

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: P866319

Luminaire Tested: PRLX-2002-M-935-55L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866319
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: Prenalux
Catalog Number: PRLX-2002-M-935-55L-G-U-S-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

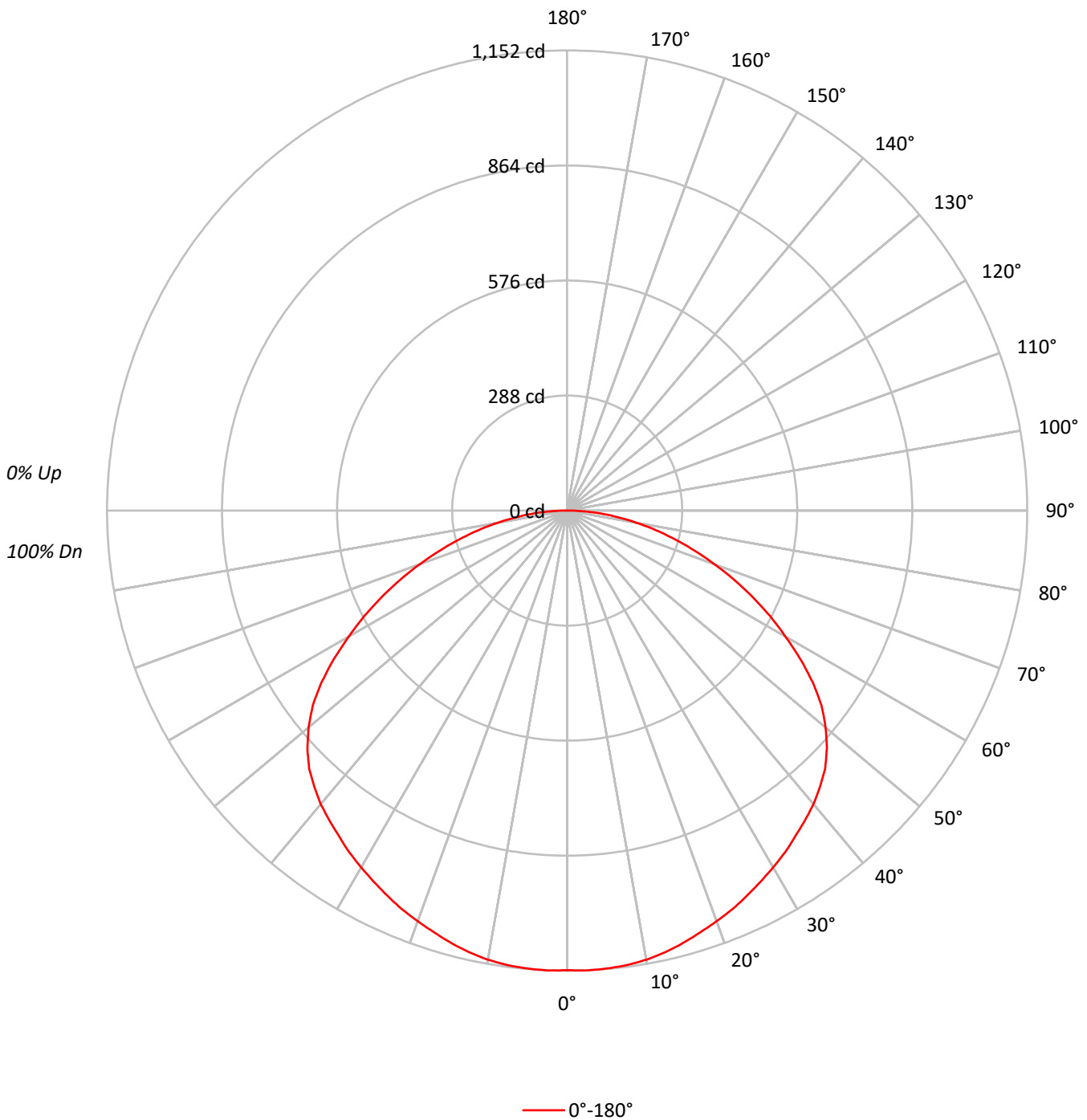
Lumens per Lamp: N/A
Luminaire Lumens: 3810.6 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.5
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
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°	9155
5°	9190
10°	9223
15°	9231
20°	9262
25°	9341
30°	9474
35°	9668
40°	9966
45°	10277
50°	10455
55°	10413
60°	10045
65°	9636
70°	9130
75°	8625
80°	8137
85°	7631

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 10493 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	2.9
10°-20°	316.7	8.3
20°-30°	491.5	12.9
30°-40°	624.7	16.4
40°-50°	702.6	18.4
50°-60°	667.5	17.5
60°-70°	507.0	13.3
70°-80°	298.0	7.8
80°-90°	93.2	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°	917.8	24.1
0°-40°	1542.5	40.5
0°-60°	2912.5	76.4
0°-90°	3810.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3810.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1151	
5°	1151	110
15°	1121	317
25°	1064	492
35°	996	625
45°	913	703
55°	751	667
65°	512	507
75°	281	298
85°	84	93
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1150.7
2.5°	1152.2
5°	1150.7
7.5°	1147.7
10°	1141.7
12.5°	1132.8
15°	1120.8
17.5°	1107.4
20°	1094.0
22.5°	1080.5
25°	1064.1
27.5°	1047.7
30°	1031.3
32.5°	1014.9
35°	995.5
37.5°	977.6
40°	959.6
42.5°	937.3
45°	913.4
47.5°	882.0
50°	844.7
52.5°	802.9
55°	750.7
57.5°	692.5
60°	631.3
62.5°	573.1
65°	511.9
67.5°	452.2
70°	392.5
72.5°	335.8
75°	280.6
77.5°	228.3
80°	177.6
82.5°	128.4
85°	83.6
87.5°	41.8
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	20.51	22.21	20.88	22.52	22.83	20.51	22.21	20.88	22.52	22.83
	3H	22.31	23.85	22.69	24.17	24.53	22.31	23.85	22.69	24.17	24.53
	4H	23.00	24.46	23.40	24.80	25.18	23.00	24.46	23.40	24.80	25.18
	6H	23.55	24.90	23.96	25.26	25.65	23.55	24.90	23.96	25.26	25.65
	8H	23.74	25.03	24.17	25.42	25.82	23.74	25.03	24.17	25.42	25.82
	12H	23.89	25.13	24.32	25.51	25.93	23.89	25.13	24.32	25.51	25.93
4H	2H	21.15	22.60	21.55	22.95	23.32	21.15	22.60	21.55	22.95	23.32
	3H	23.17	24.39	23.58	24.79	25.19	23.17	24.39	23.58	24.79	25.19
	4H	24.00	25.11	24.43	25.52	25.96	24.00	25.11	24.43	25.52	25.96
	6H	24.69	25.66	25.14	26.10	26.56	24.69	25.66	25.14	26.10	26.56
	8H	24.94	25.85	25.40	26.29	26.76	24.94	25.85	25.40	26.29	26.76
	12H	25.14	25.96	25.62	26.43	26.90	25.14	25.96	25.62	26.43	26.90
8H	4H	24.34	25.25	24.80	25.69	26.16	24.34	25.25	24.80	25.69	26.16
	6H	25.17	25.93	25.66	26.41	26.89	25.17	25.93	25.66	26.41	26.89
	8H	25.50	26.18	26.01	26.69	27.17	25.50	26.18	26.01	26.69	27.17
	12H	25.79	26.39	26.29	26.88	27.44	25.79	26.39	26.29	26.88	27.44
12H	4H	24.39	25.21	24.87	25.68	26.15	24.39	25.21	24.87	25.68	26.15
	6H	25.24	25.92	25.74	26.43	26.91	25.24	25.92	25.74	26.43	26.91
	8H	25.64	26.24	26.14	26.73	27.29	25.64	26.24	26.14	26.73	27.29