

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: P866587

Luminaire Tested: PRLX-2004-M-935-65L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-M-935-65L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

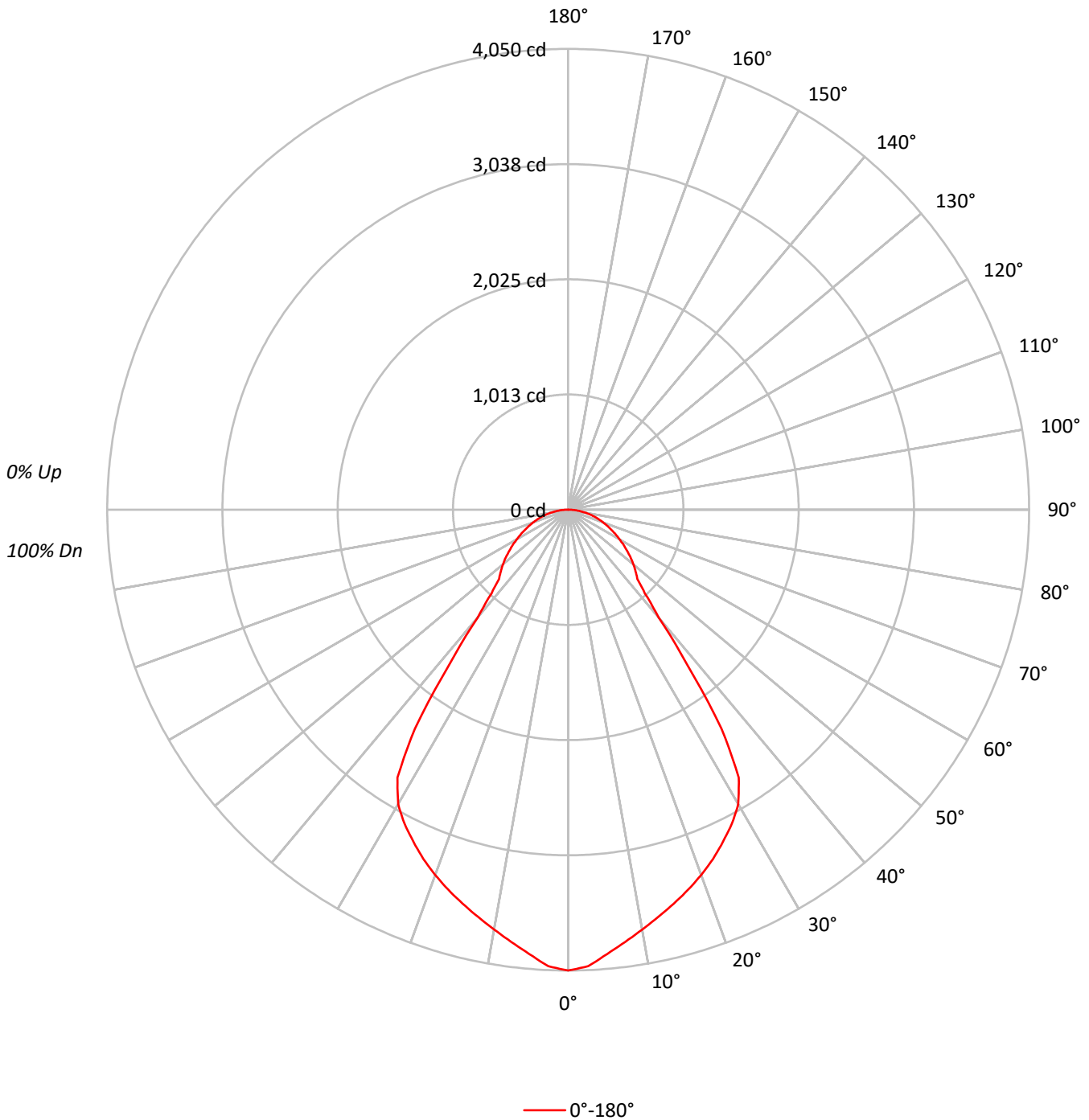
Lumens per Lamp: N/A
Luminaire Lumens: 6270.6 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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: 0.5 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	111	107	103	100	108	105	101	98	100	98	95		97	94	92		93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	83		87	84	81		85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72		80	75	71		77	73	70	68
4	89	79	71	66	87	77	71	65	75	69	64		73	68	64		71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58		67	62	57		65	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52		62	56	52		61	55	51	50
7	73	61	53	48	71	60	53	48	59	52	48		57	52	47		56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44		54	48	43		52	47	43	42
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37		47	41	37		46	41	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	32218
5°	31299
10°	30264
15°	29520
20°	28925
25°	28257
30°	27448
35°	22818
40°	12841
45°	9665
50°	9278
55°	8783
60°	8279
65°	7869
70°	7590
75°	7374
80°	7193
85°	7083

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9665 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.9	5.9
10°-20°	1011.0	16.1
20°-30°	1482.0	23.6
30°-40°	1384.5	22.1
40°-50°	702.1	11.2
50°-60°	566.9	9.0
60°-70°	416.8	6.6
70°-80°	253.6	4.0
80°-90°	84.7	1.4
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°	2862.0	45.6
0°-40°	4246.5	67.7
0°-60°	5515.6	88.0
0°-90°	6270.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6270.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4050	
5°	3919	369
15°	3584	1011
25°	3219	1482
35°	2349	1385
45°	859	702
55°	633	567
65°	418	417
75°	240	254
85°	78	85
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	4049.7
2.5°	4016.2
5°	3919.2
7.5°	3831.0
10°	3746.3
12.5°	3665.2
15°	3584.1
17.5°	3502.9
20°	3416.5
22.5°	3323.0
25°	3219.0
27.5°	3113.1
30°	2987.9
32.5°	2790.4
35°	2349.4
37.5°	1712.7
40°	1236.4
42.5°	996.6
45°	859.0
47.5°	802.5
50°	749.6
52.5°	691.4
55°	633.2
57.5°	576.8
60°	520.3
62.5°	470.9
65°	418.0
67.5°	372.2
70°	326.3
72.5°	282.2
75°	239.9
77.5°	197.5
80°	157.0
82.5°	116.4
85°	77.6
87.5°	38.8
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	17.95	19.30	18.31	19.61	19.93	17.95	19.30	18.31	19.61	19.93
	3H	19.69	20.90	20.07	21.23	21.59	19.69	20.90	20.07	21.23	21.59
	4H	20.40	21.53	20.80	21.88	22.26	20.40	21.53	20.80	21.88	22.26
	6H	20.97	22.02	21.38	22.39	22.78	20.97	22.02	21.38	22.39	22.78
	8H	21.18	22.17	21.61	22.57	22.97	21.18	22.17	21.61	22.57	22.97
	12H	21.34	22.29	21.77	22.67	23.10	21.34	22.29	21.77	22.67	23.10
4H	2H	18.50	19.63	18.90	19.99	20.37	18.50	19.63	18.90	19.99	20.37
	3H	20.48	21.42	20.89	21.82	22.22	20.48	21.42	20.89	21.82	22.22
	4H	21.33	22.17	21.76	22.59	23.03	21.33	22.17	21.76	22.59	23.03
	6H	22.05	22.78	22.51	23.23	23.69	22.05	22.78	22.51	23.23	23.69
	8H	22.31	23.00	22.78	23.45	23.92	22.31	23.00	22.78	23.45	23.92
	12H	22.53	23.14	23.01	23.62	24.09	22.53	23.14	23.01	23.62	24.09
8H	4H	21.63	22.32	22.10	22.77	23.24	21.63	22.32	22.10	22.77	23.24
	6H	22.50	23.07	23.00	23.56	24.04	22.50	23.07	23.00	23.56	24.04
	8H	22.87	23.37	23.39	23.89	24.38	22.87	23.37	23.39	23.89	24.38
	12H	23.18	23.63	23.70	24.12	24.69	23.18	23.63	23.70	24.12	24.69
12H	4H	21.66	22.28	22.15	22.76	23.23	21.66	22.28	22.15	22.76	23.23
	6H	22.57	23.08	23.09	23.59	24.08	22.57	23.08	23.09	23.59	24.08
	8H	23.00	23.45	23.52	23.94	24.51	23.00	23.45	23.52	23.94	24.51