

Report No.:

Test Time: 2025-03-15 11:05

Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Lamp Catalog:
Number of Lamps:
Luminous Length (mm):
Luminous Height (mm):
Current: 1.374 A
Power Factor: 0.960

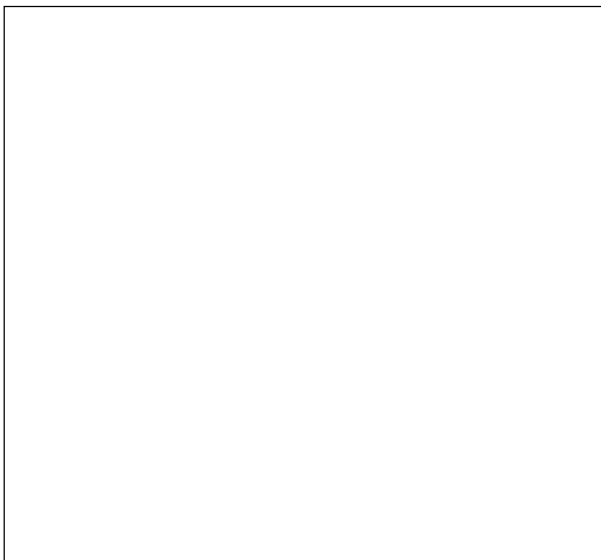
Luminaire Description: WL82-300W-YT-1
Lamp Description:
Lumens per Lamp:
Luminous Width (mm):
Voltage: 228.4 V
Power: 301.20 W

Photometric Results

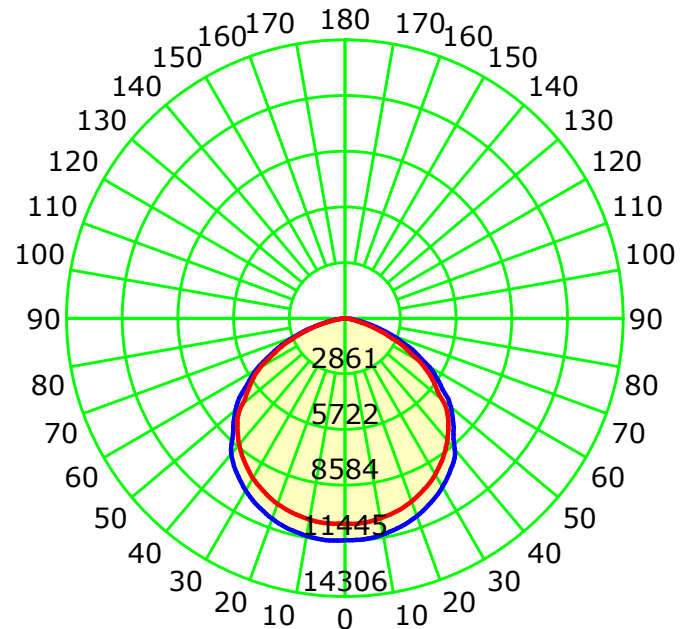
IES Classification: Type II
Total Rated Lamp Lumens: 30538.5 lm
Efficiency: 100%
Upward Ratio: 0%
C0r0 Intensity: 11411.36 cd
Pos of Max. Intensity: H180 V4

Longitudinal Classification: Very Short
Measurement Flux: 30538.5 lm
Downward Ratio: 100%
Luminaire Efficacy Rating (LER): 101.44
Max. Intensity: 11445.59 cd

Picture Of Luminaire



Luminous Intensity Distribution Curve



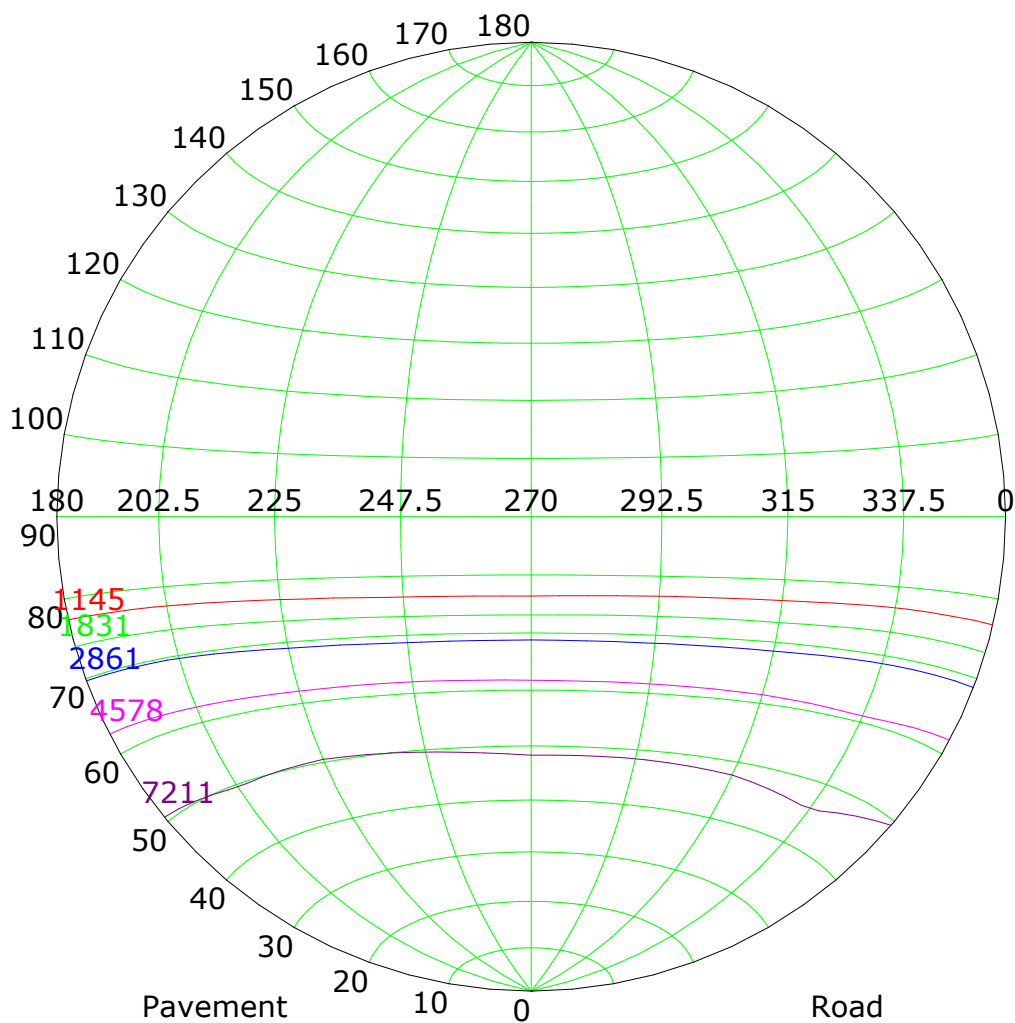
Average Diffuse Angle(50%): 114.4°

— C0-C180 — C90-C270

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

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 8.005 m [K=1.0000]
Humidity:
Inspector:

Isocandela (sphere)



Imax (100%): 11446 cd

— (10%): 1145 cd

— (25%): 2861 cd

— (63%): 7211 cd

— (16%): 1831 cd

— (40%): 4578 cd

— (100%): 11446 cd

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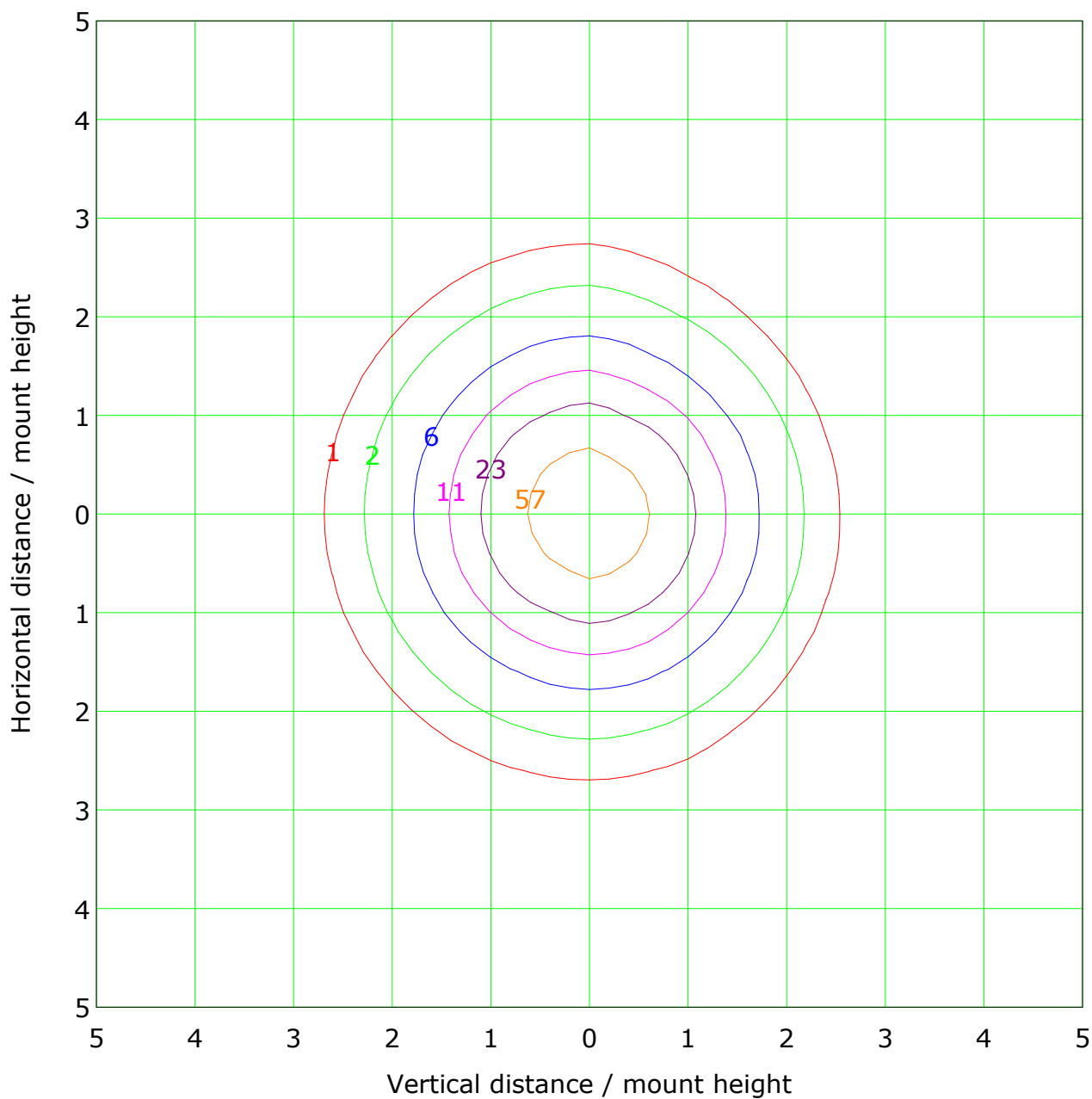
Test Device: GPM-1600L

Distance: 8.005 m [K=1.0000]

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 114.2 lx

(1%): 1.1 lx	(2%): 2.3 lx
(5%): 5.7 lx	(10%): 11.4 lx
(20%): 22.8 lx	(50%): 57.1 lx
(100%): 114.2 lx	

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Test Device: GPM-1600L

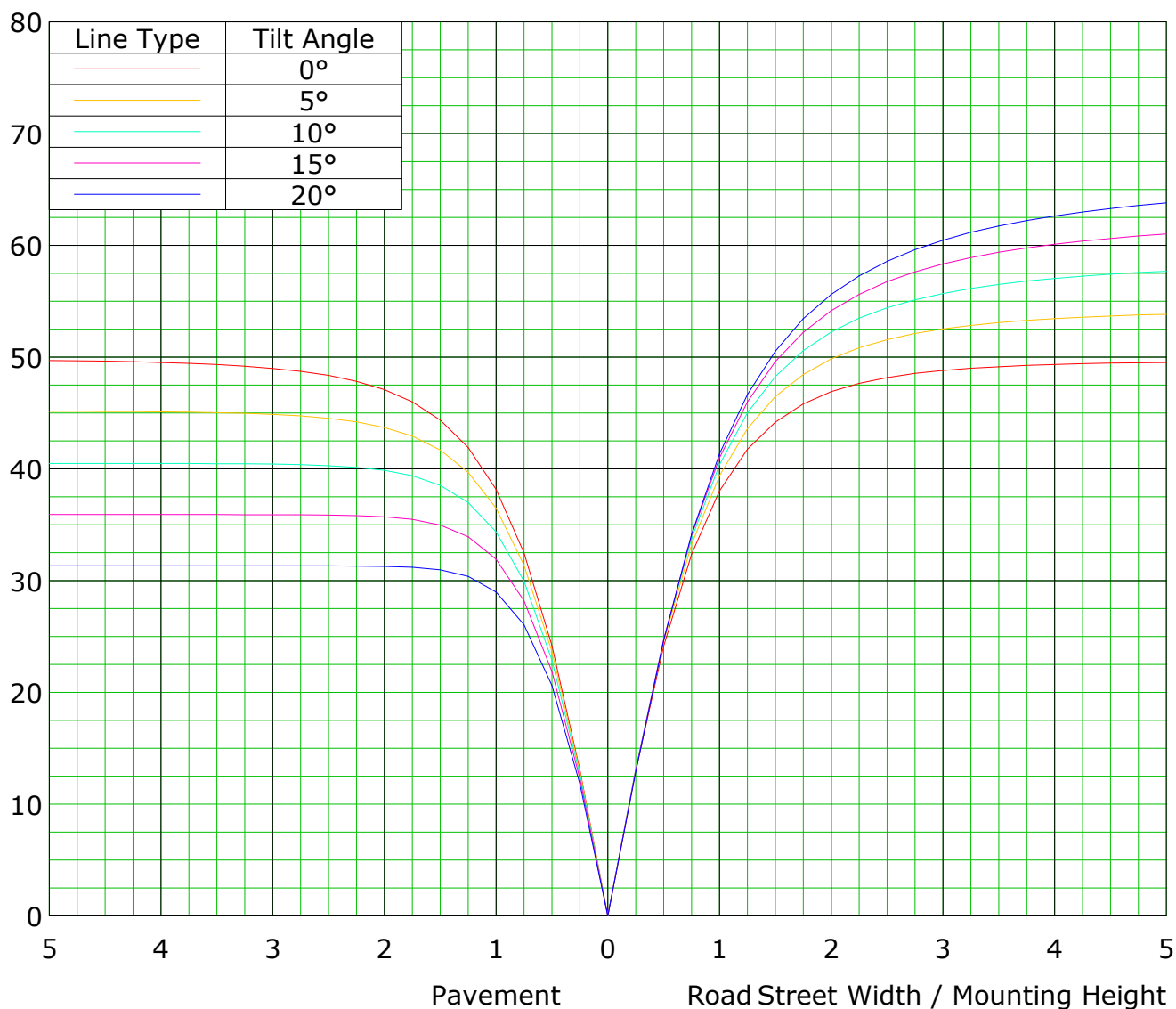
Distance: 8.005 m [K=1.0000]

Humidity:

Inspector:

Roadway CU Curve

Efficiency(%)



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Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 8.005 m [K=1.0000]

Humidity:

Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	15241	49.9
	FL (0°-30°)	4268	14.0
	FM (30°-60°)	8391	27.5
	FH (60°-80°)	2505	8.2
	FVH (80°-90°)	77	0.3
	BACK LIGHT	15298	50.1
	BL (0°-30°)	4285	14.0
	BM (30°-60°)	8448	27.7
	BH (60°-80°)	2493	8.2
	BVH (80°-90°)	71	0.2
	UP LIGHT	0	0.0
	UL (90°-100°)	0	0.0
	UH (100°-180°)	0	0.0
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B4 U2 G3
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B4 U2 G2

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Distance: 8.005 m [K=1.0000]
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	10725.1	10.3	10.3	0.03	0.03
1.0-2.0	10728.6	30.8	41.1	0.10	0.13
2.0-3.0	10733.4	51.3	92.4	0.17	0.30
3.0-4.0	10735.9	71.9	164.3	0.24	0.54
4.0-5.0	10733.7	92.4	256.6	0.30	0.84
5.0-6.0	10726.3	112.7	369.4	0.37	1.21
6.0-7.0	10714.6	133.0	502.4	0.44	1.65
7.0-8.0	10699.0	153.1	655.5	0.50	2.15
8.0-9.0	10679.1	173.1	828.6	0.57	2.71
9.0-10.0	10656.2	192.9	1021.5	0.63	3.34
10.0-11.0	10629.4	212.4	1233.9	0.70	4.04
11.0-12.0	10599.7	231.7	1465.6	0.76	4.80
12.0-13.0	10569.0	250.9	1716.5	0.82	5.62
13.0-14.0	10534.4	269.7	1986.2	0.88	6.50
14.0-15.0	10496.4	288.2	2274.4	0.94	7.45
15.0-16.0	10456.0	306.4	2580.8	1.00	8.45
16.0-17.0	10411.9	324.3	2905.1	1.06	9.51
17.0-18.0	10365.4	341.8	3246.9	1.12	10.63
18.0-19.0	10314.8	358.9	3605.8	1.18	11.81
19.0-20.0	10261.5	375.6	3981.4	1.23	13.04
20.0-21.0	10207.2	392.0	4373.4	1.28	14.32
21.0-22.0	10146.8	407.8	4781.2	1.34	15.66
22.0-23.0	10083.4	423.2	5204.4	1.39	17.04
23.0-24.0	10016.6	438.0	5642.4	1.43	18.48
24.0-25.0	9946.3	452.3	6094.7	1.48	19.96
25.0-26.0	9876.9	466.3	6561.0	1.53	21.48
26.0-27.0	9802.1	479.6	7040.6	1.57	23.05
27.0-28.0	9724.1	492.4	7533.0	1.61	24.67
28.0-29.0	9644.3	504.6	8037.6	1.65	26.32
29.0-30.0	9558.8	516.2	8553.8	1.69	28.01
30.0-31.0	9471.0	527.1	9080.9	1.73	29.74
31.0-32.0	9376.8	537.3	9618.2	1.76	31.50
32.0-33.0	9279.7	546.8	10165.0	1.79	33.29
33.0-34.0	9183.4	555.8	10720.8	1.82	35.11
34.0-35.0	9080.5	564.0	11284.8	1.85	36.95
35.0-36.0	8975.6	571.6	11856.4	1.87	38.82

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Distance: 8.005 m [K=1.0000]
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	8869.4	578.5	12434.9	1.89	40.72
37.0-38.0	8756.1	584.5	13019.5	1.91	42.63
38.0-39.0	8640.9	589.9	13609.3	1.93	44.56
39.0-40.0	8516.2	594.0	14203.4	1.95	46.51
40.0-41.0	8383.0	597.0	14800.4	1.96	48.46
41.0-42.0	8246.5	599.2	15399.6	1.96	50.43
42.0-43.0	8092.6	599.5	15999.2	1.96	52.39
43.0-44.0	7934.1	598.9	16598.1	1.96	54.35
44.0-45.0	7780.3	598.0	17196.1	1.96	56.31
45.0-46.0	7626.6	596.5	17792.6	1.95	58.26
46.0-47.0	7477.9	594.8	18387.4	1.95	60.21
47.0-48.0	7321.7	592.0	18979.4	1.94	62.15
48.0-49.0	7159.6	588.0	19567.4	1.93	64.07
49.0-50.0	6989.7	582.8	20150.3	1.91	65.98
50.0-51.0	6793.1	574.8	20725.1	1.88	67.87
51.0-52.0	6583.5	565.0	21290.1	1.85	69.72
52.0-53.0	6370.8	554.3	21844.3	1.81	71.53
53.0-54.0	6161.1	543.1	22387.5	1.78	73.31
54.0-55.0	5964.1	532.5	22919.9	1.74	75.05
55.0-56.0	5761.8	520.7	23440.6	1.71	76.76
56.0-57.0	5560.0	508.4	23949.1	1.66	78.42
57.0-58.0	5365.3	496.2	24445.3	1.62	80.05
58.0-59.0	5154.2	481.9	24927.2	1.58	81.63
59.0-60.0	4932.7	466.1	25393.3	1.53	83.15
60.0-61.0	4706.3	449.2	25842.5	1.47	84.62
61.0-62.0	4466.5	430.4	26272.9	1.41	86.03
62.0-63.0	4216.9	410.2	26683.1	1.34	87.38
63.0-64.0	3963.0	388.9	27072.0	1.27	88.65
64.0-65.0	3731.1	369.3	27441.3	1.21	89.86
65.0-66.0	3517.4	351.0	27792.3	1.15	91.01
66.0-67.0	3286.8	330.5	28122.9	1.08	92.09
67.0-68.0	3036.7	307.7	28430.5	1.01	93.10
68.0-69.0	2774.5	283.1	28713.6	0.93	94.02
69.0-70.0	2524.1	259.3	28972.9	0.85	94.87
70.0-71.0	2298.3	237.6	29210.4	0.78	95.65
71.0-72.0	2069.7	215.2	29425.7	0.70	96.36

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Operator:

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Test Device: GPM-1600L
Distance: 8.005 m [K=1.0000]
Humidity:
Inspector:

Zonal Lumen (Continue 2)

[illegible]

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

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 8.005 m [K=1.0000]
Humidity:
Inspector:

Zonal Lumen (Continue 3)

cone flux(90°): 17196.08 lm

%lum = 56.3%

%lamp = 56.3%

cone flux(120°): 25393.29 lm

%lum = 83.2%

%lamp = 83.2%