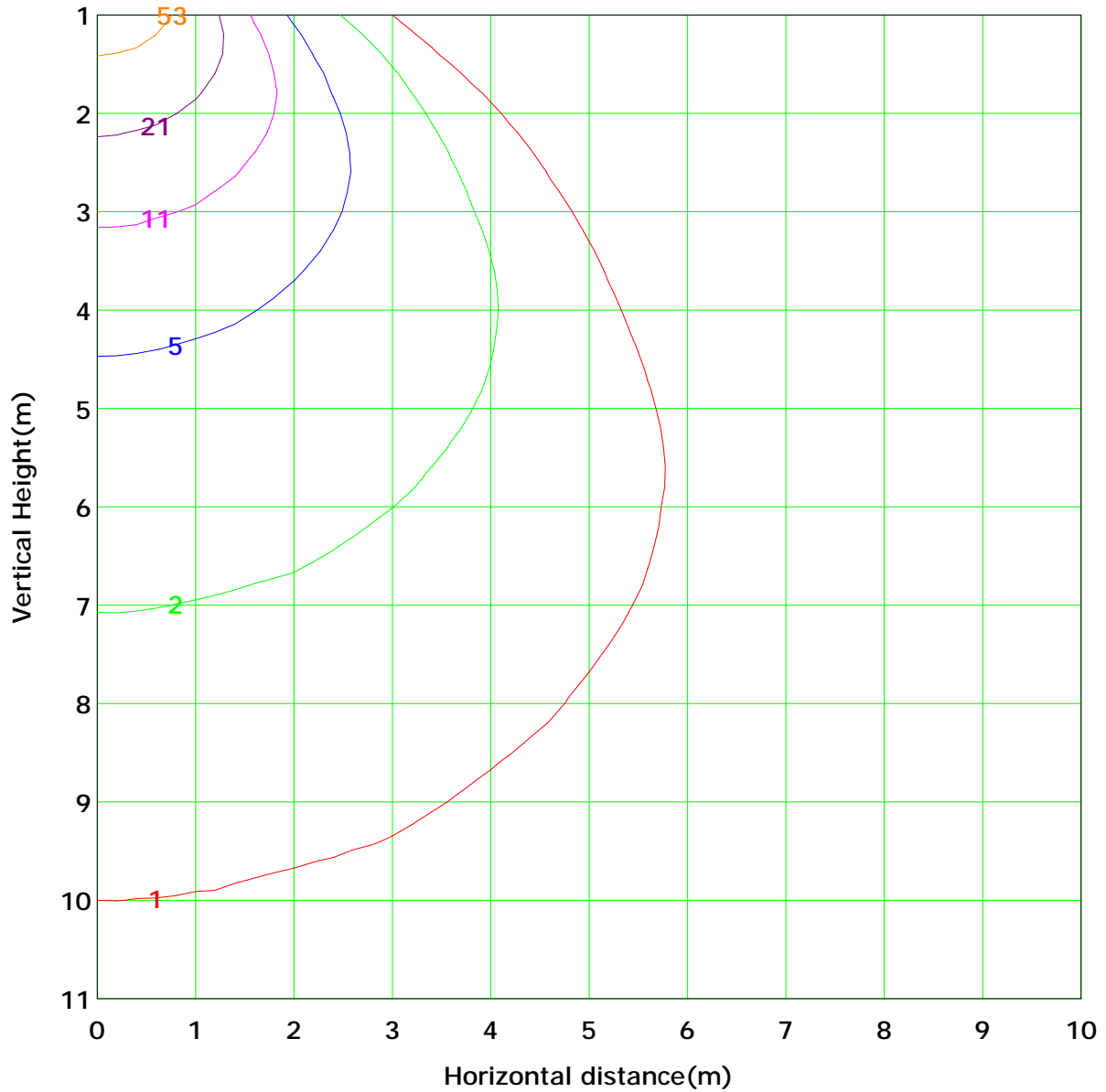
## Illuminance at a Distance



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

Gamma Plane (°):0.0-90.0:0.5  
 Test Device: GPM-1200A  
 Distance: 1.000 m  
 Humidity:  
 Inspector:

## Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 106.6 lx
( 1%): 1.1 lx	( 2%): 2.1 lx	
( 5%): 5.3 lx	( 10%): 10.7 lx	
( 20%): 21.3 lx	( 50%): 53.3 lx	
(100%): 106.6 lx	(200%): 213.2 lx	
(300%): 319.9 lx	(500%): 533.1 lx	

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

Gamma Plane (°):0.0-90.0:0.5  
 Test Device: GPM-1200A  
 Distance: 1.000 m  
 Humidity:  
 Inspector:

## Zonal Lumen

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-0.5	105.6	0.0	0.0	0.01	0.01
0.5-1.0	105.6	0.1	0.1	0.03	0.04
1.0-1.5	105.5	0.1	0.2	0.05	0.09
1.5-2.0	105.4	0.2	0.4	0.07	0.16
2.0-2.5	105.3	0.2	0.6	0.09	0.25
2.5-3.0	105.1	0.3	0.9	0.11	0.36
3.0-3.5	105.0	0.3	1.2	0.13	0.49
3.5-4.0	104.8	0.4	1.6	0.15	0.64
4.0-4.5	104.7	0.4	2.0	0.17	0.80
4.5-5.0	104.6	0.5	2.5	0.19	0.99
5.0-5.5	104.5	0.5	3.0	0.21	1.20
5.5-6.0	104.4	0.6	3.6	0.23	1.43
6.0-6.5	104.4	0.6	4.2	0.25	1.67
6.5-7.0	104.3	0.7	4.9	0.27	1.94
7.0-7.5	104.2	0.7	5.6	0.29	2.22
7.5-8.0	104.0	0.8	6.4	0.30	2.53
8.0-8.5	103.8	0.8	7.2	0.32	2.85
8.5-9.0	103.8	0.9	8.1	0.34	3.19
9.0-9.5	103.7	0.9	9.0	0.36	3.55
9.5-10.0	103.5	1.0	9.9	0.38	3.93
10.0-10.5	103.3	1.0	11.0	0.40	4.33
10.5-11.0	103.1	1.1	12.0	0.42	4.75
11.0-11.5	103.0	1.1	13.1	0.44	5.19
11.5-12.0	102.7	1.1	14.3	0.45	5.64
12.0-12.5	102.5	1.2	15.5	0.47	6.11
12.5-13.0	102.3	1.2	16.7	0.49	6.60
13.0-13.5	102.1	1.3	18.0	0.51	7.11
13.5-14.0	101.8	1.3	19.3	0.52	7.63
14.0-14.5	101.6	1.4	20.7	0.54	8.18
14.5-15.0	101.4	1.4	22.1	0.56	8.74
15.0-15.5	101.1	1.5	23.5	0.58	9.31
15.5-16.0	100.8	1.5	25.0	0.59	9.91
16.0-16.5	100.6	1.5	26.6	0.61	10.52
16.5-17.0	100.4	1.6	28.2	0.63	11.14
17.0-17.5	100.2	1.6	29.8	0.64	11.79
17.5-18.0	99.9	1.7	31.5	0.66	12.45

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

Gamma Plane (°):0.0-90.0:0.5  
 Test Device: GPM-1200A  
 Distance: 1.000 m  
 Humidity:  
 Inspector:

## Zonal Lumen (Continue 1)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
18.0-18.5	99.7	1.7	33.2	0.68	13.12
18.5-19.0	99.3	1.8	34.9	0.69	13.82
19.0-19.5	99.0	1.8	36.7	0.71	14.52
19.5-20.0	98.7	1.8	38.6	0.72	15.25
20.0-20.5	98.4	1.9	40.4	0.74	15.99
20.5-21.0	98.0	1.9	42.3	0.75	16.74
21.0-21.5	97.6	1.9	44.3	0.77	17.51
21.5-22.0	97.2	2.0	46.2	0.78	18.29
22.0-22.5	96.8	2.0	48.3	0.80	19.08
22.5-23.0	96.5	2.0	50.3	0.81	19.89
23.0-23.5	96.1	2.1	52.4	0.82	20.71
23.5-24.0	95.7	2.1	54.5	0.84	21.55
24.0-24.5	95.3	2.1	56.6	0.85	22.40
24.5-25.0	94.9	2.2	58.8	0.86	23.26
25.0-25.5	94.4	2.2	61.0	0.87	24.13
25.5-26.0	94.0	2.2	63.3	0.89	25.02
26.0-26.5	93.5	2.3	65.5	0.90	25.91
26.5-27.0	93.1	2.3	67.8	0.91	26.82
27.0-27.5	92.6	2.3	70.1	0.92	27.74
27.5-28.0	92.1	2.4	72.5	0.93	28.67
28.0-28.5	91.6	2.4	74.9	0.94	29.61
28.5-29.0	91.1	2.4	77.3	0.95	30.56
29.0-29.5	90.6	2.4	79.7	0.96	31.52
29.5-30.0	90.1	2.5	82.2	0.97	32.49
30.0-30.5	89.5	2.5	84.6	0.98	33.47
30.5-31.0	89.0	2.5	87.1	0.99	34.46
31.0-31.5	88.5	2.5	89.6	1.00	35.45
31.5-32.0	88.0	2.5	92.2	1.00	36.46
32.0-32.5	87.4	2.6	94.7	1.01	37.47
32.5-33.0	86.9	2.6	97.3	1.02	38.49
33.0-33.5	86.3	2.6	99.9	1.03	39.51
33.5-34.0	85.7	2.6	102.5	1.03	40.55
34.0-34.5	85.1	2.6	105.2	1.04	41.59
34.5-35.0	84.6	2.6	107.8	1.05	42.63
35.0-35.5	83.9	2.7	110.4	1.05	43.68
35.5-36.0	83.3	2.7	113.1	1.05	44.74

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

Gamma Plane (°):0.0-90.0:0.5  
 Test Device: GPM-1200A  
 Distance: 1.000 m  
 Humidity:  
 Inspector:

## Zonal Lumen (Continue 2)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-36.5	82.7	2.7	115.8	1.06	45.80
36.5-37.0	82.1	2.7	118.5	1.06	46.86
37.0-37.5	81.4	2.7	121.2	1.07	47.93
37.5-38.0	80.8	2.7	123.9	1.07	49.00
38.0-38.5	80.1	2.7	126.6	1.08	50.08
38.5-39.0	79.5	2.7	129.4	1.08	51.16
39.0-39.5	78.8	2.7	132.1	1.08	52.24
39.5-40.0	78.0	2.7	134.8	1.08	53.32
40.0-40.5	77.3	2.7	137.6	1.08	54.40
40.5-41.0	76.6	2.7	140.3	1.08	55.49
41.0-41.5	75.8	2.7	143.0	1.08	56.57
41.5-42.0	75.0	2.7	145.8	1.08	57.65
42.0-42.5	74.1	2.7	148.5	1.08	58.73
42.5-43.0	73.3	2.7	151.2	1.08	59.81
43.0-43.5	72.3	2.7	154.0	1.07	60.89
43.5-44.0	71.4	2.7	156.7	1.07	61.96
44.0-44.5	70.3	2.7	159.4	1.06	63.02
44.5-45.0	69.3	2.7	162.0	1.06	64.08
45.0-45.5	68.2	2.7	164.7	1.05	65.13
45.5-46.0	67.1	2.6	167.3	1.04	66.17
46.0-46.5	65.8	2.6	169.9	1.03	67.20
46.5-47.0	64.5	2.6	172.5	1.02	68.22
47.0-47.5	63.2	2.5	175.0	1.01	69.23
47.5-48.0	61.8	2.5	177.6	0.99	70.22
48.0-48.5	60.4	2.5	180.0	0.98	71.20
48.5-49.0	59.0	2.4	182.5	0.96	72.16
49.0-49.5	57.6	2.4	184.9	0.95	73.11
49.5-50.0	56.1	2.3	187.2	0.93	74.03
50.0-50.5	54.6	2.3	189.5	0.91	74.94
50.5-51.0	53.0	2.3	191.8	0.89	75.83
51.0-51.5	51.5	2.2	194.0	0.87	76.71
51.5-52.0	49.9	2.1	196.1	0.85	77.56
52.0-52.5	48.3	2.1	198.2	0.83	78.38
52.5-53.0	46.8	2.0	200.2	0.81	79.19
53.0-53.5	45.3	2.0	202.2	0.79	79.98
53.5-54.0	44.0	1.9	204.2	0.77	80.75

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

Gamma Plane (°):0.0-90.0:0.5  
 Test Device: GPM-1200A  
 Distance: 1.000 m  
 Humidity:  
 Inspector:



### Zonal Lumen (Continue 3)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
54.0-54.5	42.6	1.9	206.1	0.75	81.50
54.5-55.0	41.3	1.8	207.9	0.73	82.23
55.0-55.5	40.0	1.8	209.7	0.71	82.94
55.5-56.0	38.8	1.8	211.5	0.70	83.64
56.0-56.5	37.6	1.7	213.2	0.68	84.31
56.5-57.0	36.3	1.7	214.9	0.66	84.97
57.0-57.5	35.2	1.6	216.5	0.64	85.61
57.5-58.0	34.0	1.6	218.1	0.62	86.24
58.0-58.5	32.9	1.5	219.6	0.61	86.85
58.5-59.0	31.8	1.5	221.1	0.59	87.43
59.0-59.5	30.7	1.4	222.5	0.57	88.01
59.5-60.0	29.6	1.4	223.9	0.56	88.56
60.0-60.5	28.6	1.4	225.3	0.54	89.10
60.5-61.0	27.6	1.3	226.6	0.52	89.62
61.0-61.5	26.6	1.3	227.9	0.51	90.13
61.5-62.0	25.6	1.2	229.1	0.49	90.62
62.0-62.5	24.7	1.2	230.3	0.47	91.09
62.5-63.0	23.8	1.2	231.5	0.46	91.55
63.0-63.5	22.9	1.1	232.6	0.44	91.99
63.5-64.0	22.0	1.1	233.7	0.43	92.42
64.0-64.5	21.2	1.0	234.7	0.41	92.84
64.5-65.0	20.3	1.0	235.7	0.40	93.23
65.0-65.5	19.5	1.0	236.7	0.38	93.62
65.5-66.0	18.6	0.9	237.6	0.37	93.99
66.0-66.5	17.8	0.9	238.5	0.35	94.34
66.5-67.0	17.0	0.9	239.4	0.34	94.68
67.0-67.5	16.2	0.8	240.2	0.32	95.00
67.5-68.0	15.4	0.8	241.0	0.31	95.31
68.0-68.5	14.7	0.7	241.7	0.30	95.61
68.5-69.0	14.0	0.7	242.5	0.28	95.89
69.0-69.5	13.3	0.7	243.1	0.27	96.16
69.5-70.0	12.7	0.7	243.8	0.26	96.42
70.0-70.5	12.0	0.6	244.4	0.25	96.66
70.5-71.0	11.4	0.6	245.0	0.23	96.90
71.0-71.5	10.9	0.6	245.6	0.22	97.12
71.5-72.0	10.3	0.5	246.1	0.21	97.33

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

Gamma Plane (°):0.0-90.0:0.5  
 Test Device: GPM-1200A  
 Distance: 1.000 m  
 Humidity:  
 Inspector:

### Zonal Lumen (Continue 4)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-72.5	9.8	0.5	246.6	0.20	97.53
72.5-73.0	9.3	0.5	247.1	0.19	97.73
73.0-73.5	8.8	0.5	247.6	0.18	97.91
73.5-74.0	8.3	0.4	248.0	0.17	98.08
74.0-74.5	7.9	0.4	248.4	0.16	98.25
74.5-75.0	7.4	0.4	248.8	0.16	98.40
75.0-75.5	7.0	0.4	249.2	0.15	98.55
75.5-76.0	6.6	0.4	249.5	0.14	98.69
76.0-76.5	6.2	0.3	249.9	0.13	98.82
76.5-77.0	5.8	0.3	250.2	0.12	98.94
77.0-77.5	5.4	0.3	250.5	0.11	99.05
77.5-78.0	5.1	0.3	250.7	0.11	99.16
78.0-78.5	4.7	0.3	251.0	0.10	99.26
78.5-79.0	4.4	0.2	251.2	0.09	99.35
79.0-79.5	4.0	0.2	251.4	0.09	99.44
79.5-80.0	3.7	0.2	251.6	0.08	99.52
80.0-80.5	3.3	0.2	251.8	0.07	99.59
80.5-81.0	3.0	0.2	252.0	0.06	99.65
81.0-81.5	2.7	0.1	252.1	0.06	99.71
81.5-82.0	2.4	0.1	252.3	0.05	99.76
82.0-82.5	2.1	0.1	252.4	0.05	99.81
82.5-83.0	1.9	0.1	252.5	0.04	99.85
83.0-83.5	1.6	0.1	252.6	0.03	99.89
83.5-84.0	1.4	0.1	252.6	0.03	99.91
84.0-84.5	1.1	0.1	252.7	0.02	99.94
84.5-85.0	0.9	0.1	252.8	0.02	99.96
85.0-85.5	0.7	0.0	252.8	0.02	99.97
85.5-86.0	0.5	0.0	252.8	0.01	99.99
86.0-86.5	0.3	0.0	252.8	0.01	99.99
86.5-87.0	0.2	0.0	252.8	0.00	100.00
87.0-87.5	0.1	0.0	252.9	0.00	100.00
87.5-88.0	0.0	0.0	252.9	0.00	100.00
88.0-88.5	0.0	0.0	252.9	0.00	100.00
88.5-89.0	0.0	0.0	252.9	0.00	100.00
89.0-89.5	0.0	0.0	252.9	0.00	100.00
89.5-90.0	0.0	0.0	252.9	0.00	100.00

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

Gamma Plane (°):0.0-90.0:0.5  
 Test Device: GPM-1200A  
 Distance: 1.000 m  
 Humidity:  
 Inspector: