

Report No.:

Test Time: 2018-1-25 10:47

Luminaire Property

Luminaire Manufacturer:

Voltage: 119.8 V

Power: 113.59 W

Current: 0.947 A

Power Factor: 0.9996

Photometric Results

IES Classification: Type II

Total Rated Lamp Lumens: 13724.5 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 3356.11 cd

Pos of Max. Intensity: H22.5 V69

Longitudinal Classification: Medium

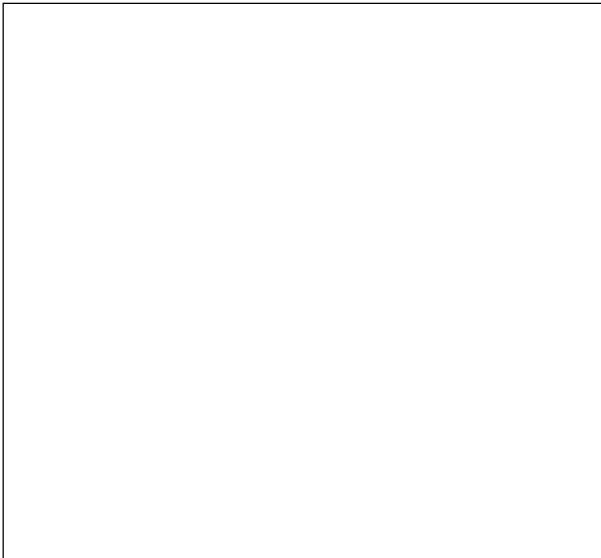
Measurement Flux: 13724.5 lm

Downward Ratio: 99%

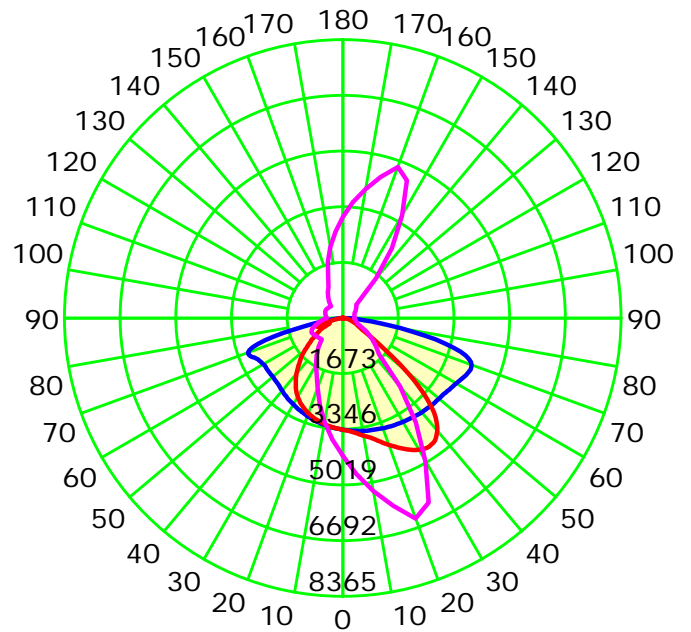
Luminaire Efficacy Rating (LER): 120.82

Max. Intensity: 6692.61 cd

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 121.3°

— C0-C180 — C90-C270 — G69

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature: 19.3 'C

Operator:

Gamma Plane (°):0.0-180.0:1.0

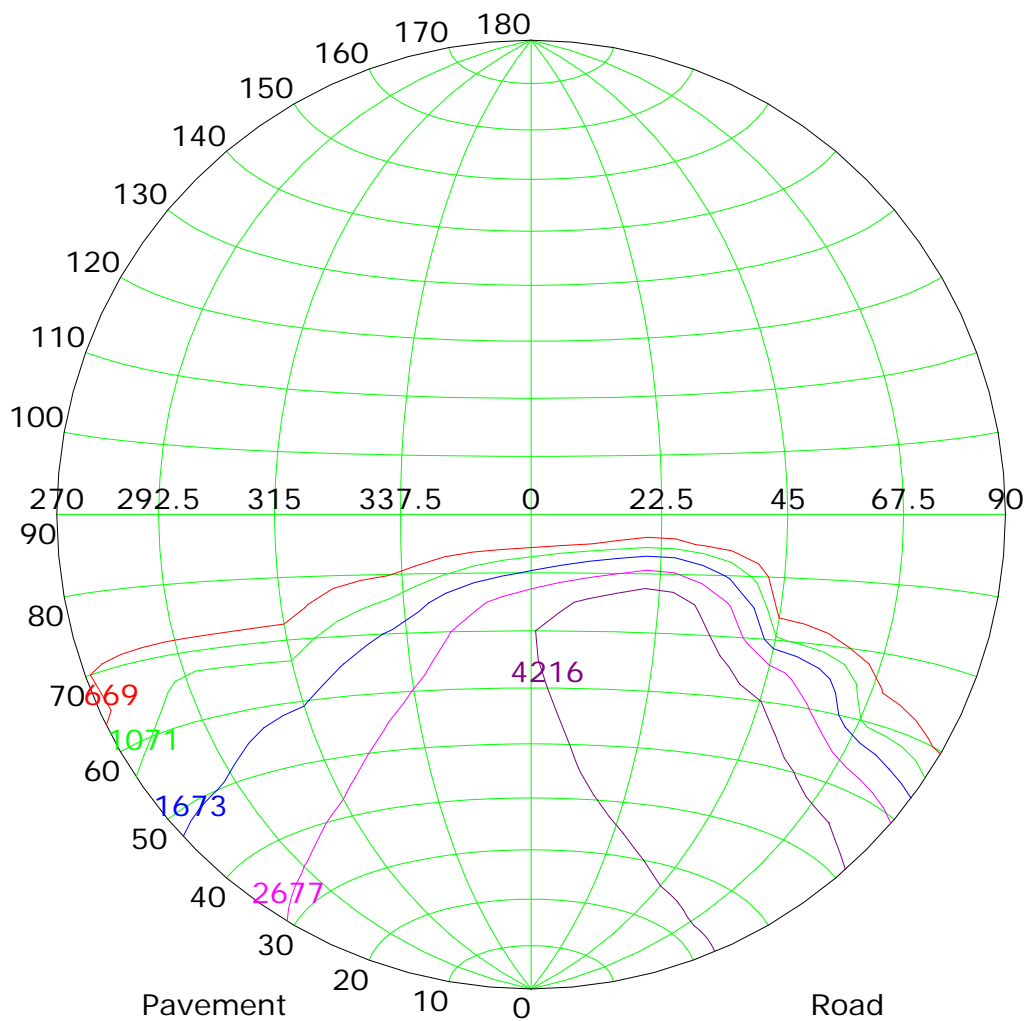
Test Device: GPM-3000

Distance: 1.600 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 6693 cd

(10%): 669 cd	(16%): 1071 cd
(25%): 1673 cd	(40%): 2677 cd
(63%): 4216 cd	(100%): 6693 cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature: 19.3 'C

Operator:

Gamma Plane (°):0.0-180.0:1.0

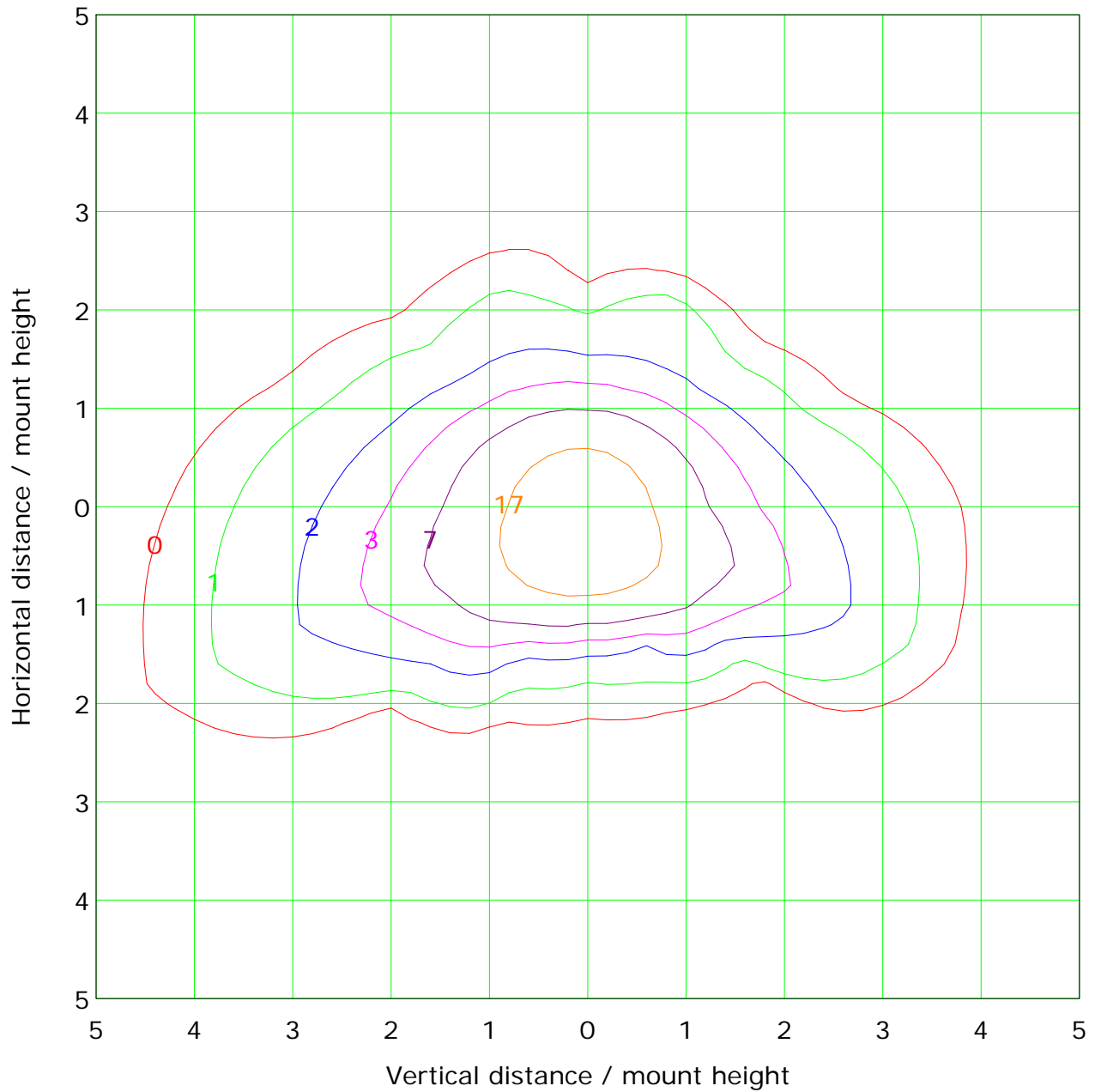
Test Device: GPM-3000

Distance: 1.600 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 34.4 lx

(1%): 0.3 lx	(2%): 0.7 lx
(5%): 1.7 lx	(10%): 3.4 lx
(20%): 6.9 lx	(50%): 17.2 lx
(100%): 34.4 lx	

C Plane (°):0.0-360.0: 22.5

Test Lab:

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Temperature: 19.3 'C

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-3000

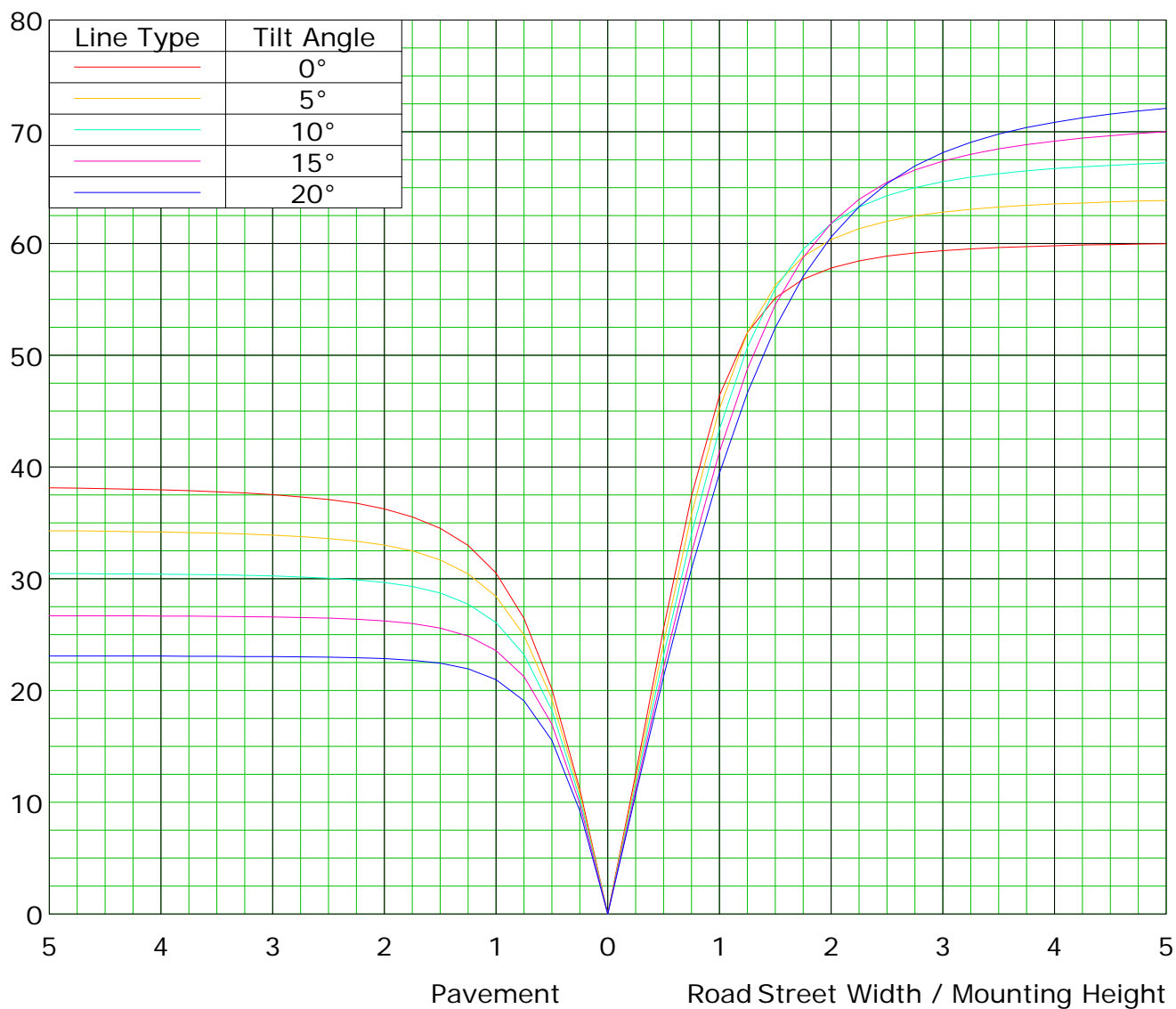
Distance: 1.600 m

Humidity:

Inspector:

Roadway CU Curve

Efficiency(%)



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature: 19.3 'C

Operator:

Gamma Plane (°):0.0-180.0:1.0

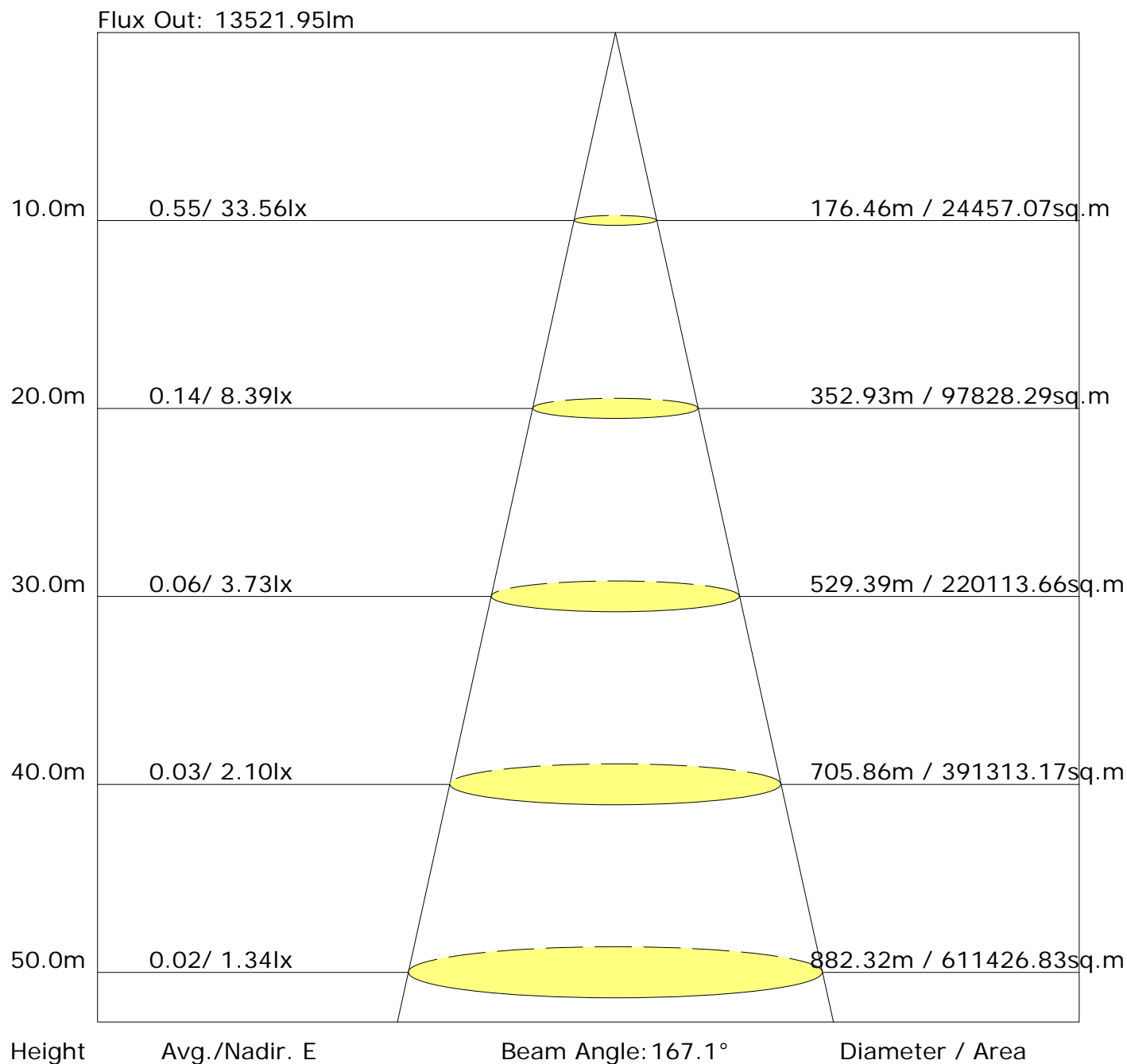
Test Device: GPM-3000

Distance: 1.600 m

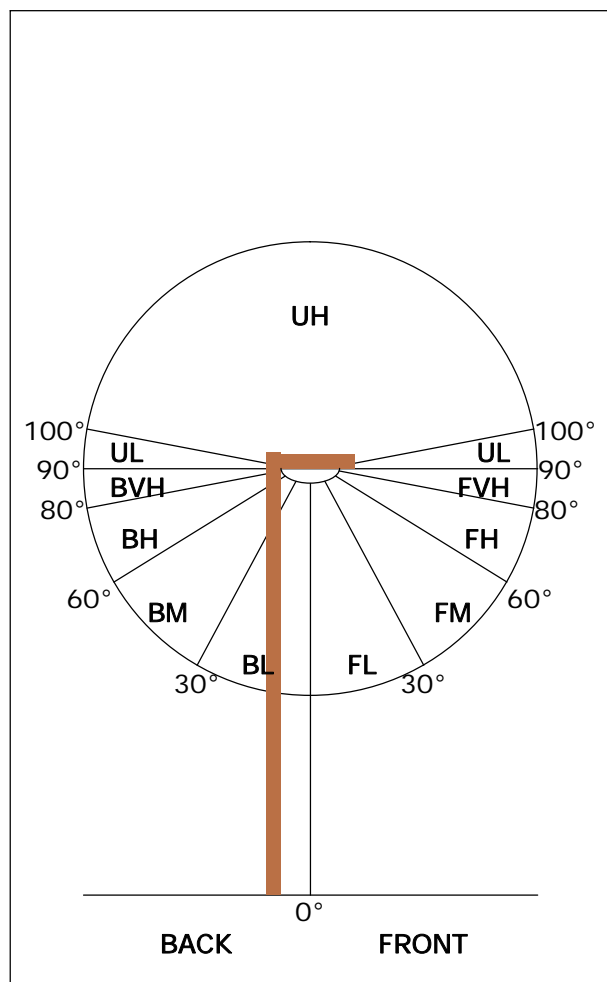
Humidity:

Inspector:

The Average Illuminance Effective Figure



FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	8316	60.6
FL (0°-30°)	1584	11.5
FM (30°-60°)	4457	32.5
FH (60°-80°)	2122	15.5
FVH (80°-90°)	153	1.1
BACK LIGHT	5307	38.7
BL (0°-30°)	1317	9.6
BM (30°-60°)	2693	19.6
BH (60°-80°)	1186	8.6
BVH (80°-90°)	110	0.8
UP LIGHT	101	0.7
UL (90°-100°)	39	0.3
UH (100°-180°)	63	0.5
TRAPPED LIGHT	NA	NA

BUG(Backlight, Uplight, Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I, II, III, IV)	B3 U5 G3
Quadrilateral Symmetrical Luminaire Types (Type V, Area Light)	B3 U5 G2

C Plane (°): 0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature: 19.3 'C
Operator:

Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-3000
Distance: 1.600 m
Humidity:
Inspector:

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	3356.3	3.2	3.2	0.02	0.02
1.0-2.0	3357.3	9.6	12.8	0.07	0.09
2.0-3.0	3358.5	16.1	28.9	0.12	0.21
3.0-4.0	3359.8	22.5	51.4	0.16	0.37
4.0-5.0	3362.2	28.9	80.3	0.21	0.59
5.0-6.0	3365.2	35.4	115.7	0.26	0.84
6.0-7.0	3368.5	41.8	157.5	0.30	1.15
7.0-8.0	3372.3	48.3	205.8	0.35	1.50
8.0-9.0	3376.3	54.7	260.5	0.40	1.90
9.0-10.0	3379.8	61.2	321.7	0.45	2.34
10.0-11.0	3383.0	67.6	389.3	0.49	2.84
11.0-12.0	3386.3	74.0	463.3	0.54	3.38
12.0-13.0	3390.0	80.5	543.8	0.59	3.96
13.0-14.0	3394.9	86.9	630.7	0.63	4.60
14.0-15.0	3400.0	93.4	724.1	0.68	5.28
15.0-16.0	3405.6	99.8	823.9	0.73	6.00
16.0-17.0	3412.8	106.3	930.1	0.77	6.78
17.0-18.0	3420.8	112.8	1043.0	0.82	7.60
18.0-19.0	3428.3	119.3	1162.2	0.87	8.47
19.0-20.0	3435.9	125.8	1288.0	0.92	9.38
20.0-21.0	3445.0	132.3	1420.3	0.96	10.35
21.0-22.0	3453.9	138.8	1559.1	1.01	11.36
22.0-23.0	3461.6	145.3	1704.4	1.06	12.42
23.0-24.0	3469.5	151.7	1856.1	1.11	13.52
24.0-25.0	3478.1	158.2	2014.3	1.15	14.68
25.0-26.0	3486.7	164.6	2178.9	1.20	15.88
26.0-27.0	3495.5	171.0	2349.9	1.25	17.12
27.0-28.0	3504.0	177.4	2527.4	1.29	18.41
28.0-29.0	3511.6	183.7	2711.1	1.34	19.75
29.0-30.0	3518.1	190.0	2901.1	1.38	21.14
30.0-31.0	3523.6	196.1	3097.2	1.43	22.57
31.0-32.0	3528.2	202.2	3299.4	1.47	24.04
32.0-33.0	3531.7	208.1	3507.4	1.52	25.56
33.0-34.0	3533.7	213.9	3721.3	1.56	27.11
34.0-35.0	3532.7	219.4	3940.8	1.60	28.71
35.0-36.0	3529.3	224.8	4165.5	1.64	30.35

C Plane (°):0.0-360.0: 22.5

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Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-3000

Distance: 1.600 m

Humidity:

Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	3523.6	229.8	4395.3	1.67	32.03
37.0-38.0	3514.5	234.6	4630.0	1.71	33.74
38.0-39.0	3502.3	239.1	4869.1	1.74	35.48
39.0-40.0	3486.9	243.2	5112.3	1.77	37.25
40.0-41.0	3467.2	246.9	5359.2	1.80	39.05
41.0-42.0	3443.7	250.2	5609.4	1.82	40.87
42.0-43.0	3416.8	253.1	5862.6	1.84	42.72
43.0-44.0	3385.4	255.6	6118.1	1.86	44.58
44.0-45.0	3348.3	257.4	6375.5	1.88	46.45
45.0-46.0	3305.1	258.5	6634.0	1.88	48.34
46.0-47.0	3256.8	259.1	6893.0	1.89	50.22
47.0-48.0	3203.4	259.0	7152.0	1.89	52.11
48.0-49.0	3142.7	258.1	7410.2	1.88	53.99
49.0-50.0	3075.6	256.5	7666.6	1.87	55.86
50.0-51.0	3005.0	254.3	7920.9	1.85	57.71
51.0-52.0	2929.4	251.4	8172.3	1.83	59.55
52.0-53.0	2850.8	248.0	8420.3	1.81	61.35
53.0-54.0	2773.2	244.5	8664.8	1.78	63.13
54.0-55.0	2695.6	240.7	8905.4	1.75	64.89
55.0-56.0	2619.1	236.7	9142.1	1.72	66.61
56.0-57.0	2545.4	232.8	9374.9	1.70	68.31
57.0-58.0	2475.5	228.9	9603.8	1.67	69.98
58.0-59.0	2411.6	225.5	9829.3	1.64	71.62
59.0-60.0	2352.9	222.3	10051.6	1.62	73.24
60.0-61.0	2298.2	219.4	10271.0	1.60	74.84
61.0-62.0	2245.2	216.4	10487.4	1.58	76.41
62.0-63.0	2193.8	213.4	10700.8	1.55	77.97
63.0-64.0	2143.5	210.4	10911.1	1.53	79.50
64.0-65.0	2091.6	207.0	11118.1	1.51	81.01
65.0-66.0	2036.5	203.2	11321.4	1.48	82.49
66.0-67.0	1978.1	198.9	11520.3	1.45	83.94
67.0-68.0	1914.0	193.9	11714.2	1.41	85.35
68.0-69.0	1842.3	188.0	11902.2	1.37	86.72
69.0-70.0	1770.8	181.9	12084.1	1.33	88.05
70.0-71.0	1702.7	176.0	12260.1	1.28	89.33
71.0-72.0	1626.5	169.1	12429.2	1.23	90.56

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature: 19.3 'C
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-3000
 Distance: 1.600 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 2)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	1532.8	160.3	12589.5	1.17	91.73
73.0-74.0	1422.9	149.6	12739.1	1.09	92.82
74.0-75.0	1300.1	137.4	12876.5	1.00	93.82
75.0-76.0	1167.5	123.9	13000.5	0.90	94.72
76.0-77.0	1032.1	110.0	13110.5	0.80	95.53
77.0-78.0	901.1	96.5	13207.0	0.70	96.23
78.0-79.0	774.4	83.2	13290.2	0.61	96.84
79.0-80.0	650.0	70.1	13360.3	0.51	97.35
80.0-81.0	536.7	58.0	13418.3	0.42	97.77
81.0-82.0	439.3	47.6	13466.0	0.35	98.12
82.0-83.0	351.3	38.2	13504.2	0.28	98.39
83.0-84.0	276.2	30.1	13534.3	0.22	98.61
84.0-85.0	219.6	24.0	13558.3	0.17	98.79
85.0-86.0	175.8	19.2	13577.5	0.14	98.93
86.0-87.0	140.5	15.4	13592.8	0.11	99.04
87.0-88.0	112.6	12.3	13605.2	0.09	99.13
88.0-89.0	90.4	9.9	13615.1	0.07	99.20
89.0-90.0	73.6	8.1	13623.2	0.06	99.26
90.0-91.0	59.8	6.6	13629.7	0.05	99.31
91.0-92.0	49.6	5.4	13635.2	0.04	99.35
92.0-93.0	42.4	4.6	13639.8	0.03	99.38
93.0-94.0	36.1	3.9	13643.7	0.03	99.41
94.0-95.0	31.9	3.5	13647.2	0.03	99.44
95.0-96.0	29.1	3.2	13650.4	0.02	99.46
96.0-97.0	27.2	3.0	13653.4	0.02	99.48
97.0-98.0	26.1	2.8	13656.2	0.02	99.50
98.0-99.0	25.5	2.8	13659.0	0.02	99.52
99.0-100.0	25.4	2.7	13661.7	0.02	99.54
100.0-101.0	24.9	2.7	13664.4	0.02	99.56
101.0-102.0	23.3	2.5	13666.9	0.02	99.58
102.0-103.0	22.1	2.4	13669.3	0.02	99.60
103.0-104.0	21.3	2.3	13671.5	0.02	99.61
104.0-105.0	19.7	2.1	13673.6	0.02	99.63
105.0-106.0	17.8	1.9	13675.5	0.01	99.64
106.0-107.0	16.7	1.8	13677.3	0.01	99.66
107.0-108.0	15.5	1.6	13678.9	0.01	99.67

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature: 19.3 'C

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-3000

Distance: 1.600 m

Humidity:

Inspector:

Zonal Lumen (Continue 3)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	14.1	1.5	13680.4	0.01	99.68
109.0-110.0	12.6	1.3	13681.7	0.01	99.69
110.0-111.0	11.1	1.1	13682.8	0.01	99.70
111.0-112.0	10.9	1.1	13683.9	0.01	99.70
112.0-113.0	10.8	1.1	13685.0	0.01	99.71
113.0-114.0	11.1	1.1	13686.1	0.01	99.72
114.0-115.0	12.2	1.2	13687.3	0.01	99.73
115.0-116.0	12.4	1.2	13688.6	0.01	99.74
116.0-117.0	12.8	1.3	13689.8	0.01	99.75
117.0-118.0	13.1	1.3	13691.1	0.01	99.76
118.0-119.0	13.8	1.3	13692.4	0.01	99.77
119.0-120.0	14.3	1.4	13693.8	0.01	99.78
120.0-121.0	14.1	1.3	13695.1	0.01	99.79
121.0-122.0	14.6	1.4	13696.5	0.01	99.80
122.0-123.0	15.9	1.5	13697.9	0.01	99.81
123.0-124.0	16.2	1.5	13699.4	0.01	99.82
124.0-125.0	16.2	1.5	13700.9	0.01	99.83
125.0-126.0	16.0	1.4	13702.3	0.01	99.84
126.0-127.0	15.2	1.3	13703.7	0.01	99.85
127.0-128.0	14.6	1.3	13704.9	0.01	99.86
128.0-129.0	14.1	1.2	13706.1	0.01	99.87
129.0-130.0	14.2	1.2	13707.3	0.01	99.88
130.0-131.0	14.0	1.2	13708.5	0.01	99.88
131.0-132.0	13.3	1.1	13709.6	0.01	99.89
132.0-133.0	13.2	1.1	13710.7	0.01	99.90
133.0-134.0	12.5	1.0	13711.7	0.01	99.91
134.0-135.0	11.3	0.9	13712.5	0.01	99.91
135.0-136.0	11.0	0.8	13713.4	0.01	99.92
136.0-137.0	10.2	0.8	13714.2	0.01	99.92
137.0-138.0	9.3	0.7	13714.8	0.00	99.93
138.0-139.0	9.2	0.7	13715.5	0.00	99.93
139.0-140.0	9.1	0.7	13716.2	0.00	99.94
140.0-141.0	8.6	0.6	13716.8	0.00	99.94
141.0-142.0	7.9	0.5	13717.3	0.00	99.95
142.0-143.0	7.4	0.5	13717.8	0.00	99.95
143.0-144.0	7.2	0.5	13718.3	0.00	99.95

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Gamma Plane (°):0.0-180.0:1.0
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 Distance: 1.600 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 4)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	6.6	0.4	13718.7	0.00	99.96
145.0-146.0	6.8	0.4	13719.1	0.00	99.96
146.0-147.0	6.2	0.4	13719.5	0.00	99.96
147.0-148.0	5.4	0.3	13719.8	0.00	99.97
148.0-149.0	5.9	0.3	13720.1	0.00	99.97
149.0-150.0	5.7	0.3	13720.5	0.00	99.97
150.0-151.0	5.0	0.3	13720.7	0.00	99.97
151.0-152.0	5.1	0.3	13721.0	0.00	99.97
152.0-153.0	5.3	0.3	13721.3	0.00	99.98
153.0-154.0	4.7	0.2	13721.5	0.00	99.98
154.0-155.0	5.1	0.2	13721.7	0.00	99.98
155.0-156.0	5.5	0.3	13722.0	0.00	99.98
156.0-157.0	5.5	0.2	13722.2	0.00	99.98
157.0-158.0	4.8	0.2	13722.4	0.00	99.99
158.0-159.0	4.0	0.2	13722.6	0.00	99.99
159.0-160.0	3.6	0.1	13722.7	0.00	99.99
160.0-161.0	4.3	0.2	13722.9	0.00	99.99
161.0-162.0	5.2	0.2	13723.1	0.00	99.99
162.0-163.0	4.7	0.2	13723.2	0.00	99.99
163.0-164.0	4.4	0.1	13723.3	0.00	99.99
164.0-165.0	5.1	0.2	13723.5	0.00	99.99
165.0-166.0	4.9	0.1	13723.6	0.00	99.99
166.0-167.0	4.2	0.1	13723.7	0.00	99.99
167.0-168.0	4.4	0.1	13723.8	0.00	100.00
168.0-169.0	4.9	0.1	13724.0	0.00	100.00
169.0-170.0	4.8	0.1	13724.0	0.00	100.00
170.0-171.0	5.0	0.1	13724.1	0.00	100.00
171.0-172.0	5.0	0.1	13724.2	0.00	100.00
172.0-173.0	4.7	0.1	13724.3	0.00	100.00
173.0-174.0	4.3	0.1	13724.3	0.00	100.00
174.0-175.0	3.8	0.0	13724.4	0.00	100.00
175.0-176.0	4.2	0.0	13724.4	0.00	100.00
176.0-177.0	4.6	0.0	13724.4	0.00	100.00
177.0-178.0	4.4	0.0	13724.5	0.00	100.00
178.0-179.0	4.2	0.0	13724.5	0.00	100.00
179.0-180.0	4.2	0.0	13724.5	0.00	100.00

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature: 19.3 'C
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-3000
 Distance: 1.600 m
 Humidity:
 Inspector: