

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: P867390

Luminaire Tested: PRLX-2004-L-940-15L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-86)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-L-940-15L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

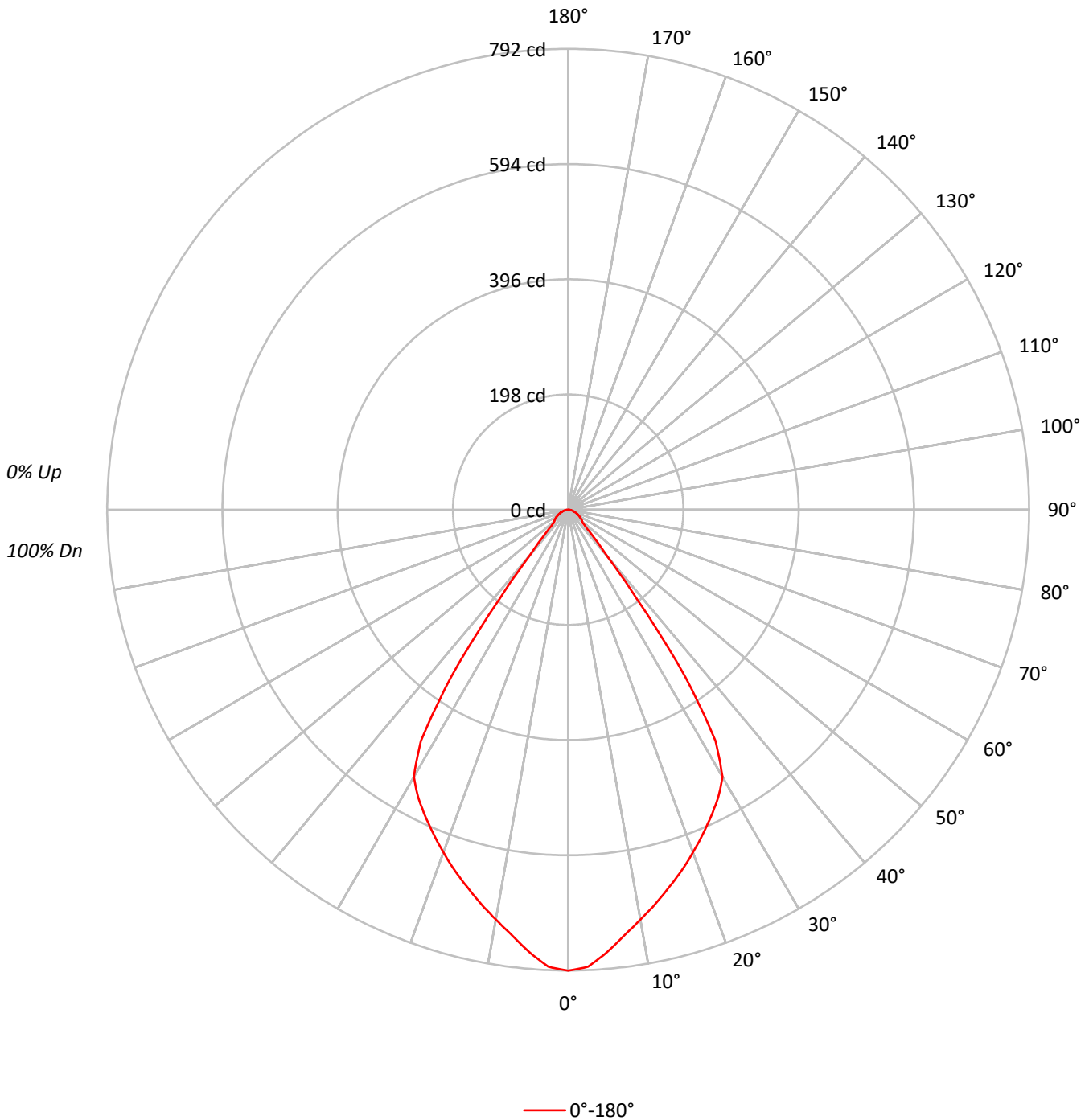
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 826.1 lumens
Efficiency: N/A
Efficacy: 50.4 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 0.98
Luminous Opening: Circular (Dia: 1.67' 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	113	110	107	104	110	108	105	103	103	101	100		100	98	97		96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90		93	90	88		90	88	86	84
3	101	94	88	84	99	92	87	83	89	85	82		87	83	80		85	82	79	77
4	95	87	81	76	93	86	80	76	83	79	75		81	77	74		79	76	73	71
5	90	81	74	70	88	80	74	69	78	73	69		76	72	68		75	71	68	66
6	85	75	69	64	83	74	68	64	73	68	64		71	67	63		70	66	63	61
7	80	70	64	59	79	70	64	59	68	63	59		67	62	59		66	62	58	57
8	76	66	60	55	75	65	59	55	64	59	55		63	58	55		62	58	54	53
9	72	62	56	51	71	62	55	51	61	55	51		60	55	51		59	54	51	49
10	69	58	52	48	68	58	52	48	57	52	48		56	51	48		56	51	48	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3909
5°	3782
10°	3584
15°	3428
20°	3292
25°	3163
30°	3021
35°	2116
40°	666
45°	323
50°	241
55°	232
60°	216
65°	201
70°	186
75°	173
80°	165
85°	153

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 323 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	8.6
10°-20°	189.1	22.9
20°-30°	267.4	32.4
30°-40°	203.6	24.6
40°-50°	40.9	5.0
50°-60°	24.0	2.9
60°-70°	17.1	2.1
70°-80°	9.7	1.2
80°-90°	3.0	0.4
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°	527.8	63.9
0°-40°	731.4	88.5
0°-60°	796.3	96.4
0°-90°	826.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	826.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	792	
5°	764	71
15°	671	189
25°	581	267
35°	351	204
45°	46	41
55°	27	24
65°	17	17
75°	9	10
85°	3	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	792.3
2.5°	786.3
5°	763.6
7.5°	738.0
10°	715.3
12.5°	693.5
15°	671.2
17.5°	649.8
20°	627.0
22.5°	603.9
25°	581.1
27.5°	558.1
30°	530.2
32.5°	471.3
35°	351.3
37.5°	194.2
40°	103.4
42.5°	68.4
45°	46.3
47.5°	33.3
50°	31.4
52.5°	29.4
55°	27.0
57.5°	24.3
60°	21.9
62.5°	19.4
65°	17.2
67.5°	15.0
70°	12.9
72.5°	11.0
75°	9.1
77.5°	7.5
80°	5.8
82.5°	4.2
85°	2.7
87.5°	1.3
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	1.70	2.75	2.06	3.06	3.38	1.70	2.75	2.06	3.06	3.38
	3H	3.26	4.19	3.64	4.52	4.89	3.26	4.19	3.64	4.52	4.89
	4H	3.85	4.71	4.26	5.06	5.45	3.85	4.71	4.26	5.06	5.45
	6H	4.31	5.10	4.73	5.48	5.87	4.31	5.10	4.73	5.48	5.87
	8H	4.47	5.21	4.90	5.60	6.01	4.47	5.21	4.90	5.60	6.01
	12H	4.57	5.28	5.01	5.66	6.10	4.57	5.28	5.01	5.66	6.10
4H	2H	2.17	3.03	2.57	3.38	3.77	2.17	3.03	2.57	3.38	3.77
	3H	3.94	4.64	4.35	5.05	5.46	3.94	4.64	4.35	5.05	5.46
	4H	4.65	5.28	5.09	5.70	6.15	4.65	5.28	5.09	5.70	6.15
	6H	5.25	5.79	5.72	6.24	6.71	5.25	5.79	5.72	6.24	6.71
	8H	5.45	5.95	5.92	6.40	6.88	5.45	5.95	5.92	6.40	6.88
	12H	5.59	6.03	6.09	6.52	7.00	5.59	6.03	6.09	6.52	7.00
8H	4H	4.87	5.38	5.35	5.83	6.30	4.87	5.38	5.35	5.83	6.30
	6H	5.61	6.01	6.12	6.51	7.00	5.61	6.01	6.12	6.51	7.00
	8H	5.90	6.25	6.43	6.77	7.27	5.90	6.25	6.43	6.77	7.27
	12H	6.14	6.45	6.66	6.94	7.52	6.14	6.45	6.66	6.94	7.52
12H	4H	4.88	5.31	5.37	5.80	6.28	4.88	5.31	5.37	5.80	6.28
	6H	5.65	6.00	6.18	6.53	7.02	5.65	6.00	6.18	6.53	7.02
	8H	6.00	6.30	6.52	6.80	7.38	6.00	6.30	6.52	6.80	7.38