

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: P866801

Luminaire Tested: PRLX-2001-L-935-117L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866801
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: Prenalux
Catalog Number: PRLX-2001-L-935-117L-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 7
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

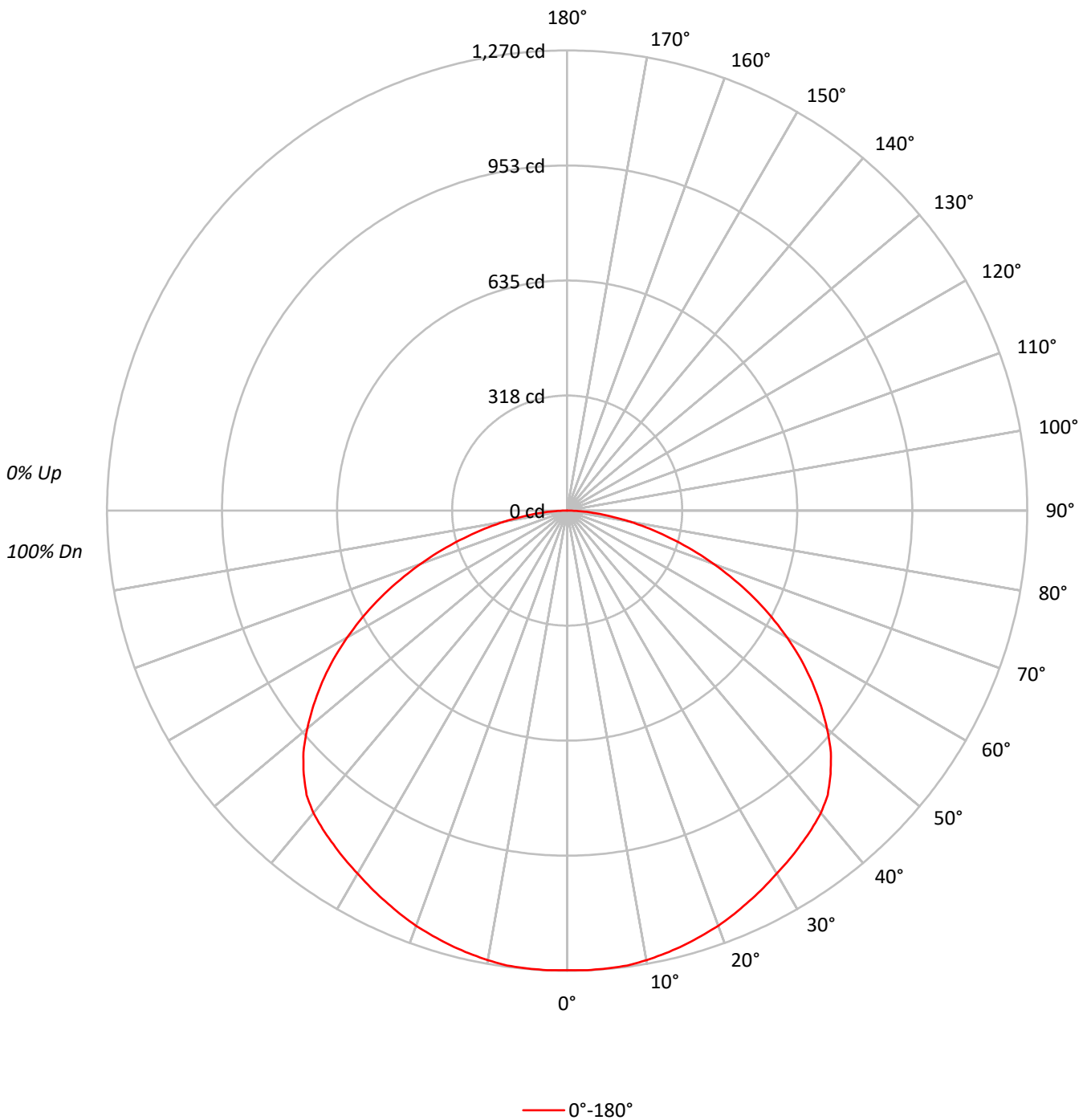
Lumens per Lamp: N/A
Luminaire Lumens: 4215.5 lumens
Efficiency: N/A
Efficacy: 44.3 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.51
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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°	6934
5°	6961
10°	6995
15°	7032
20°	7095
25°	7174
30°	7304
35°	7507
40°	7775
45°	7949
50°	7965
55°	7865
60°	7668
65°	7349
70°	6868
75°	6242
80°	5538
85°	4504

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 7991 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	2.9
10°-20°	351.3	8.3
20°-30°	549.5	13.0
30°-40°	705.6	16.7
40°-50°	790.9	18.8
50°-60°	736.4	17.5
60°-70°	561.3	13.3
70°-80°	315.2	7.5
80°-90°	84.5	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°	1021.6	24.2
0°-40°	1727.2	41.0
0°-60°	3254.5	77.2
0°-90°	4215.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4215.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1268	
5°	1268	121
15°	1242	351
25°	1189	550
35°	1125	706
45°	1028	791
55°	825	736
65°	568	561
75°	296	315
85°	72	85
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1268.4
2.5°	1269.5
5°	1268.4
7.5°	1266.4
10°	1260.1
12.5°	1251.8
15°	1242.4
17.5°	1231.0
20°	1219.5
22.5°	1205.0
25°	1189.3
27.5°	1173.7
30°	1157.1
32.5°	1141.5
35°	1124.8
37.5°	1108.2
40°	1089.5
42.5°	1064.5
45°	1028.1
47.5°	987.5
50°	936.5
52.5°	882.4
55°	825.2
57.5°	765.8
60°	701.3
62.5°	635.8
65°	568.1
67.5°	499.5
70°	429.7
72.5°	363.2
75°	295.5
77.5°	234.1
80°	175.9
82.5°	119.7
85°	71.8
87.5°	31.2
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	19.57	21.26	19.93	21.57	21.88	19.57	21.26	19.93	21.57	21.88
	3H	21.35	22.88	21.73	23.21	23.57	21.35	22.88	21.73	23.21	23.57
	4H	22.00	23.44	22.40	23.79	24.16	22.00	23.44	22.40	23.79	24.16
	6H	22.47	23.80	22.88	24.17	24.56	22.47	23.80	22.88	24.17	24.56
	8H	22.61	23.89	23.03	24.28	24.67	22.61	23.89	23.03	24.28	24.67
	12H	22.70	23.93	23.13	24.31	24.74	22.70	23.93	23.13	24.31	24.74
4H	2H	20.21	21.65	20.61	22.00	22.37	20.21	21.65	20.61	22.00	22.37
	3H	22.21	23.42	22.62	23.82	24.22	22.21	23.42	22.62	23.82	24.22
	4H	22.98	24.07	23.41	24.49	24.92	22.98	24.07	23.41	24.49	24.92
	6H	23.57	24.53	24.02	24.97	25.42	23.57	24.53	24.02	24.97	25.42
	8H	23.76	24.66	24.22	25.10	25.56	23.76	24.66	24.22	25.10	25.56
	12H	23.89	24.70	24.37	25.18	25.64	23.89	24.70	24.37	25.18	25.64
8H	4H	23.28	24.18	23.74	24.63	25.09	23.28	24.18	23.74	24.63	25.09
	6H	23.99	24.74	24.48	25.23	25.70	23.99	24.74	24.48	25.23	25.70
	8H	24.25	24.92	24.75	25.42	25.91	24.25	24.92	24.75	25.42	25.91
	12H	24.45	25.04	24.95	25.53	26.09	24.45	25.04	24.95	25.53	26.09
12H	4H	23.32	24.13	23.80	24.60	25.07	23.32	24.13	23.80	24.60	25.07
	6H	24.04	24.72	24.55	25.22	25.71	24.04	24.72	24.55	25.22	25.71
	8H	24.36	24.95	24.86	25.44	26.00	24.36	24.95	24.86	25.44	26.00