

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: P866195

Luminaire Tested: PRLX-2002-M-927-55L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-927-55L-L-U-S-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

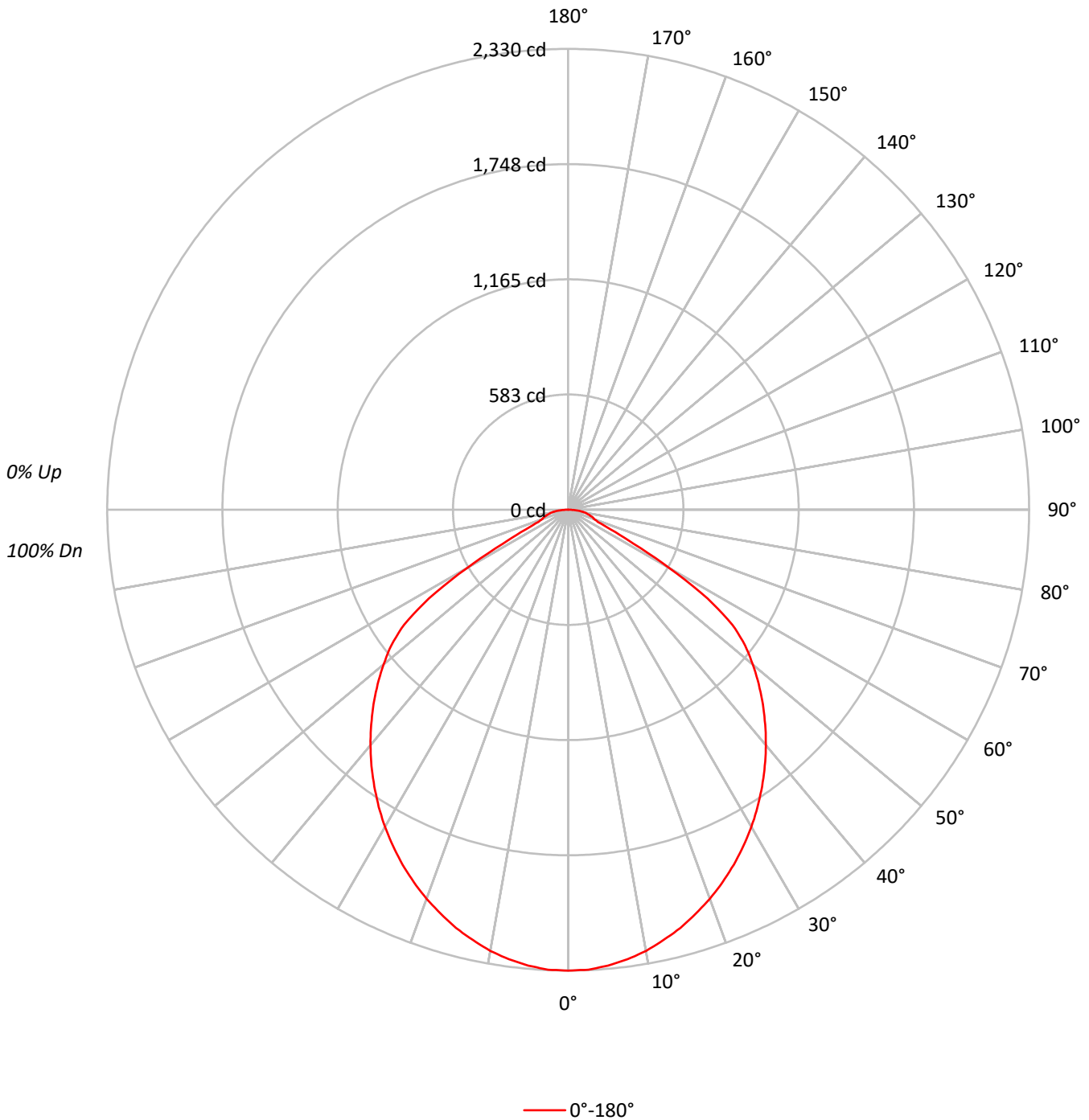
Lumens per Lamp: N/A
Luminaire Lumens: 5205.1 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
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	111	107	103	100	108	104	101	98	100	98	95		96	94	92		93	91	89	87
2	102	95	89	84	100	93	88	83	90	85	81		86	83	79		84	80	78	76
3	94	85	77	72	92	83	76	71	80	75	70		78	73	69		75	71	68	66
4	87	76	68	62	84	75	67	62	72	66	61		70	64	60		68	63	59	57
5	80	68	60	54	78	67	60	54	65	58	53		63	57	53		62	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47		58	51	47		56	51	46	44
7	69	56	48	42	67	56	48	42	54	47	42		53	46	42		51	46	41	40
8	64	52	44	38	63	51	43	38	50	43	38		48	42	38		47	42	37	36
9	60	47	40	34	59	47	39	34	46	39	34		45	38	34		44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31		41	35	31		41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	18541
5°	18478
10°	18297
15°	18034
20°	17723
25°	17383
30°	17012
35°	16589
40°	16145
45°	15654
50°	15079
55°	14052
60°	9437
65°	4465
70°	3277
75°	3517
80°	3899
85°	4327

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15654 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.3	4.2
10°-20°	616.8	11.9
20°-30°	911.9	17.5
30°-40°	1068.4	20.5
40°-50°	1072.5	20.6
50°-60°	865.6	16.6
60°-70°	279.8	5.4
70°-80°	120.8	2.3
80°-90°	49.9	1.0
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°	1748.1	33.6
0°-40°	2816.5	54.1
0°-60°	4754.5	91.3
0°-90°	5205.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5205.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2330	
5°	2314	219
15°	2190	617
25°	1980	912
35°	1708	1068
45°	1391	1072
55°	1013	866
65°	237	280
75°	114	121
85°	47	50
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2330.5
2.5°	2327.7
5°	2313.8
7.5°	2292.8
10°	2264.9
12.5°	2228.6
15°	2189.6
17.5°	2142.1
20°	2093.3
22.5°	2038.8
25°	1980.2
27.5°	1917.4
30°	1851.8
32.5°	1782.1
35°	1708.1
37.5°	1632.7
40°	1554.6
42.5°	1473.7
45°	1391.3
47.5°	1306.2
50°	1218.3
52.5°	1127.6
55°	1013.1
57.5°	835.9
60°	593.1
62.5°	371.2
65°	237.2
67.5°	163.3
70°	140.9
72.5°	129.8
75°	114.4
77.5°	100.5
80°	85.1
82.5°	68.4
85°	47.4
87.5°	25.1
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	20.88	22.38	21.25	22.69	23.01	20.88	22.38	21.25	22.69	23.01
	3H	20.99	22.32	21.37	22.65	23.01	20.99	22.32	21.37	22.65	23.01
	4H	21.08	22.32	21.48	22.67	23.05	21.08	22.32	21.48	22.67	23.05
	6H	21.19	22.33	21.60	22.70	23.09	21.19	22.33	21.60	22.70	23.09
	8H	21.25	22.33	21.67	22.72	23.13	21.25	22.33	21.67	22.72	23.13
	12H	21.29	22.34	21.72	22.72	23.15	21.29	22.34	21.72	22.72	23.15
4H	2H	20.84	22.09	21.24	22.44	22.82	20.84	22.09	21.24	22.44	22.82
	3H	21.05	22.06	21.46	22.47	22.87	21.05	22.06	21.46	22.47	22.87
	4H	21.20	22.11	21.64	22.53	22.97	21.20	22.11	21.64	22.53	22.97
	6H	21.43	22.21	21.88	22.66	23.12	21.43	22.21	21.88	22.66	23.12
	8H	21.53	22.27	21.99	22.71	23.18	21.53	22.27	21.99	22.71	23.18
	12H	21.63	22.29	22.11	22.77	23.24	21.63	22.29	22.11	22.77	23.24
8H	4H	21.22	21.96	21.69	22.40	22.87	21.22	21.96	21.69	22.40	22.87
	6H	21.52	22.13	22.02	22.63	23.10	21.52	22.13	22.02	22.63	23.10
	8H	21.69	22.24	22.20	22.75	23.24	21.69	22.24	22.20	22.75	23.24
	12H	21.86	22.36	22.37	22.85	23.42	21.86	22.36	22.37	22.85	23.42
12H	4H	21.21	21.87	21.69	22.35	22.82	21.21	21.87	21.69	22.35	22.82
	6H	21.52	22.08	22.04	22.59	23.08	21.52	22.08	22.04	22.59	23.08
	8H	21.74	22.24	22.25	22.73	23.30	21.74	22.24	22.25	22.73	23.30