

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P866303

Luminaire Tested: PRLX-2002-M-935-35L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-2002-M-935-35L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

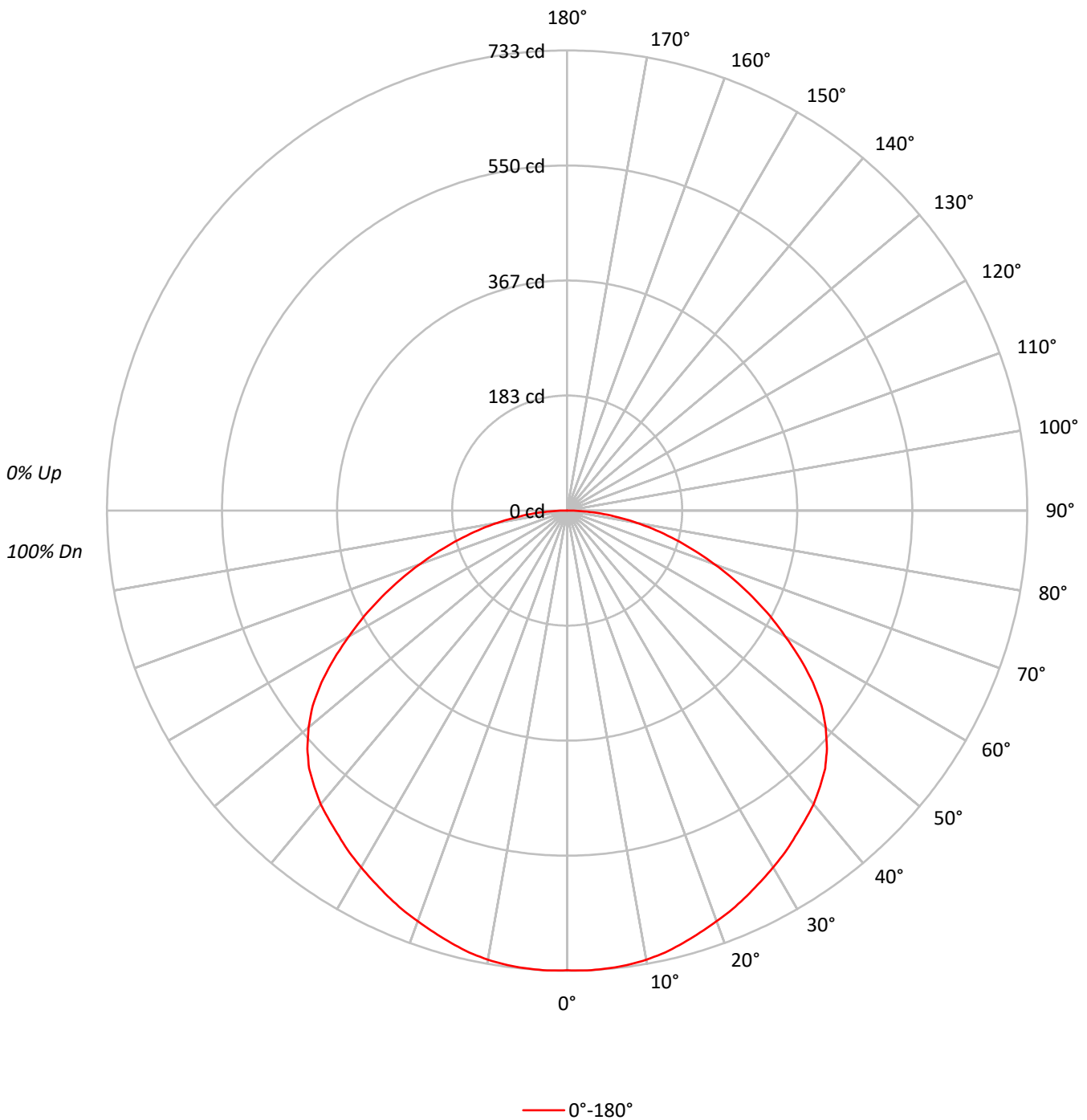
Lumens per Lamp: N/A
Luminaire Lumens: 2425.0 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.5
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 30
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	99	94	105	101	97	93	96	93	90		93	90	87		89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51		62	56	50		60	54	50	48
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	35	30		40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	29	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5826
5°	5848
10°	5870
15°	5875
20°	5894
25°	5945
30°	6029
35°	6153
40°	6342
45°	6539
50°	6654
55°	6626
60°	6392
65°	6133
70°	5811
75°	5490
80°	5177
85°	4856

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 6678 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	2.9
10°-20°	201.5	8.3
20°-30°	312.8	12.9
30°-40°	397.5	16.4
40°-50°	447.1	18.4
50°-60°	424.8	17.5
60°-70°	322.6	13.3
70°-80°	189.6	7.8
80°-90°	59.3	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	584.0	24.1
0°-40°	981.6	40.5
0°-60°	1853.4	76.4
0°-90°	2425.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2425.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	732	
5°	732	70
15°	713	202
25°	677	313
35°	634	398
45°	581	447
55°	478	425
65°	326	323
75°	179	190
85°	53	59
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	732.3
2.5°	733.2
5°	732.3
7.5°	730.4
10°	726.6
12.5°	720.9
15°	713.3
17.5°	704.7
20°	696.2
22.5°	687.6
25°	677.2
27.5°	666.7
30°	656.3
32.5°	645.8
35°	633.5
37.5°	622.1
40°	610.7
42.5°	596.4
45°	581.2
47.5°	561.3
50°	537.6
52.5°	511.0
55°	477.7
57.5°	440.7
60°	401.7
62.5°	364.7
65°	325.8
67.5°	287.8
70°	249.8
72.5°	213.7
75°	178.6
77.5°	145.3
80°	113.0
82.5°	81.7
85°	53.2
87.5°	26.6
90°	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	18.94	20.64	19.31	20.95	21.26	18.94	20.64	19.31	20.95	21.26
	3H	20.74	22.28	21.12	22.60	22.96	20.74	22.28	21.12	22.60	22.96
	4H	21.43	22.89	21.83	23.23	23.61	21.43	22.89	21.83	23.23	23.61
	6H	21.98	23.33	22.39	23.69	24.08	21.98	23.33	22.39	23.69	24.08
	8H	22.17	23.46	22.60	23.85	24.25	22.17	23.46	22.60	23.85	24.25
	12H	22.32	23.56	22.75	23.94	24.36	22.32	23.56	22.75	23.94	24.36
4H	2H	19.58	21.03	19.97	21.38	21.75	19.58	21.03	19.97	21.38	21.75
	3H	21.60	22.82	22.01	23.22	23.62	21.60	22.82	22.01	23.22	23.62
	4H	22.43	23.54	22.86	23.95	24.39	22.43	23.54	22.86	23.95	24.39
	6H	23.12	24.09	23.57	24.53	24.99	23.12	24.09	23.57	24.53	24.99
	8H	23.37	24.28	23.83	24.72	25.19	23.37	24.28	23.83	24.72	25.19
	12H	23.57	24.39	24.05	24.86	25.33	23.57	24.39	24.05	24.86	25.33
8H	4H	22.77	23.68	23.23	24.12	24.59	22.77	23.68	23.23	24.12	24.59
	6H	23.60	24.36	24.09	24.84	25.32	23.60	24.36	24.09	24.84	25.32
	8H	23.93	24.61	24.44	25.12	25.60	23.93	24.61	24.44	25.12	25.60
	12H	24.22	24.82	24.72	25.31	25.87	24.22	24.82	24.72	25.31	25.87
12H	4H	22.82	23.64	23.30	24.11	24.58	22.82	23.64	23.30	24.11	24.58
	6H	23.67	24.35	24.17	24.86	25.34	23.67	24.35	24.17	24.86	25.34
	8H	24.07	24.67	24.57	25.16	25.72	24.07	24.67	24.57	25.16	25.72