

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: P866137

Luminaire Tested: PRLX-2001-M-940-65L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-940-65L-L-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

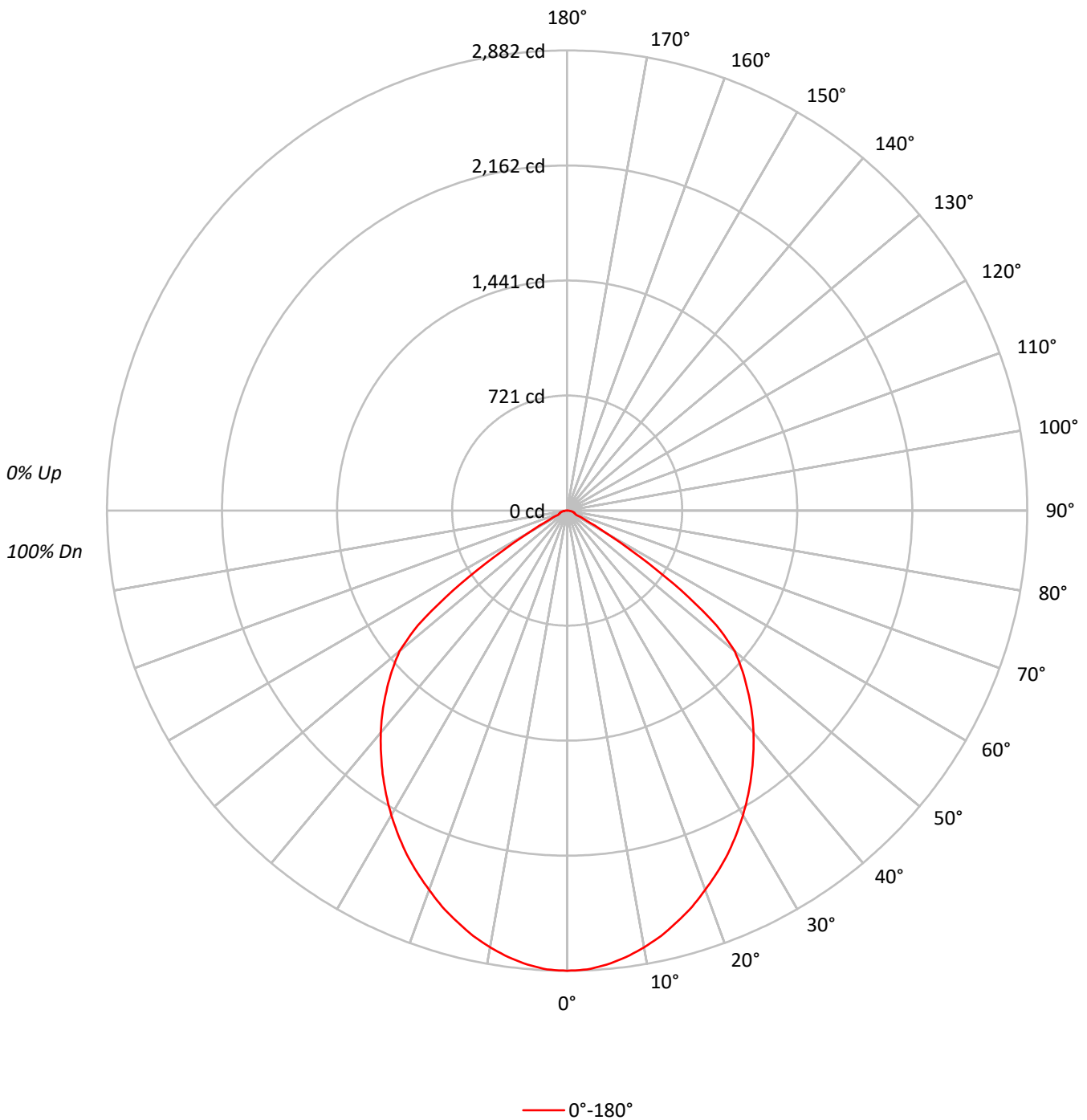
Lumens per Lamp: N/A
Luminaire Lumens: 5527.6 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85		89	86	83		86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74		81	76	73		78	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65		74	68	64		71	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58		67	61	57		65	60	57	55
6	77	65	58	52	75	65	57	52	63	56	51		61	56	51		60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46		56	50	46		55	50	46	44
8	67	55	47	42	66	54	47	42	53	46	42		52	46	42		51	45	41	40
9	63	51	43	38	62	50	43	38	49	42	38		48	42	38		47	42	38	36
10	59	47	40	35	58	46	39	35	45	39	35		45	39	35		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	24460
5°	24315
10°	23936
15°	23420
20°	22827
25°	22252
30°	21585
35°	20867
40°	20122
45°	19222
50°	18089
55°	12926
60°	4817
65°	1275
70°	1250
75°	1348
80°	1461
85°	1451

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19222 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.0	4.9
10°-20°	751.0	13.6
20°-30°	1093.4	19.8
30°-40°	1259.3	22.8
40°-50°	1233.7	22.3
50°-60°	757.6	13.7
60°-70°	103.1	1.9
70°-80°	43.1	0.8
80°-90°	16.3	0.3
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°	2114.4	38.3
0°-40°	3373.8	61.0
0°-60°	5365.1	97.1
0°-90°	5527.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5527.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2882	
5°	2854	270
15°	2666	751
25°	2376	1093
35°	2014	1259
45°	1602	1234
55°	874	758
65°	64	103
75°	41	43
85°	15	16
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2882.4
2.5°	2876.8
5°	2854.4
7.5°	2820.8
10°	2777.8
12.5°	2727.4
15°	2665.8
17.5°	2602.3
20°	2527.7
22.5°	2454.9
25°	2376.5
27.5°	2290.6
30°	2202.8
32.5°	2109.5
35°	2014.3
37.5°	1915.4
40°	1816.4
42.5°	1711.9
45°	1601.7
47.5°	1489.7
50°	1370.2
52.5°	1178.0
55°	873.7
57.5°	543.2
60°	283.8
62.5°	138.1
65°	63.5
67.5°	52.3
70°	50.4
72.5°	46.7
75°	41.1
77.5°	35.5
80°	29.9
82.5°	22.4
85°	14.9
87.5°	7.5
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	17.93	19.33	18.30	19.64	19.95	17.93	19.33	18.30	19.64	19.95
	3H	17.87	19.10	18.25	19.43	19.79	17.87	19.10	18.25	19.43	19.79
	4H	17.85	18.99	18.25	19.34	19.72	17.85	18.99	18.25	19.34	19.72
	6H	17.84	18.88	18.25	19.25	19.65	17.84	18.88	18.25	19.25	19.65
	8H	17.83	18.82	18.26	19.21	19.61	17.83	18.82	18.26	19.21	19.61
	12H	17.81	18.76	18.24	19.14	19.57	17.81	18.76	18.24	19.14	19.57
4H	2H	17.77	18.91	18.17	19.26	19.64	17.77	18.91	18.17	19.26	19.64
	3H	17.74	18.66	18.15	19.06	19.47	17.74	18.66	18.15	19.06	19.47
	4H	17.74	18.56	18.17	18.98	19.42	17.74	18.56	18.17	18.98	19.42
	6H	17.76	18.47	18.23	18.92	19.38	17.76	18.47	18.23	18.92	19.38
	8H	17.76	18.42	18.23	18.87	19.34	17.76	18.42	18.23	18.87	19.34
	12H	17.76	18.34	18.24	18.82	19.30	17.76	18.34	18.24	18.82	19.30
8H	4H	17.65	18.31	18.12	18.76	19.23	17.65	18.31	18.12	18.76	19.23
	6H	17.69	18.24	18.19	18.73	19.21	17.69	18.24	18.19	18.73	19.21
	8H	17.70	18.20	18.22	18.71	19.20	17.70	18.20	18.22	18.71	19.20
	12H	17.72	18.17	18.24	18.66	19.23	17.72	18.17	18.24	18.66	19.23
12H	4H	17.62	18.20	18.10	18.68	19.16	17.62	18.20	18.10	18.68	19.16
	6H	17.65	18.14	18.17	18.66	19.15	17.65	18.14	18.17	18.66	19.15
	8H	17.69	18.13	18.20	18.63	19.20	17.69	18.13	18.20	18.63	19.20