

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: P866063

Luminaire Tested: PRLX-2001-M-935-55L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-M-935-55L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

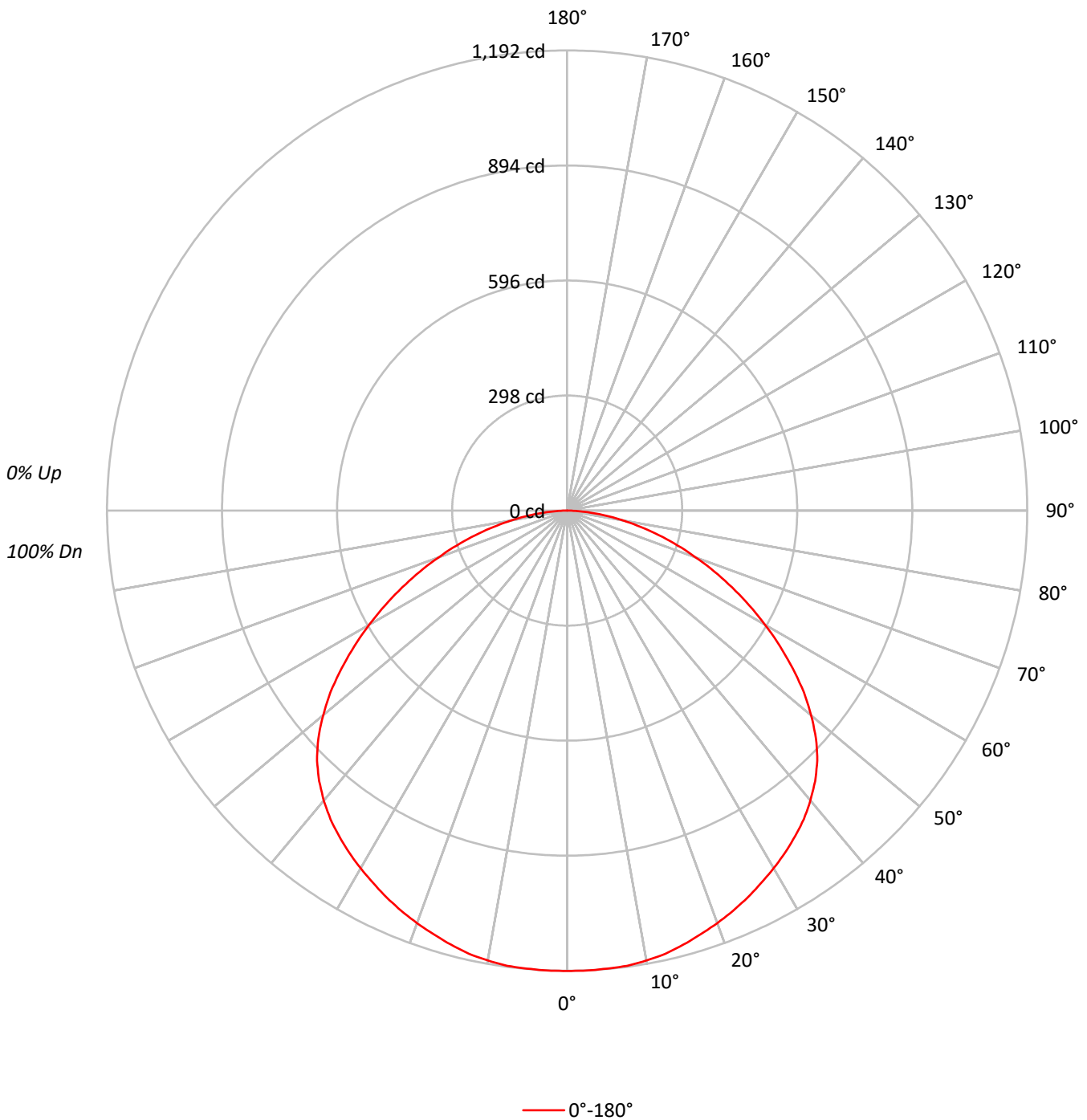
Lumens per Lamp: N/A
Luminaire Lumens: 3738.4 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.47
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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	109	104	99	95	106	101	97	94	97	94	91		93	91	88		90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39		51	44	39		50	44	39	37
7	64	50	41	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10120
5°	10145
10°	10198
15°	10227
20°	10271
25°	10355
30°	10486
35°	10668
40°	10862
45°	10998
50°	10896
55°	10555
60°	10056
65°	9470
70°	8776
75°	8076
80°	7150
85°	5813

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10998 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.5	3.0
10°-20°	328.9	8.8
20°-30°	510.5	13.7
30°-40°	644.9	17.3
40°-50°	704.0	18.8
50°-60°	637.0	17.0
60°-70°	467.4	12.5
70°-80°	261.1	7.0
80°-90°	71.1	1.9
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°	953.0	25.5
0°-40°	1597.9	42.7
0°-60°	2938.9	78.6
0°-90°	3738.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3738.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1192	
5°	1191	114
15°	1164	329
25°	1106	511
35°	1030	645
45°	916	704
55°	713	637
65°	472	467
75°	246	261
85°	60	71
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1192.5
2.5°	1192.5
5°	1191.0
7.5°	1189.5
10°	1183.5
12.5°	1176.1
15°	1164.1
17.5°	1150.7
20°	1137.3
22.5°	1122.3
25°	1105.9
27.5°	1088.0
30°	1070.1
32.5°	1050.7
35°	1029.8
37.5°	1007.4
40°	980.5
42.5°	950.7
45°	916.4
47.5°	874.6
50°	825.3
52.5°	773.1
55°	713.4
57.5°	653.7
60°	592.5
62.5°	531.3
65°	471.6
67.5°	413.4
70°	353.7
72.5°	300.0
75°	246.3
77.5°	194.0
80°	146.3
82.5°	101.5
85°	59.7
87.5°	26.9
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	20.44	22.10	20.80	22.42	22.73	20.44	22.10	20.80	22.42	22.73
	3H	22.13	23.63	22.51	23.96	24.32	22.13	23.63	22.51	23.96	24.32
	4H	22.76	24.18	23.16	24.52	24.90	22.76	24.18	23.16	24.52	24.90
	6H	23.21	24.53	23.62	24.89	25.28	23.21	24.53	23.62	24.89	25.28
	8H	23.36	24.61	23.78	25.00	25.40	23.36	24.61	23.78	25.00	25.40
	12H	23.45	24.65	23.88	25.03	25.46	23.45	24.65	23.88	25.03	25.46
4H	2H	21.04	22.46	21.44	22.81	23.18	21.04	22.46	21.44	22.81	23.18
	3H	22.95	24.14	23.36	24.54	24.94	22.95	24.14	23.36	24.54	24.94
	4H	23.71	24.78	24.14	25.20	25.63	23.71	24.78	24.14	25.20	25.63
	6H	24.29	25.23	24.74	25.67	26.12	24.29	25.23	24.74	25.67	26.12
	8H	24.48	25.36	24.94	25.80	26.27	24.48	25.36	24.94	25.80	26.27
	12H	24.61	25.40	25.09	25.88	26.35	24.61	25.40	25.09	25.88	26.35
8H	4H	24.00	24.89	24.46	25.33	25.79	24.00	24.89	24.46	25.33	25.79
	6H	24.70	25.44	25.19	25.92	26.40	24.70	25.44	25.19	25.92	26.40
	8H	24.96	25.62	25.47	26.12	26.61	24.96	25.62	25.47	26.12	26.61
	12H	25.16	25.74	25.67	26.23	26.79	25.16	25.74	25.67	26.23	26.79
12H	4H	24.04	24.83	24.52	25.30	25.77	24.04	24.83	24.52	25.30	25.77
	6H	24.75	25.41	25.26	25.92	26.40	24.75	25.41	25.26	25.92	26.40
	8H	25.07	25.65	25.57	26.14	26.70	25.07	25.65	25.57	26.14	26.70