

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: P866905

Luminaire Tested: PRLX-2001-L-940-67L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866905
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-940-67L-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 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

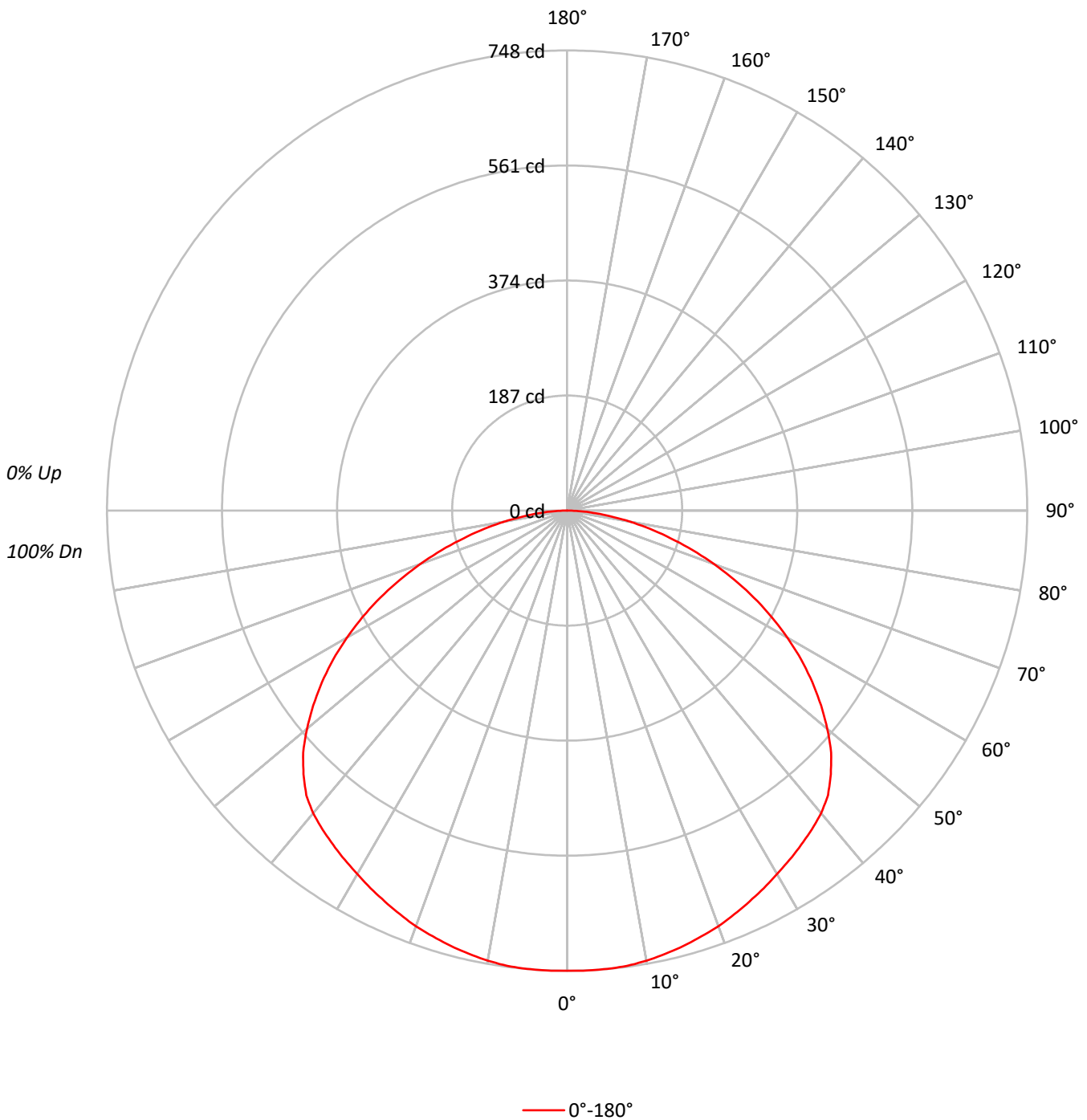
Lumens per Lamp: N/A
Luminaire Lumens: 2485.3 lumens
Efficiency: N/A
Efficacy: 49.3 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.51
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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°	4088
5°	4104
10°	4124
15°	4146
20°	4183
25°	4230
30°	4306
35°	4426
40°	4584
45°	4686
50°	4696
55°	4637
60°	4521
65°	4333
70°	4050
75°	3680
80°	3265
85°	2653

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 4711 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.2	2.9
10°-20°	207.1	8.3
20°-30°	324.0	13.0
30°-40°	416.0	16.7
40°-50°	466.2	18.8
50°-60°	434.2	17.5
60°-70°	331.0	13.3
70°-80°	185.8	7.5
80°-90°	49.8	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°	602.3	24.2
0°-40°	1018.3	41.0
0°-60°	1918.7	77.2
0°-90°	2485.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2485.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	748	
5°	748	71
15°	732	207
25°	701	324
35°	663	416
45°	606	466
55°	486	434
65°	335	331
75°	174	186
85°	42	50
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	747.8
2.5°	748.4
5°	747.8
7.5°	746.6
10°	742.9
12.5°	738.0
15°	732.5
17.5°	725.7
20°	719.0
22.5°	710.4
25°	701.2
27.5°	692.0
30°	682.2
32.5°	673.0
35°	663.2
37.5°	653.4
40°	642.3
42.5°	627.6
45°	606.1
47.5°	582.2
50°	552.1
52.5°	520.2
55°	486.5
57.5°	451.5
60°	413.5
62.5°	374.8
65°	335.0
67.5°	294.5
70°	253.4
72.5°	214.1
75°	174.2
77.5°	138.0
80°	103.7
82.5°	70.5
85°	42.3
87.5°	18.4
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	17.73	19.42	18.10	19.73	20.05	17.73	19.42	18.10	19.73	20.05
	3H	19.52	21.05	19.89	21.37	21.73	19.52	21.05	19.89	21.37	21.73
	4H	20.16	21.60	20.56	21.95	22.33	20.16	21.60	20.56	21.95	22.33
	6H	20.63	21.97	21.04	22.33	22.72	20.63	21.97	21.04	22.33	22.72
	8H	20.77	22.05	21.20	22.44	22.84	20.77	22.05	21.20	22.44	22.84
	12H	20.87	22.09	21.29	22.47	22.90	20.87	22.09	21.29	22.47	22.90
4H	2H	18.38	19.82	18.77	20.16	20.54	18.38	19.82	18.77	20.16	20.54
	3H	20.37	21.59	20.78	21.98	22.38	20.37	21.59	20.78	21.98	22.38
	4H	21.14	22.24	21.57	22.65	23.09	21.14	22.24	21.57	22.65	23.09
	6H	21.73	22.69	22.19	23.13	23.59	21.73	22.69	22.19	23.13	23.59
	8H	21.92	22.82	22.38	23.26	23.73	21.92	22.82	22.38	23.26	23.73
	12H	22.06	22.87	22.53	23.34	23.81	22.06	22.87	22.53	23.34	23.81
8H	4H	21.45	22.35	21.91	22.79	23.25	21.45	22.35	21.91	22.79	23.25
	6H	22.16	22.91	22.65	23.39	23.87	22.16	22.91	22.65	23.39	23.87
	8H	22.41	23.08	22.92	23.59	24.07	22.41	23.08	22.92	23.59	24.07
	12H	22.61	23.21	23.12	23.70	24.25	22.61	23.21	23.12	23.70	24.25
12H	4H	21.48	22.29	21.96	22.77	23.24	21.48	22.29	21.96	22.77	23.24
	6H	22.21	22.88	22.72	23.39	23.87	22.21	22.88	22.72	23.39	23.87
	8H	22.52	23.11	23.02	23.60	24.16	22.52	23.11	23.02	23.60	24.16