

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: P866913

Luminaire Tested: PRLX-2001-L-940-83L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866913
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-940-83L-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

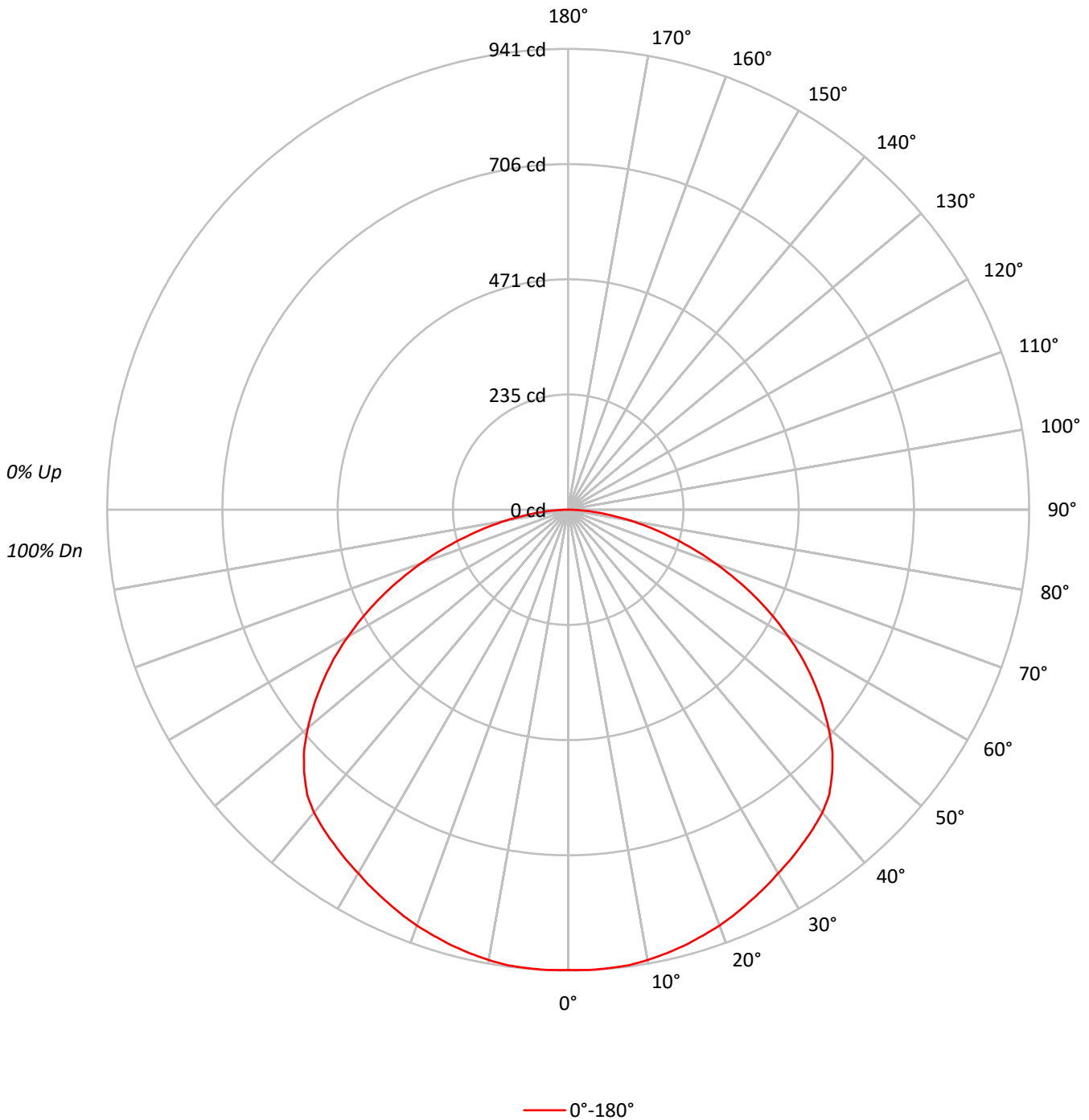
Lumens per Lamp: N/A
Luminaire Lumens: 3123.8 lumens
Efficiency: N/A
Efficacy: 48.4 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.51
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
Input Voltage (V): 120
Input Current (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°	5139
5°	5158
10°	5184
15°	5211
20°	5257
25°	5317
30°	5412
35°	5563
40°	5761
45°	5890
50°	5902
55°	5828
60°	5682
65°	5446
70°	5091
75°	4626
80°	4102
85°	3337

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 5922 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	2.9
10°-20°	260.3	8.3
20°-30°	407.2	13.0
30°-40°	522.8	16.7
40°-50°	586.0	18.8
50°-60°	545.7	17.5
60°-70°	415.9	13.3
70°-80°	233.6	7.5
80°-90°	62.6	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°	757.1	24.2
0°-40°	1279.9	41.0
0°-60°	2411.7	77.2
0°-90°	3123.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3123.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	940	
5°	940	90
15°	921	260
25°	881	407
35°	834	523
45°	762	586
55°	612	546
65°	421	416
75°	219	234
85°	53	63
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	940.0
2.5°	940.7
5°	940.0
7.5°	938.4
10°	933.8
12.5°	927.6
15°	920.7
17.5°	912.2
20°	903.7
22.5°	892.9
25°	881.4
27.5°	869.8
30°	857.4
32.5°	845.9
35°	833.5
37.5°	821.2
40°	807.3
42.5°	788.8
45°	761.8
47.5°	731.8
50°	694.0
52.5°	653.9
55°	611.5
57.5°	567.5
60°	519.7
62.5°	471.1
65°	421.0
67.5°	370.1
70°	318.5
72.5°	269.1
75°	219.0
77.5°	173.5
80°	130.3
82.5°	88.7
85°	53.2
87.5°	23.1
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	18.53	20.21	18.89	20.53	20.84	18.53	20.21	18.89	20.53	20.84
	3H	20.31	21.84	20.69	22.17	22.53	20.31	21.84	20.69	22.17	22.53
	4H	20.96	22.40	21.35	22.75	23.12	20.96	22.40	21.35	22.75	23.12
	6H	21.42	22.76	21.83	23.13	23.52	21.42	22.76	21.83	23.13	23.52
	8H	21.57	22.85	21.99	23.24	23.63	21.57	22.85	21.99	23.24	23.63
	12H	21.66	22.89	22.09	23.27	23.70	21.66	22.89	22.09	23.27	23.70
4H	2H	19.17	20.61	19.57	20.96	21.33	19.17	20.61	19.57	20.96	21.33
	3H	21.17	22.38	21.58	22.78	23.18	21.17	22.38	21.58	22.78	23.18
	4H	21.94	23.03	22.37	23.45	23.88	21.94	23.03	22.37	23.45	23.88
	6H	22.53	23.49	22.98	23.93	24.38	22.53	23.49	22.98	23.93	24.38
	8H	22.72	23.62	23.18	24.06	24.52	22.72	23.62	23.18	24.06	24.52
	12H	22.85	23.66	23.33	24.13	24.60	22.85	23.66	23.33	24.13	24.60
8H	4H	22.24	23.14	22.70	23.58	24.05	22.24	23.14	22.70	23.58	24.05
	6H	22.95	23.70	23.44	24.19	24.66	22.95	23.70	23.44	24.19	24.66
	8H	23.21	23.88	23.71	24.38	24.87	23.21	23.88	23.71	24.38	24.87
	12H	23.41	24.00	23.91	24.49	25.05	23.41	24.00	23.91	24.49	25.05
12H	4H	22.28	23.09	22.76	23.56	24.03	22.28	23.09	22.76	23.56	24.03
	6H	23.00	23.68	23.51	24.18	24.67	23.00	23.68	23.51	24.18	24.67
	8H	23.31	23.91	23.82	24.40	24.96	23.31	23.91	23.82	24.40	24.96