

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: P866817

Luminaire Tested: PRLX-2001-L-935-15L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866817
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-935-15L-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 1
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

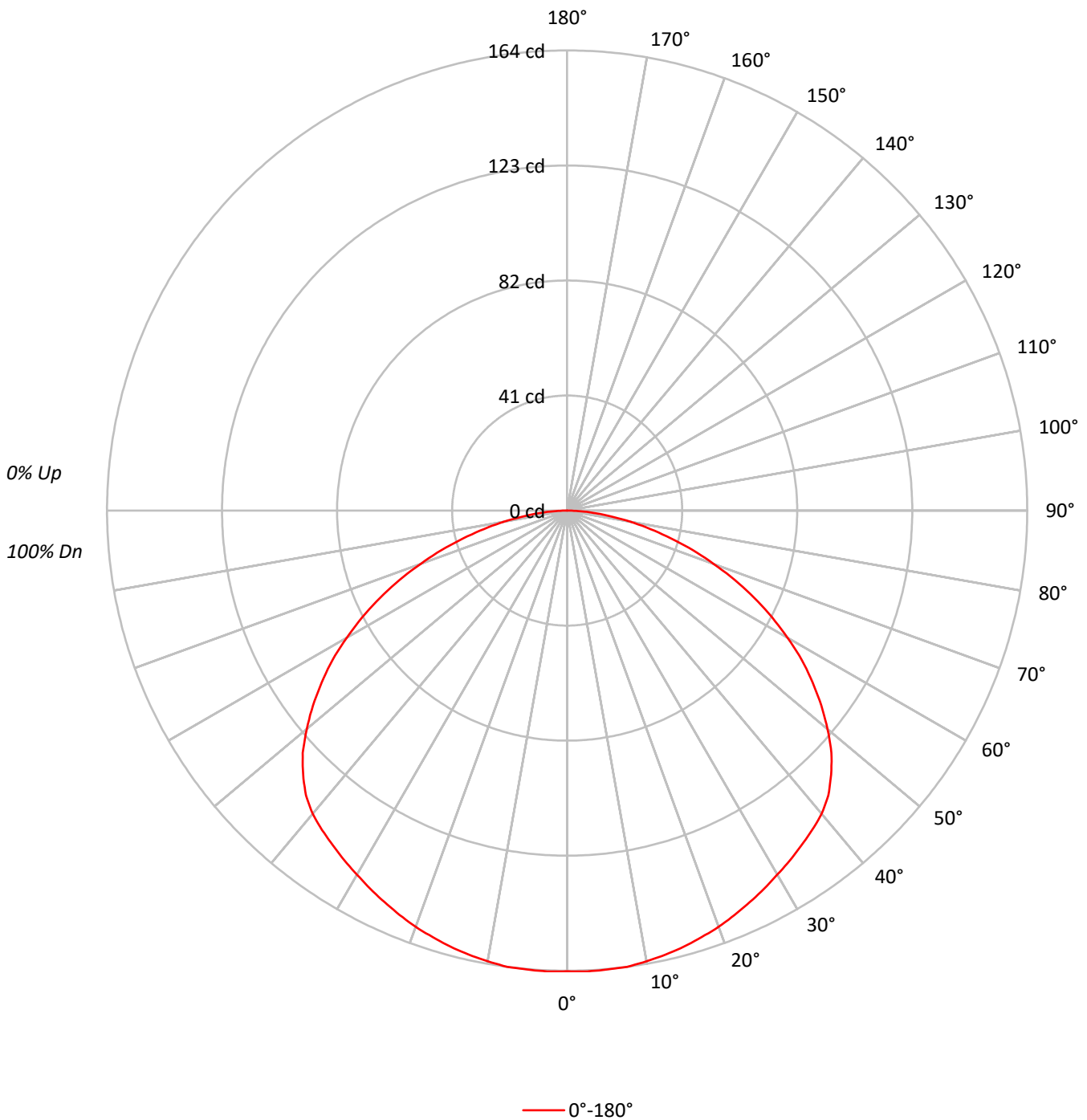
Lumens per Lamp: N/A
Luminaire Lumens: 545.8 lumens
Efficiency: N/A
Efficacy: 33.3 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.51
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
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°	898
5°	901
10°	905
15°	911
20°	919
25°	929
30°	946
35°	972
40°	1007
45°	1029
50°	1031
55°	1018
60°	993
65°	952
70°	889
75°	809
80°	718
85°	583

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 1034 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.6	2.9
10°-20°	45.5	8.3
20°-30°	71.2	13.0
30°-40°	91.4	16.7
40°-50°	102.4	18.8
50°-60°	95.3	17.5
60°-70°	72.7	13.3
70°-80°	40.8	7.5
80°-90°	10.9	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°	132.3	24.2
0°-40°	223.6	41.0
0°-60°	421.3	77.2
0°-90°	545.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	545.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	164	
5°	164	16
15°	161	45
25°	154	71
35°	146	91
45°	133	102
55°	107	95
65°	74	73
75°	38	41
85°	9	11
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	164.2
2.5°	164.4
5°	164.2
7.5°	164.0
10°	163.1
12.5°	162.1
15°	160.9
17.5°	159.4
20°	157.9
22.5°	156.0
25°	154.0
27.5°	152.0
30°	149.8
32.5°	147.8
35°	145.6
37.5°	143.5
40°	141.1
42.5°	137.8
45°	133.1
47.5°	127.8
50°	121.2
52.5°	114.2
55°	106.8
57.5°	99.2
60°	90.8
62.5°	82.3
65°	73.6
67.5°	64.7
70°	55.6
72.5°	47.0
75°	38.3
77.5°	30.3
80°	22.8
82.5°	15.5
85°	9.3
87.5°	4.0
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	12.47	14.16	12.83	14.47	14.79	12.47	14.16	12.83	14.47	14.79
	3H	14.25	15.78	14.63	16.11	16.47	14.25	15.78	14.63	16.11	16.47
	4H	14.90	16.34	15.30	16.69	17.06	14.90	16.34	15.30	16.69	17.06
	6H	15.37	16.70	15.78	17.07	17.46	15.37	16.70	15.78	17.07	17.46
	8H	15.51	16.79	15.93	17.18	17.57	15.51	16.79	15.93	17.18	17.57
	12H	15.60	16.83	16.03	17.21	17.64	15.60	16.83	16.03	17.21	17.64
4H	2H	13.11	14.55	13.51	14.90	15.27	13.11	14.55	13.51	14.90	15.27
	3H	15.11	16.32	15.52	16.72	17.11	15.11	16.32	15.52	16.72	17.11
	4H	15.88	16.97	16.31	17.39	17.82	15.88	16.97	16.31	17.39	17.82
	6H	16.47	17.43	16.92	17.87	18.32	16.47	17.43	16.92	17.87	18.32
	8H	16.66	17.56	17.12	18.00	18.46	16.66	17.56	17.12	18.00	18.46
	12H	16.79	17.60	17.27	18.07	18.54	16.79	17.60	17.27	18.07	18.54
8H	4H	16.18	17.08	16.64	17.52	17.99	16.18	17.08	16.64	17.52	17.99
	6H	16.89	17.64	17.38	18.13	18.60	16.89	17.64	17.38	18.13	18.60
	8H	17.15	17.82	17.65	18.32	18.81	17.15	17.82	17.65	18.32	18.81
	12H	17.35	17.94	17.85	18.43	18.99	17.35	17.94	17.85	18.43	18.99
12H	4H	16.22	17.03	16.70	17.50	17.97	16.22	17.03	16.70	17.50	17.97
	6H	16.94	17.62	17.45	18.12	18.61	16.94	17.62	17.45	18.12	18.61
	8H	17.25	17.85	17.76	18.34	18.90	17.25	17.85	17.76	18.34	18.90