

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: P866721

Luminaire Tested: PRLX-2001-L-927-83L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866721
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-927-83L-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 5
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

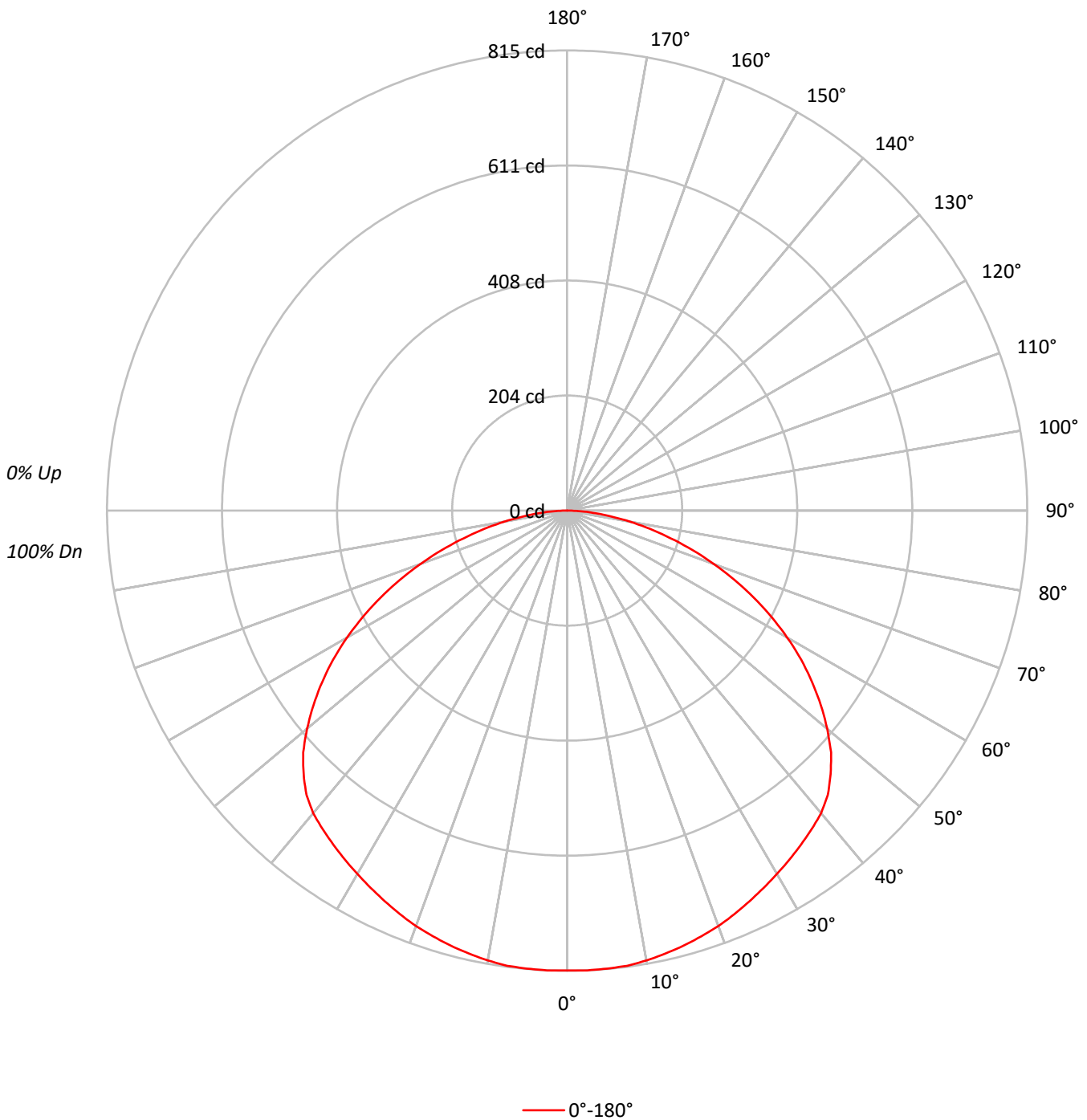
Lumens per Lamp: N/A
Luminaire Lumens: 2706.6 lumens
Efficiency: N/A
Efficacy: 42.0 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.51
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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	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°	4452
5°	4469
10°	4491
15°	4515
20°	4555
25°	4606
30°	4690
35°	4820
40°	4992
45°	5103
50°	5114
55°	5050
60°	4923
65°	4719
70°	4410
75°	4007
80°	3554
85°	2892

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 5130 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	2.9
10°-20°	225.5	8.3
20°-30°	352.8	13.0
30°-40°	453.0	16.7
40°-50°	507.8	18.8
50°-60°	472.8	17.5
60°-70°	360.4	13.3
70°-80°	202.4	7.5
80°-90°	54.2	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°	656.0	24.2
0°-40°	1109.0	41.0
0°-60°	2089.5	77.2
0°-90°	2706.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2706.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	814	
5°	814	78
15°	798	226
25°	764	353
35°	722	453
45°	660	508
55°	530	473
65°	365	360
75°	190	202
85°	46	54
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	814.4
2.5°	815.1
5°	814.4
7.5°	813.1
10°	809.1
12.5°	803.7
15°	797.7
17.5°	790.4
20°	783.0
22.5°	773.7
25°	763.6
27.5°	753.6
30°	742.9
32.5°	732.9
35°	722.2
37.5°	711.5
40°	699.5
42.5°	683.5
45°	660.1
47.5°	634.0
50°	601.3
52.5°	566.5
55°	529.8
57.5°	491.7
60°	450.3
62.5°	408.2
65°	364.8
67.5°	320.7
70°	275.9
72.5°	233.2
75°	189.7
77.5°	150.3
80°	112.9
82.5°	76.8
85°	46.1
87.5°	20.0
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	18.03	19.72	18.39	20.03	20.35	18.03	19.72	18.39	20.03	20.35
	3H	19.81	21.34	20.19	21.67	22.03	19.81	21.34	20.19	21.67	22.03
	4H	20.46	21.90	20.86	22.25	22.62	20.46	21.90	20.86	22.25	22.62
	6H	20.93	22.26	21.34	22.63	23.02	20.93	22.26	21.34	22.63	23.02
	8H	21.07	22.35	21.49	22.74	23.13	21.07	22.35	21.49	22.74	23.13
	12H	21.16	22.39	21.59	22.77	23.20	21.16	22.39	21.59	22.77	23.20
4H	2H	18.67	20.11	19.07	20.46	20.84	18.67	20.11	19.07	20.46	20.84
	3H	20.67	21.88	21.08	22.28	22.68	20.67	21.88	21.08	22.28	22.68
	4H	21.44	22.54	21.87	22.95	23.38	21.44	22.54	21.87	22.95	23.38
	6H	22.03	22.99	22.48	23.43	23.88	22.03	22.99	22.48	23.43	23.88
	8H	22.22	23.12	22.68	23.56	24.02	22.22	23.12	22.68	23.56	24.02
	12H	22.35	23.16	22.83	23.64	24.10	22.35	23.16	22.83	23.64	24.10
8H	4H	21.75	22.64	22.20	23.09	23.55	21.75	22.64	22.20	23.09	23.55
	6H	22.45	23.20	22.94	23.69	24.16	22.45	23.20	22.94	23.69	24.16
	8H	22.71	23.38	23.21	23.88	24.37	22.71	23.38	23.21	23.88	24.37
	12H	22.91	23.50	23.41	23.99	24.55	22.91	23.50	23.41	23.99	24.55
12H	4H	21.78	22.59	22.26	23.06	23.53	21.78	22.59	22.26	23.06	23.53
	6H	22.50	23.18	23.01	23.68	24.17	22.50	23.18	23.01	23.68	24.17
	8H	22.82	23.41	23.32	23.90	24.46	22.82	23.41	23.32	23.90	24.46