

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: P866175

Luminaire Tested: PRLX-2002-M-927-35L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866175
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: Pentalux
Catalog Number: PRLX-2002-M-927-35L-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

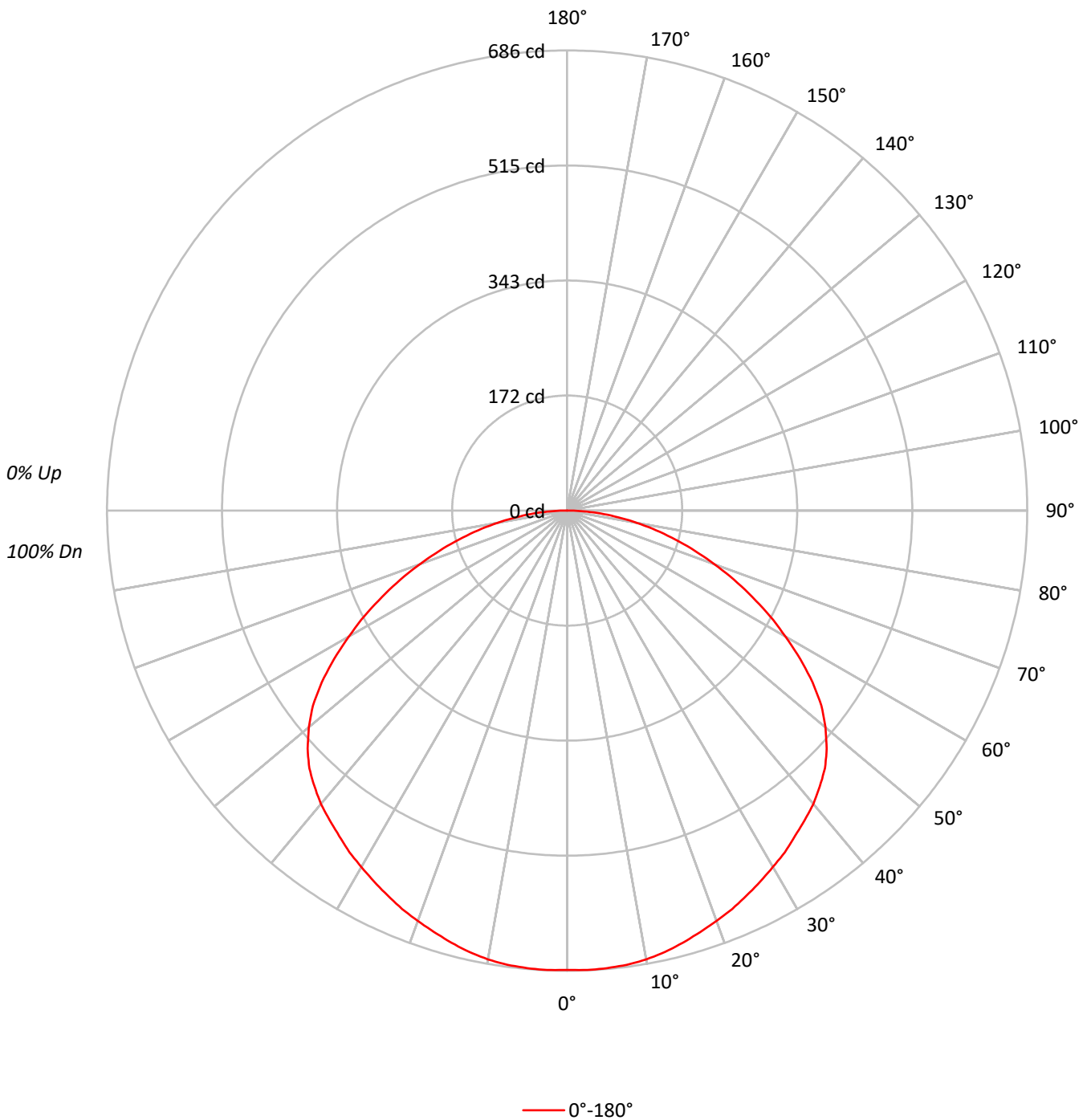
Lumens per Lamp: N/A
Luminaire Lumens: 2267.5 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.5
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 30
Input Voltage (V): 120
Input Current (Ain): 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°	5447
5°	5468
10°	5489
15°	5493
20°	5511
25°	5558
30°	5637
35°	5753
40°	5930
45°	6115
50°	6221
55°	6196
60°	5976
65°	5734
70°	5434
75°	5133
80°	4843
85°	4537

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 6244 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	2.9
10°-20°	188.4	8.3
20°-30°	292.5	12.9
30°-40°	371.7	16.4
40°-50°	418.0	18.4
50°-60°	397.2	17.5
60°-70°	301.7	13.3
70°-80°	177.3	7.8
80°-90°	55.5	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°	546.1	24.1
0°-40°	917.8	40.5
0°-60°	1733.0	76.4
0°-90°	2267.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2267.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	685	
5°	685	65
15°	667	188
25°	633	292
35°	592	372
45°	544	418
55°	447	397
65°	305	302
75°	167	177
85°	50	55
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	684.7
2.5°	685.6
5°	684.7
7.5°	682.9
10°	679.4
12.5°	674.0
15°	666.9
17.5°	658.9
20°	650.9
22.5°	642.9
25°	633.2
27.5°	623.4
30°	613.6
32.5°	603.9
35°	592.3
37.5°	581.7
40°	571.0
42.5°	557.7
45°	543.5
47.5°	524.8
50°	502.6
52.5°	477.8
55°	446.7
57.5°	412.1
60°	375.6
62.5°	341.0
65°	304.6
67.5°	269.1
70°	233.6
72.5°	199.8
75°	167.0
77.5°	135.9
80°	105.7
82.5°	76.4
85°	49.7
87.5°	24.9
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	18.71	20.40	19.07	20.72	21.03	18.71	20.40	19.07	20.72	21.03
	3H	20.51	22.04	20.88	22.37	22.73	20.51	22.04	20.88	22.37	22.73
	4H	21.20	22.65	21.60	23.00	23.37	21.20	22.65	21.60	23.00	23.37
	6H	21.75	23.10	22.16	23.46	23.85	21.75	23.10	22.16	23.46	23.85
	8H	21.94	23.23	22.37	23.62	24.02	21.94	23.23	22.37	23.62	24.02
	12H	22.09	23.32	22.51	23.70	24.13	22.09	23.32	22.51	23.70	24.13
4H	2H	19.34	20.80	19.74	21.14	21.52	19.34	20.80	19.74	21.14	21.52
	3H	21.37	22.59	21.78	22.99	23.39	21.37	22.59	21.78	22.99	23.39
	4H	22.20	23.31	22.63	23.72	24.15	22.20	23.31	22.63	23.72	24.15
	6H	22.89	23.86	23.34	24.30	24.75	22.89	23.86	23.34	24.30	24.75
	8H	23.14	24.05	23.60	24.49	24.95	23.14	24.05	23.60	24.49	24.95
	12H	23.34	24.16	23.81	24.63	25.10	23.34	24.16	23.81	24.63	25.10
8H	4H	22.54	23.45	23.00	23.89	24.35	22.54	23.45	23.00	23.89	24.35
	6H	23.36	24.12	23.85	24.61	25.08	23.36	24.12	23.85	24.61	25.08
	8H	23.70	24.38	24.20	24.88	25.37	23.70	24.38	24.20	24.88	25.37
	12H	23.98	24.59	24.49	25.08	25.64	23.98	24.59	24.49	25.08	25.64
12H	4H	22.58	23.41	23.06	23.88	24.35	22.58	23.41	23.06	23.88	24.35
	6H	23.44	24.12	23.94	24.63	25.11	23.44	24.12	23.94	24.63	25.11
	8H	23.83	24.44	24.34	24.93	25.49	23.83	24.44	24.34	24.93	25.49