

Report No.:

Test Time: 2018-3-14 14:54

Luminaire Property

Luminaire Manufacturer: ASD Lighting Corp

Voltage: 277.1 V

Power: 79.95 W

Current: 0.3168 A

Power Factor: 0.9175

Photometric Results

IES Classification: Type I

Total Rated Lamp Lumens: 9488.13 lm

Efficiency: 100%

Upward Ratio: 24%

Central Intensity: 305.63 cd

Pos of Max. Intensity: H45 V67

Longitudinal Classification: Short

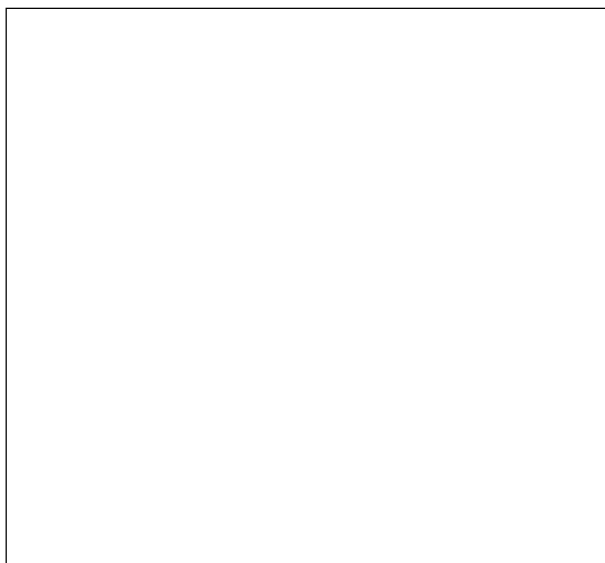
Measurement Flux: 9488.13 lm

Downward Ratio: 76%

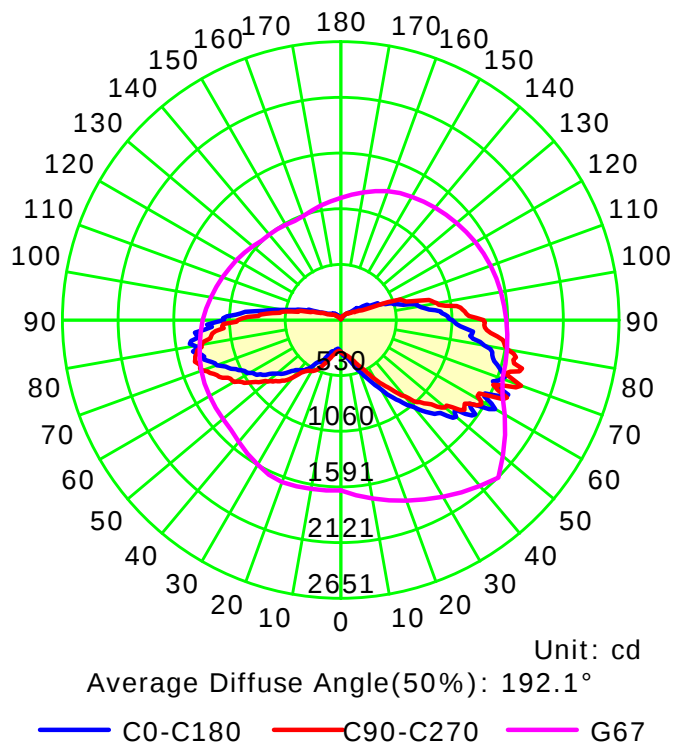
Luminaire Efficacy Rating (LER): 115.82

Max. Intensity: 2121.46 cd

Picture Of Luminaire



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature: 20.6 °C

Operator:

Gamma Plane (°):0.0-180.0:1.0

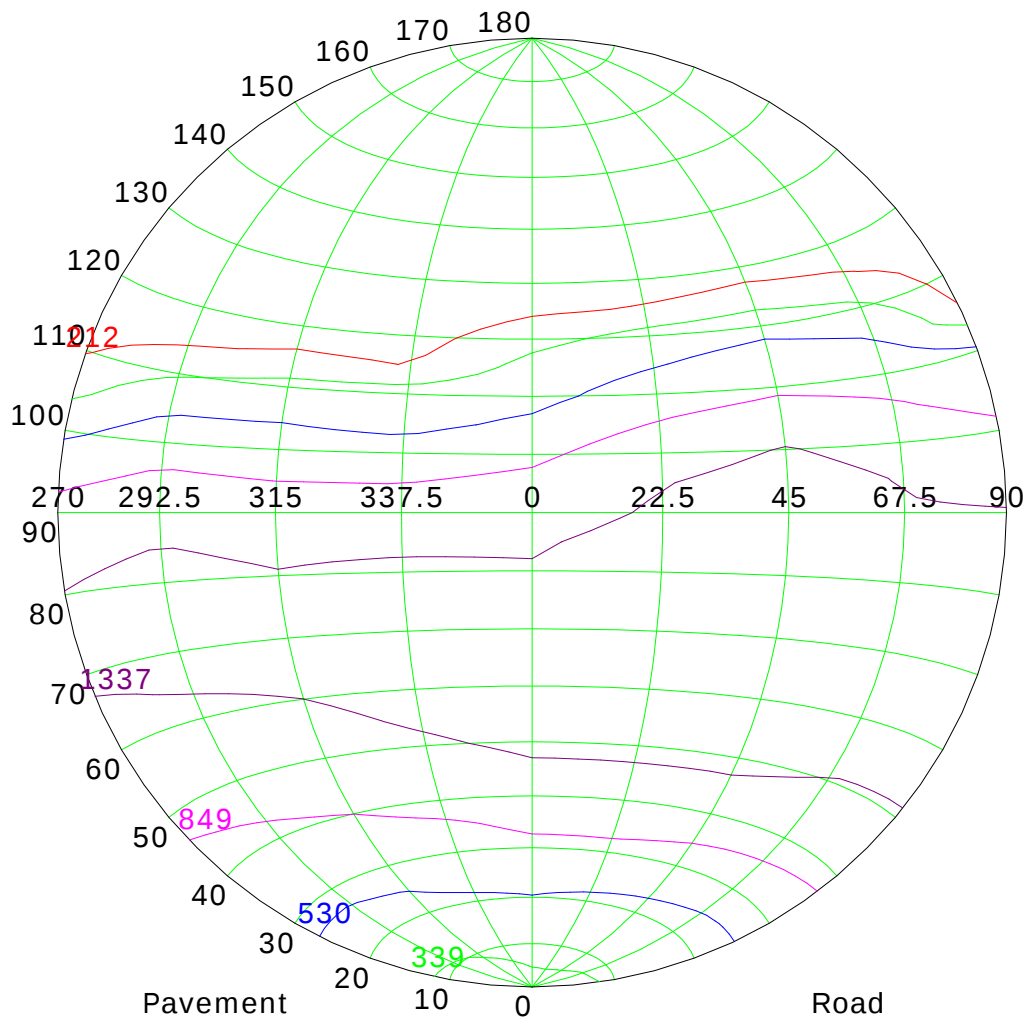
Test Device: GPM-3000

Distance: 17.398 m

Humidity:

Inspector:

Isocandela (sphere)



I_{max} (100%): 2121 cd

(10%): 212 cd
 (25%): 530 cd
 (63%): 1337 cd

(16%): 339 cd
 (40%): 849 cd
 (100%): 2121 cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature: 20.6 °C

Operator:

Gamma Plane (°):0.0-180.0:1.0

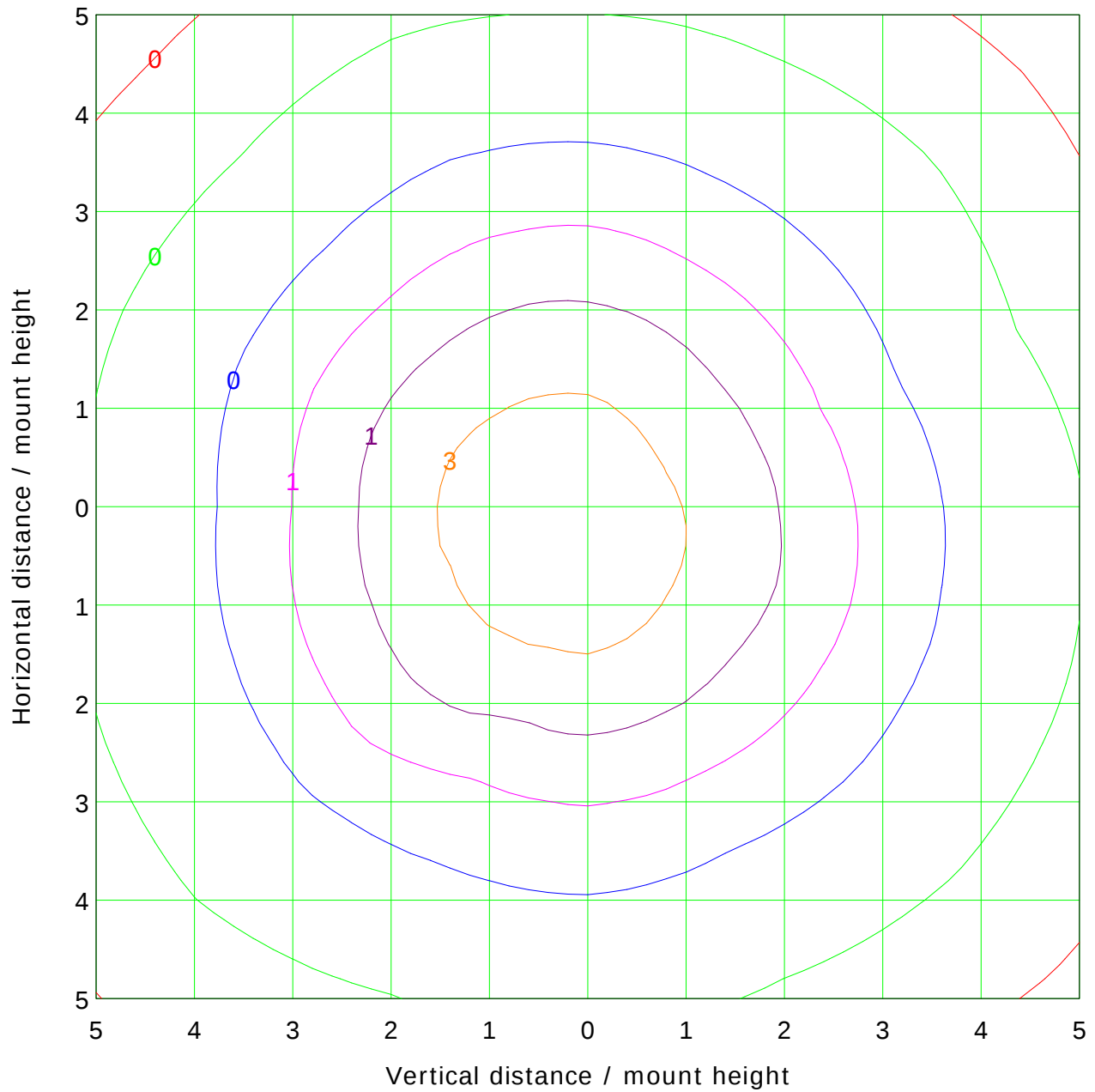
Test Device: GPM-3000

Distance: 17.398 m

Humidity:

Inspector:

IsoLux Plot



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature: 20.6 'C

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-3000

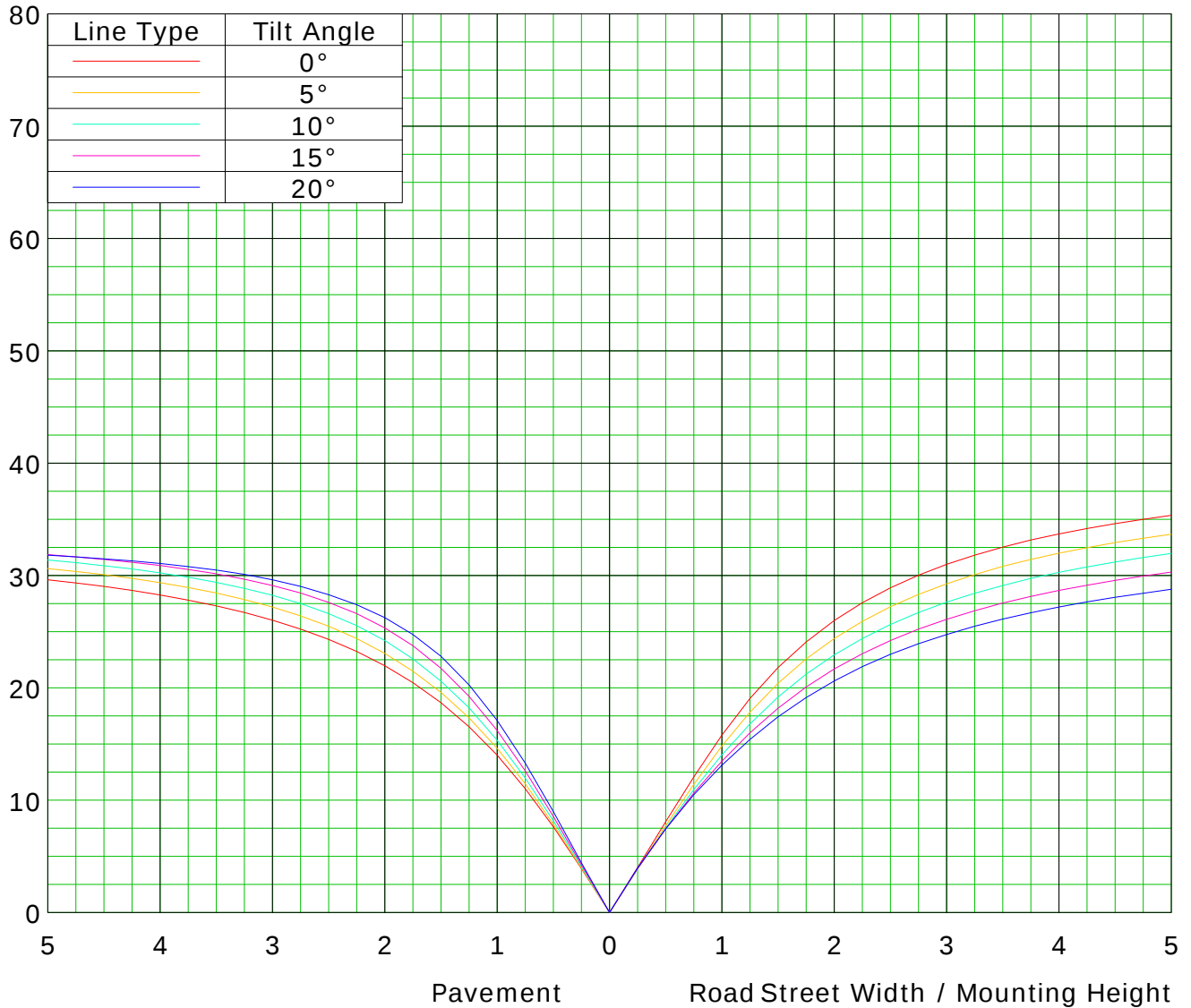
Distance: 17.398 m

Humidity:

Inspector:

Roadway CU Curve

Efficiency(%)



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature: 20.6 'C

Operator:

Gamma Plane (°):0.0-180.0:1.0

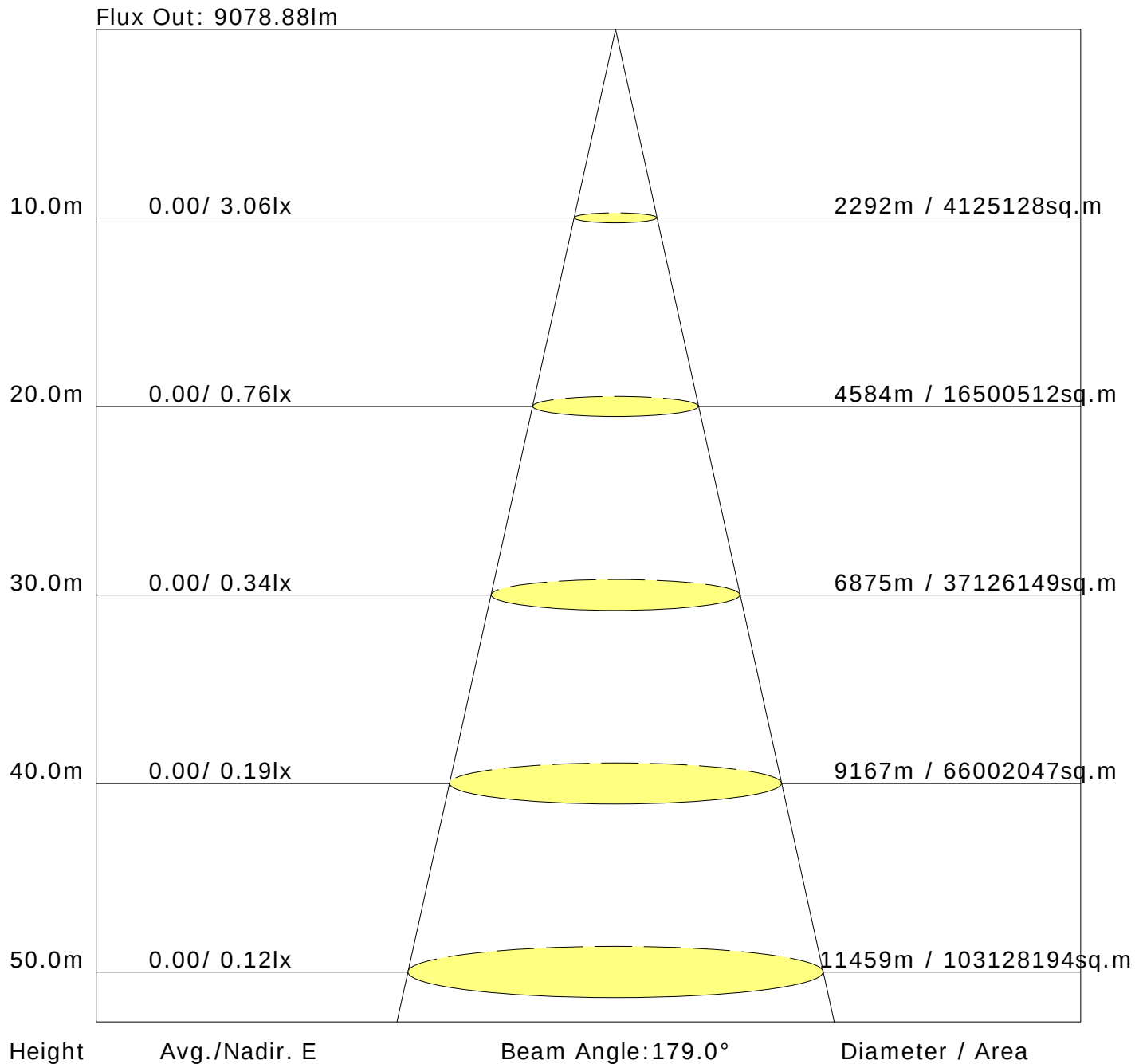
Test Device: GPM-3000

Distance: 17.398 m

Humidity:

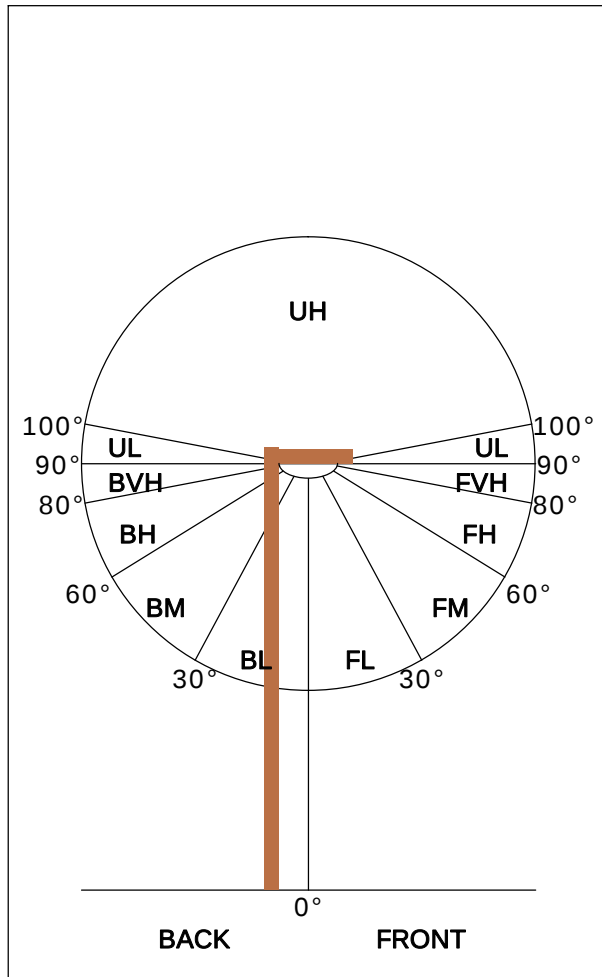
Inspector:

The Average Illuminance Effective Figure



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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-3000
Distance: 17.398 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	3876	41.6
FL (0°-30°)	194	2.1
FM (30°-60°)	1242	13.3
FH (60°-80°)	1635	17.5
FVH (80°-90°)	805	8.6
BACK LIGHT	3228	34.6
BL (0°-30°)	186	2.0
BM (30°-60°)	1018	10.9
BH (60°-80°)	1367	14.7
BVH (80°-90°)	657	7.0
UP LIGHT	2222	23.8
UL (90°-100°)	1075	11.5
UH (100°-180°)	1146	12.3
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B3 U5 G5
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B3 U5 G5

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature: 20.6 'C
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-3000
 Distance: 17.398 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	305.3	0.3	0.3	0.00	0.00
1.0-2.0	305.6	0.9	1.2	0.01	0.01
2.0-3.0	307.2	1.5	2.6	0.02	0.03
3.0-4.0	308.9	2.1	4.7	0.02	0.05
4.0-5.0	310.3	2.7	7.4	0.03	0.08
5.0-6.0	311.9	3.3	10.7	0.04	0.11
6.0-7.0	314.7	3.9	14.6	0.04	0.16
7.0-8.0	318.9	4.6	19.1	0.05	0.21
8.0-9.0	323.5	5.2	24.4	0.06	0.26
9.0-10.0	327.9	5.9	30.3	0.06	0.32
10.0-11.0	333.4	6.7	37.0	0.07	0.40
11.0-12.0	340.0	7.4	44.4	0.08	0.48
12.0-13.0	347.4	8.2	52.6	0.09	0.56
13.0-14.0	355.5	9.1	61.7	0.10	0.66
14.0-15.0	364.4	10.0	71.8	0.11	0.77
15.0-16.0	375.0	11.0	82.7	0.12	0.89
16.0-17.0	387.8	12.1	94.8	0.13	1.02
17.0-18.0	401.1	13.2	108.0	0.14	1.16
18.0-19.0	415.0	14.4	122.5	0.15	1.31
19.0-20.0	429.5	15.7	138.2	0.17	1.48
20.0-21.0	444.6	17.1	155.3	0.18	1.67
21.0-22.0	460.4	18.5	173.8	0.20	1.86
22.0-23.0	475.1	19.9	193.7	0.21	2.08
23.0-24.0	489.7	21.4	215.1	0.23	2.31
24.0-25.0	506.0	23.0	238.1	0.25	2.55
25.0-26.0	523.3	24.7	262.8	0.26	2.82
26.0-27.0	541.5	26.5	289.3	0.28	3.10
27.0-28.0	560.1	28.4	317.7	0.30	3.41
28.0-29.0	578.8	30.3	348.0	0.32	3.73
29.0-30.0	598.3	32.3	380.3	0.35	4.08
30.0-31.0	617.7	34.4	414.7	0.37	4.45
31.0-32.0	637.2	36.5	451.2	0.39	4.84
32.0-33.0	657.4	38.7	489.9	0.42	5.25
33.0-34.0	677.6	41.0	530.9	0.44	5.69
34.0-35.0	697.9	43.3	574.3	0.46	6.16
35.0-36.0	719.8	45.8	620.1	0.49	6.65

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Test Device: GPM-3000

Distance: 17.398 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	742.9	48.5	668.6	0.52	7.17
37.0-38.0	764.9	51.1	719.6	0.55	7.72
38.0-39.0	786.7	53.7	773.4	0.58	8.29
39.0-40.0	811.4	56.6	829.9	0.61	8.90
40.0-41.0	836.7	59.6	889.5	0.64	9.54
41.0-42.0	861.9	62.6	952.2	0.67	10.21
42.0-43.0	887.6	65.8	1017.9	0.71	10.92
43.0-44.0	912.2	68.9	1086.8	0.74	11.65
44.0-45.0	936.8	72.0	1158.8	0.77	12.43
45.0-46.0	961.8	75.2	1234.0	0.81	13.23
46.0-47.0	985.6	78.4	1312.4	0.84	14.07
47.0-48.0	1009.4	81.6	1394.0	0.88	14.95
48.0-49.0	1035.3	85.0	1479.1	0.91	15.86
49.0-50.0	1065.0	88.8	1567.9	0.95	16.81
50.0-51.0	1092.6	92.4	1660.3	0.99	17.80
51.0-52.0	1111.0	95.3	1755.7	1.02	18.83
52.0-53.0	1130.5	98.4	1854.0	1.05	19.88
53.0-54.0	1155.9	101.9	1955.9	1.09	20.97
54.0-55.0	1185.9	105.9	2061.8	1.14	22.11
55.0-56.0	1214.9	109.8	2171.6	1.18	23.29
56.0-57.0	1233.5	112.8	2284.4	1.21	24.50
57.0-58.0	1245.0	115.1	2399.5	1.23	25.73
58.0-59.0	1262.0	118.0	2517.5	1.27	27.00
59.0-60.0	1293.5	122.2	2639.7	1.31	28.31
60.0-61.0	1328.2	126.8	2766.5	1.36	29.66
61.0-62.0	1348.8	130.0	2896.5	1.39	31.06
62.0-63.0	1356.2	131.9	3028.4	1.41	32.47
63.0-64.0	1367.9	134.2	3162.6	1.44	33.91
64.0-65.0	1394.5	138.0	3300.7	1.48	35.39
65.0-66.0	1427.4	142.4	3443.1	1.53	36.92
66.0-67.0	1453.7	146.2	3589.3	1.57	38.49
67.0-68.0	1466.7	148.6	3737.9	1.59	40.08
68.0-69.0	1473.0	150.3	3888.2	1.61	41.69
69.0-70.0	1482.9	152.3	4040.5	1.63	43.33
70.0-71.0	1497.8	154.8	4195.3	1.66	44.99
71.0-72.0	1514.2	157.5	4352.8	1.69	46.67

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature: 20.6 'C

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-3000

Distance: 17.398 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	1525.6	159.6	4512.4	1.71	48.39
73.0-74.0	1529.8	160.8	4673.2	1.72	50.11
74.0-75.0	1527.3	161.4	4834.6	1.73	51.84
75.0-76.0	1523.8	161.8	4996.4	1.73	53.58
76.0-77.0	1518.3	161.9	5158.3	1.74	55.31
77.0-78.0	1507.4	161.4	5319.6	1.73	57.04
78.0-79.0	1499.1	161.1	5480.7	1.73	58.77
79.0-80.0	1491.8	160.8	5641.6	1.72	60.49
80.0-81.0	1473.4	159.4	5800.9	1.71	62.20
81.0-82.0	1439.5	156.1	5957.1	1.67	63.88
82.0-83.0	1405.4	152.8	6109.9	1.64	65.52
83.0-84.0	1381.7	150.5	6260.4	1.61	67.13
84.0-85.0	1359.3	148.4	6408.8	1.59	68.72
85.0-86.0	1330.1	145.4	6554.2	1.56	70.28
86.0-87.0	1303.4	142.7	6696.9	1.53	71.81
87.0-88.0	1276.7	139.9	6836.7	1.50	73.31
88.0-89.0	1237.8	135.7	6972.4	1.45	74.76
89.0-90.0	1199.7	131.5	7104.0	1.41	76.18
90.0-91.0	1172.1	128.5	7232.5	1.38	77.55
91.0-92.0	1144.5	125.5	7358.0	1.35	78.90
92.0-93.0	1098.6	120.4	7478.3	1.29	80.19
93.0-94.0	1050.3	115.0	7593.3	1.23	81.42
94.0-95.0	1012.4	110.7	7703.9	1.19	82.61
95.0-96.0	967.3	105.6	7809.5	1.13	83.74
96.0-97.0	916.8	99.9	7909.4	1.07	84.81
97.0-98.0	871.1	94.7	8004.1	1.02	85.83
98.0-99.0	830.6	90.1	8094.2	0.97	86.79
99.0-100.0	787.7	85.2	8179.4	0.91	87.71
100.0-101.0	744.9	80.3	8259.7	0.86	88.57
101.0-102.0	712.5	76.6	8336.3	0.82	89.39
102.0-103.0	677.8	72.6	8408.9	0.78	90.17
103.0-104.0	633.8	67.6	8476.5	0.72	90.89
104.0-105.0	586.0	62.2	8538.7	0.67	91.56
105.0-106.0	539.3	57.0	8595.7	0.61	92.17
106.0-107.0	501.8	52.8	8648.4	0.57	92.74
107.0-108.0	475.1	49.7	8698.1	0.53	93.27

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature: 20.6 'C
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-3000
 Distance: 17.398 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	452.2	47.0	8745.1	0.50	93.77
109.0-110.0	423.5	43.8	8788.9	0.47	94.24
110.0-111.0	389.6	40.0	8828.9	0.43	94.67
111.0-112.0	354.4	36.2	8865.1	0.39	95.06
112.0-113.0	324.7	32.9	8898.0	0.35	95.41
113.0-114.0	305.4	30.7	8928.7	0.33	95.74
114.0-115.0	287.4	28.7	8957.4	0.31	96.05
115.0-116.0	265.1	26.2	8983.6	0.28	96.33
116.0-117.0	247.6	24.3	9007.9	0.26	96.59
117.0-118.0	231.5	22.5	9030.5	0.24	96.83
118.0-119.0	213.3	20.6	9051.0	0.22	97.05
119.0-120.0	200.3	19.1	9070.1	0.20	97.26
120.0-121.0	191.1	18.1	9088.2	0.19	97.45
121.0-122.0	181.9	17.0	9105.2	0.18	97.63
122.0-123.0	171.1	15.8	9121.0	0.17	97.80
123.0-124.0	158.9	14.5	9135.5	0.16	97.96
124.0-125.0	145.6	13.2	9148.7	0.14	98.10
125.0-126.0	134.1	12.0	9160.7	0.13	98.23
126.0-127.0	127.4	11.2	9171.9	0.12	98.35
127.0-128.0	122.1	10.6	9182.5	0.11	98.46
128.0-129.0	116.1	10.0	9192.5	0.11	98.57
129.0-130.0	110.2	9.3	9201.8	0.10	98.67
130.0-131.0	104.7	8.7	9210.5	0.09	98.76
131.0-132.0	100.2	8.2	9218.8	0.09	98.85
132.0-133.0	96.3	7.8	9226.6	0.08	98.94
133.0-134.0	92.5	7.4	9233.9	0.08	99.01
134.0-135.0	89.0	7.0	9240.9	0.07	99.09
135.0-136.0	85.5	6.6	9247.5	0.07	99.16
136.0-137.0	82.1	6.2	9253.6	0.07	99.23
137.0-138.0	78.7	5.8	9259.5	0.06	99.29
138.0-139.0	75.3	5.5	9264.9	0.06	99.35
139.0-140.0	71.8	5.1	9270.1	0.05	99.40
140.0-141.0	68.3	4.8	9274.8	0.05	99.45
141.0-142.0	65.0	4.4	9279.3	0.05	99.50
142.0-143.0	61.6	4.1	9283.4	0.04	99.54
143.0-144.0	58.2	3.8	9287.2	0.04	99.59

C Plane (°):0.0-360.0: 22.5

Test Lab:

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Operator:

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Test Device: GPM-3000

Distance: 17.398 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	54.8	3.5	9290.7	0.04	99.62
145.0-146.0	51.7	3.2	9293.9	0.03	99.66
146.0-147.0	48.7	2.9	9296.8	0.03	99.69
147.0-148.0	45.8	2.7	9299.5	0.03	99.72
148.0-149.0	43.1	2.5	9302.0	0.03	99.74
149.0-150.0	40.7	2.3	9304.3	0.02	99.77
150.0-151.0	38.4	2.1	9306.3	0.02	99.79
151.0-152.0	36.4	1.9	9308.2	0.02	99.81
152.0-153.0	34.6	1.8	9310.0	0.02	99.83
153.0-154.0	32.9	1.6	9311.6	0.02	99.85
154.0-155.0	31.3	1.5	9313.1	0.02	99.86
155.0-156.0	29.9	1.4	9314.4	0.01	99.88
156.0-157.0	28.4	1.2	9315.7	0.01	99.89
157.0-158.0	27.1	1.1	9316.8	0.01	99.90
158.0-159.0	26.0	1.0	9317.9	0.01	99.91
159.0-160.0	24.9	1.0	9318.8	0.01	99.92
160.0-161.0	23.9	0.9	9319.7	0.01	99.93
161.0-162.0	23.0	0.8	9320.5	0.01	99.94
162.0-163.0	22.0	0.7	9321.2	0.01	99.95
163.0-164.0	21.0	0.7	9321.9	0.01	99.96
164.0-165.0	19.9	0.6	9322.4	0.01	99.96
165.0-166.0	18.7	0.5	9323.0	0.01	99.97
166.0-167.0	17.7	0.5	9323.4	0.00	99.97
167.0-168.0	16.8	0.4	9323.8	0.00	99.98
168.0-169.0	16.0	0.4	9324.2	0.00	99.98
169.0-170.0	15.4	0.3	9324.5	0.00	99.99
170.0-171.0	14.8	0.3	9324.7	0.00	99.99
171.0-172.0	14.2	0.2	9325.0	0.00	99.99
172.0-173.0	13.7	0.2	9325.2	0.00	99.99
173.0-174.0	13.1	0.2	9325.3	0.00	99.99
174.0-175.0	13.7	0.1	9325.5	0.00	100.00
175.0-176.0	15.0	0.1	9325.6	0.00	100.00
176.0-177.0	15.9	0.1	9325.7	0.00	100.00
177.0-178.0	16.5	0.1	9325.8	0.00	100.00
178.0-179.0	16.8	0.0	9325.8	0.00	100.00
179.0-180.0	17.0	0.0	9325.8	0.00	100.00

C Plane (°):0.0-360.0: 22.5

Test Lab:

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