

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: P866729

Luminaire Tested: PRLX-2001-L-930-100L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-65)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-L-930-100L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

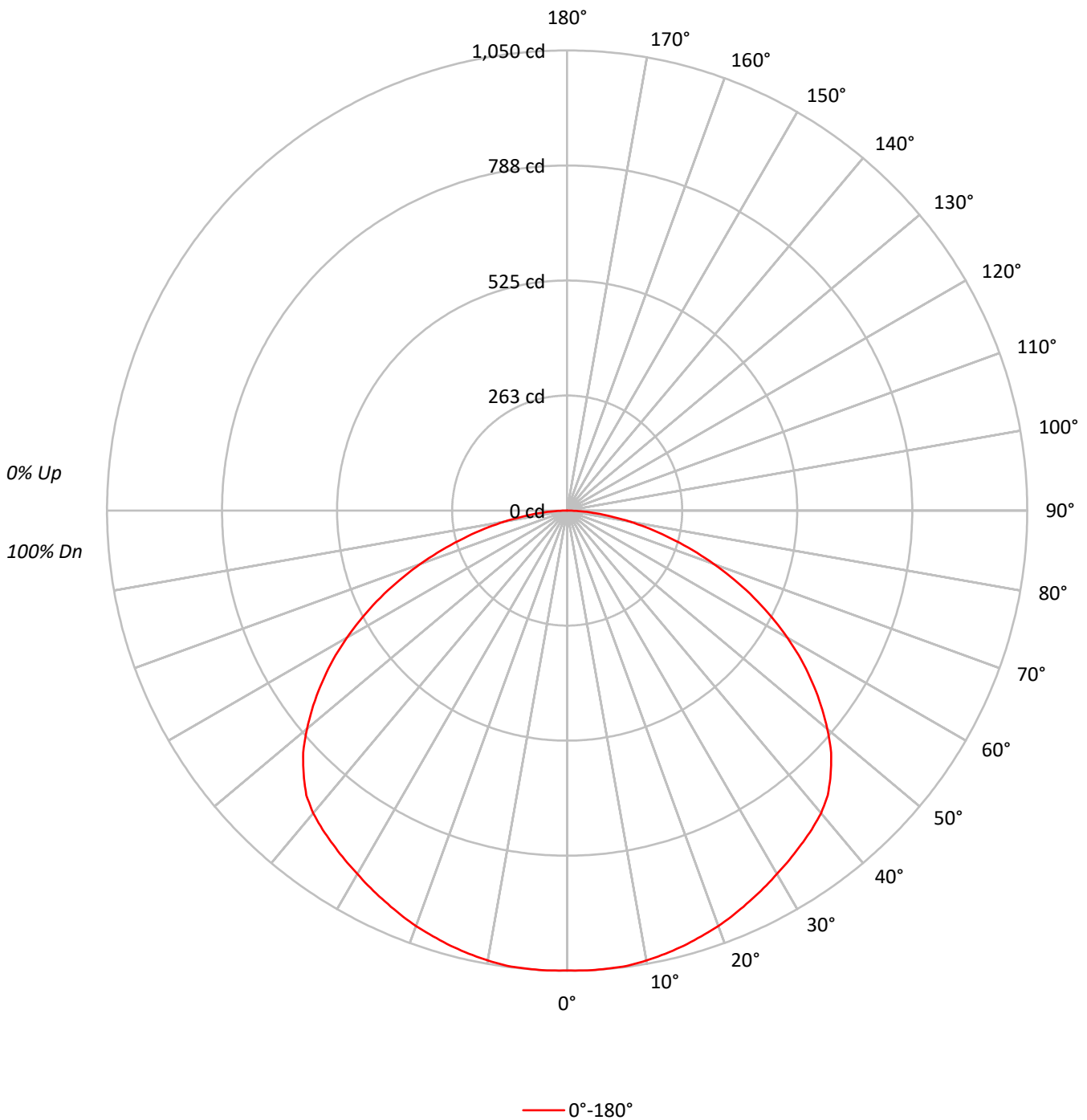
Lumens per Lamp: N/A
Luminaire Lumens: 3487.9 lumens
Efficiency: N/A
Efficacy: 43.9 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.51
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	67	59	52	65	58	52		63	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38		50	43	38		49	43	38	36
7	63	50	40	34	62	49	40	34	47	39	34		46	39	34		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	30	28
9	55	41	33	27	53	41	33	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5737
5°	5759
10°	5788
15°	5818
20°	5870
25°	5936
30°	6044
35°	6211
40°	6433
45°	6576
50°	6590
55°	6507
60°	6345
65°	6081
70°	5684
75°	5164
80°	4581
85°	3726

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 6612 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.0	2.9
10°-20°	290.6	8.3
20°-30°	454.7	13.0
30°-40°	583.8	16.7
40°-50°	654.4	18.8
50°-60°	609.3	17.5
60°-70°	464.5	13.3
70°-80°	260.8	7.5
80°-90°	69.9	2.0
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°	845.3	24.2
0°-40°	1429.1	41.0
0°-60°	2692.8	77.2
0°-90°	3487.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3487.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1050	
5°	1050	100
15°	1028	291
25°	984	455
35°	931	584
45°	851	654
55°	683	609
65°	470	464
75°	244	261
85°	59	70
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1049.5
2.5°	1050.4
5°	1049.5
7.5°	1047.8
10°	1042.6
12.5°	1035.7
15°	1028.0
17.5°	1018.5
20°	1009.0
22.5°	997.0
25°	984.1
27.5°	971.2
30°	957.4
32.5°	944.5
35°	930.7
37.5°	916.9
40°	901.4
42.5°	880.8
45°	850.6
47.5°	817.1
50°	774.9
52.5°	730.1
55°	682.7
57.5°	633.7
60°	580.3
62.5°	526.0
65°	470.1
67.5°	413.3
70°	355.6
72.5°	300.5
75°	244.5
77.5°	193.7
80°	145.5
82.5°	99.0
85°	59.4
87.5°	25.8
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	18.91	20.60	19.28	20.91	21.23	18.91	20.60	19.28	20.91	21.23
	3H	20.70	22.22	21.07	22.55	22.91	20.70	22.22	21.07	22.55	22.91
	4H	21.34	22.78	21.74	23.13	23.50	21.34	22.78	21.74	23.13	23.50
	6H	21.81	23.15	22.22	23.51	23.90	21.81	23.15	22.22	23.51	23.90
	8H	21.95	23.23	22.37	23.62	24.02	21.95	23.23	22.37	23.62	24.02
	12H	22.04	23.27	22.47	23.65	24.08	22.04	23.27	22.47	23.65	24.08
4H	2H	19.55	21.00	19.95	21.34	21.72	19.55	21.00	19.95	21.34	21.72
	3H	21.55	22.76	21.96	23.16	23.56	21.55	22.76	21.96	23.16	23.56
	4H	22.32	23.42	22.75	23.83	24.26	22.32	23.42	22.75	23.83	24.26
	6H	22.91	23.87	23.36	24.31	24.76	22.91	23.87	23.36	24.31	24.76
	8H	23.10	24.00	23.56	24.44	24.90	23.10	24.00	23.56	24.44	24.90
	12H	23.23	24.04	23.71	24.52	24.99	23.23	24.04	23.71	24.52	24.99
8H	4H	22.63	23.53	23.09	23.97	24.43	22.63	23.53	23.09	23.97	24.43
	6H	23.33	24.08	23.83	24.57	25.04	23.33	24.08	23.83	24.57	25.04
	8H	23.59	24.26	24.10	24.77	25.25	23.59	24.26	24.10	24.77	25.25
	12H	23.79	24.38	24.29	24.87	25.43	23.79	24.38	24.29	24.87	25.43
12H	4H	22.66	23.47	23.14	23.94	24.41	22.66	23.47	23.14	23.94	24.41
	6H	23.39	24.06	23.89	24.57	25.05	23.39	24.06	23.89	24.57	25.05
	8H	23.70	24.29	24.20	24.78	25.34	23.70	24.29	24.20	24.78	25.34