

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: P867369

Luminaire Tested: PRLX-2004-L-940-100L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-940-100L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

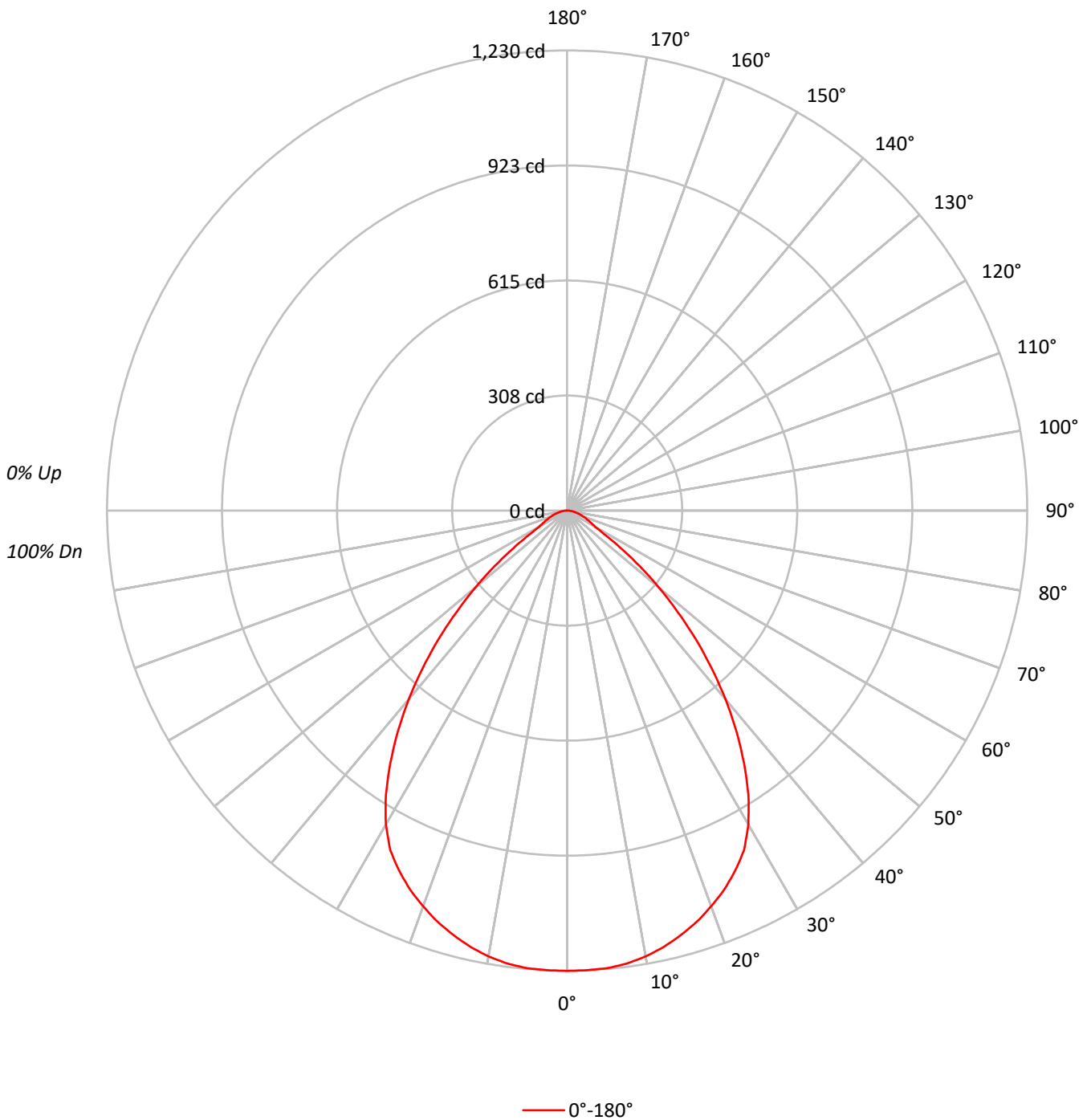
Lumens per Lamp: N/A
Luminaire Lumens: 2089.7 lumens
Efficiency: N/A
Efficacy: 26.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.17
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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: 0.5 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	112	108	105	102	109	106	103	101	102	100	97		98	96	95		95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86		90	87	84		87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76		82	78	74		80	76	73	71
4	91	81	74	69	89	80	73	68	78	72	67		75	70	67		73	69	66	64
5	85	74	67	61	83	73	66	61	71	65	60		69	64	60		68	63	59	57
6	79	68	61	55	77	67	60	55	65	59	55		64	58	54		62	58	54	52
7	74	63	55	50	72	62	55	50	60	54	49		59	53	49		58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45		55	49	45		54	49	45	43
9	65	54	46	42	64	53	46	42	52	46	41		51	45	41		50	45	41	39
10	62	50	43	38	60	49	43	38	48	42	38		48	42	38		47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6071
5°	6080
10°	6063
15°	6001
20°	5910
25°	5784
30°	5518
35°	4962
40°	4241
45°	3389
50°	2459
55°	1510
60°	853
65°	726
70°	643
75°	583
80°	528
85°	476

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3389 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	5.6
10°-20°	331.1	15.8
20°-30°	487.4	23.3
30°-40°	511.6	24.5
40°-50°	373.5	17.9
50°-60°	164.6	7.9
60°-70°	62.8	3.0
70°-80°	32.5	1.6
80°-90°	9.6	0.5
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°	935.1	44.7
0°-40°	1446.7	69.2
0°-60°	1984.8	95.0
0°-90°	2089.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2089.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1230	
5°	1228	117
15°	1175	331
25°	1062	487
35°	824	512
45°	486	373
55°	176	165
65°	62	63
75°	31	33
85°	8	10
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1230.5
2.5°	1229.6
5°	1227.7
7.5°	1221.2
10°	1210.1
12.5°	1194.3
15°	1174.8
17.5°	1152.5
20°	1125.6
22.5°	1096.8
25°	1062.4
27.5°	1023.4
30°	968.6
32.5°	901.8
35°	823.8
37.5°	743.0
40°	658.4
42.5°	572.1
45°	485.7
47.5°	400.3
50°	320.4
52.5°	245.2
55°	175.5
57.5°	118.9
60°	86.4
62.5°	73.4
65°	62.2
67.5°	52.9
70°	44.6
72.5°	37.1
75°	30.6
77.5°	24.1
80°	18.6
82.5°	13.9
85°	8.4
87.5°	3.7
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	9.10	10.40	9.47	10.71	11.03	9.10	10.40	9.47	10.71	11.03
	3H	9.98	11.13	10.36	11.46	11.83	9.98	11.13	10.36	11.46	11.83
	4H	10.33	11.40	10.74	11.75	12.14	10.33	11.40	10.74	11.75	12.14
	6H	10.59	11.58	11.01	11.95	12.34	10.59	11.58	11.01	11.95	12.34
	8H	10.69	11.62	11.12	12.01	12.41	10.69	11.62	11.12	12.01	12.41
	12H	10.74	11.63	11.18	12.02	12.45	10.74	11.63	11.18	12.02	12.45
4H	2H	9.33	10.40	9.73	10.75	11.13	9.33	10.40	9.73	10.75	11.13
	3H	10.43	11.30	10.84	11.70	12.10	10.43	11.30	10.84	11.70	12.10
	4H	10.89	11.67	11.33	12.09	12.53	10.89	11.67	11.33	12.09	12.53
	6H	11.28	11.95	11.74	12.39	12.86	11.28	11.95	11.74	12.39	12.86
	8H	11.41	12.04	11.88	12.49	12.96	11.41	12.04	11.88	12.49	12.96
	12H	11.51	12.06	12.00	12.55	13.02	11.51	12.06	12.00	12.55	13.02
8H	4H	11.03	11.65	11.50	12.10	12.57	11.03	11.65	11.50	12.10	12.57
	6H	11.51	12.03	12.02	12.52	13.00	11.51	12.03	12.02	12.52	13.00
	8H	11.72	12.18	12.24	12.70	13.19	11.72	12.18	12.24	12.70	13.19
	12H	11.89	12.30	12.40	12.79	13.36	11.89	12.30	12.40	12.79	13.36
12H	4H	11.02	11.57	11.51	12.06	12.53	11.02	11.57	11.51	12.06	12.53
	6H	11.53	11.99	12.05	12.51	13.00	11.53	11.99	12.05	12.51	13.00
	8H	11.79	12.20	12.30	12.69	13.26	11.79	12.20	12.30	12.69	13.26