

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: P867006

Luminaire Tested: PRLX-2002-L-930-15L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-82)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-930-15L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

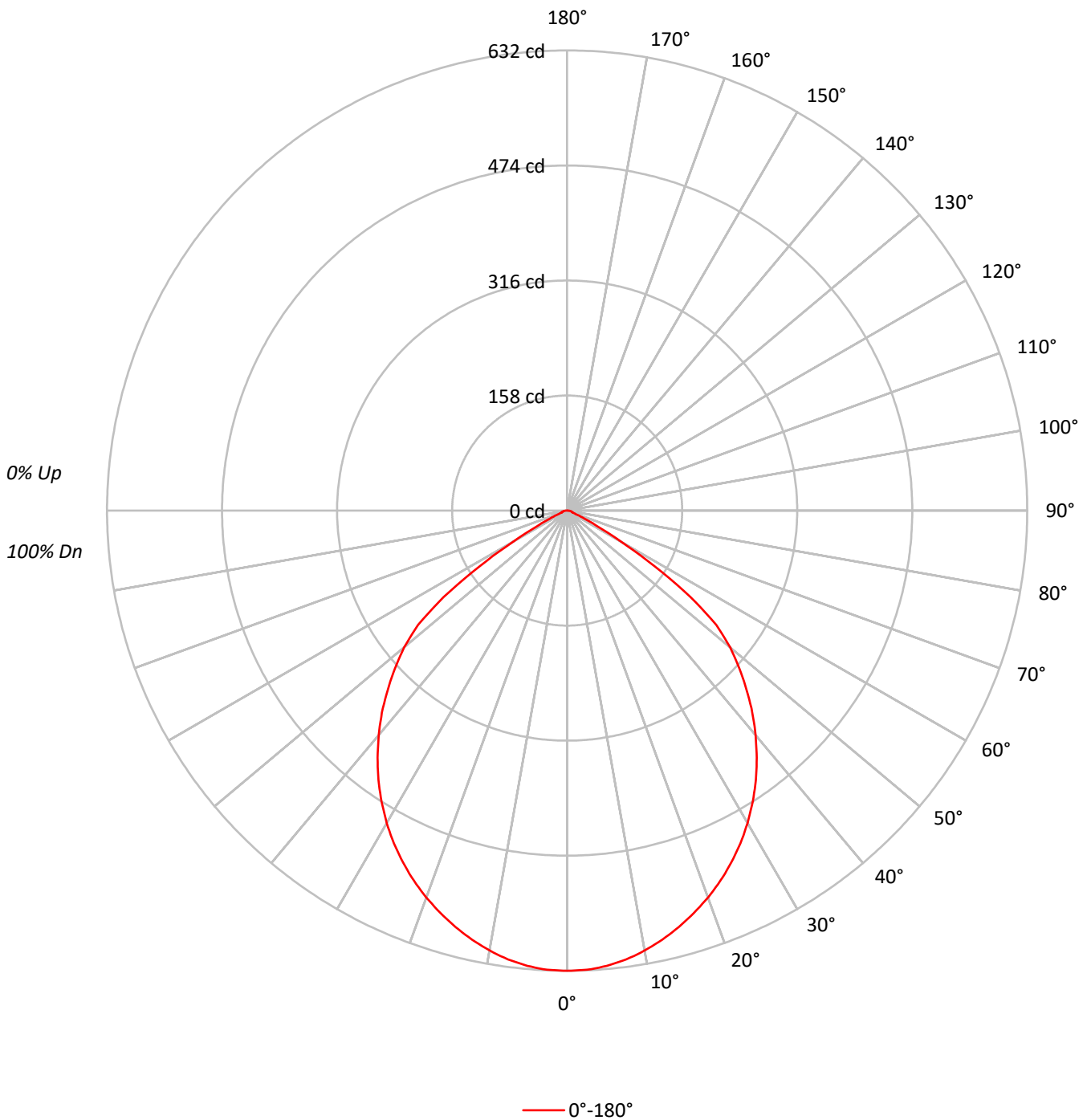
Lumens per Lamp: N/A
Luminaire Lumens: 1242.1 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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: 0.5 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	100	102	99	97		98	96	94		94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	84		89	86	83		86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74		81	76	73		78	75	71	69
4	89	79	72	66	87	78	71	66	75	70	65		73	68	64		71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57		67	61	57		65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51		61	55	51		60	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46		56	50	46		55	49	45	43
8	67	55	47	42	65	54	47	42	53	46	41		52	46	41		50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38		48	42	37		47	41	37	36
10	59	47	39	35	58	46	39	34	45	39	34		44	38	34		43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3118
5°	3109
10°	3074
15°	3025
20°	2970
25°	2904
30°	2823
35°	2722
40°	2592
45°	2433
50°	2242
55°	1782
60°	839
65°	302
70°	117
75°	130
80°	148
85°	175

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2433 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	4.8
10°-20°	166.9	13.4
20°-30°	245.5	19.8
30°-40°	282.0	22.7
40°-50°	268.6	21.6
50°-60°	176.7	14.2
60°-70°	32.6	2.6
70°-80°	7.1	0.6
80°-90°	3.2	0.3
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°	471.8	38.0
0°-40°	753.9	60.7
0°-60°	1199.2	96.5
0°-90°	1242.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1242.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	632	
5°	628	59
15°	592	167
25°	534	245
35°	452	282
45°	349	269
55°	207	177
65°	26	33
75°	7	7
85°	3	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	632.0
2.5°	631.3
5°	627.7
7.5°	621.8
10°	613.6
12.5°	603.6
15°	592.2
17.5°	579.4
20°	565.6
22.5°	550.2
25°	533.5
27.5°	515.3
30°	495.5
32.5°	474.2
35°	452.0
37.5°	427.8
40°	402.5
42.5°	376.6
45°	348.7
47.5°	321.0
50°	292.1
52.5°	258.2
55°	207.2
57.5°	142.0
60°	85.0
62.5°	47.9
65°	25.9
67.5°	13.0
70°	8.1
72.5°	7.4
75°	6.8
77.5°	6.1
80°	5.2
82.5°	4.3
85°	3.1
87.5°	1.7
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	11.94	13.35	12.31	13.66	13.97	11.94	13.35	12.31	13.66	13.97
	3H	11.86	13.10	12.24	13.43	13.79	11.86	13.10	12.24	13.43	13.79
	4H	11.81	12.96	12.21	13.31	13.69	11.81	12.96	12.21	13.31	13.69
	6H	11.77	12.82	12.18	13.19	13.58	11.77	12.82	12.18	13.19	13.58
	8H	11.74	12.74	12.17	13.13	13.53	11.74	12.74	12.17	13.13	13.53
	12H	11.71	12.67	12.15	13.05	13.48	11.71	12.67	12.15	13.05	13.48
4H	2H	11.82	12.97	12.22	13.32	13.70	11.82	12.97	12.22	13.32	13.70
	3H	11.75	12.67	12.16	13.08	13.48	11.75	12.67	12.16	13.08	13.48
	4H	11.70	12.52	12.13	12.94	13.38	11.70	12.52	12.13	12.94	13.38
	6H	11.67	12.38	12.13	12.82	13.29	11.67	12.38	12.13	12.82	13.29
	8H	11.64	12.30	12.11	12.75	13.22	11.64	12.30	12.11	12.75	13.22
	12H	11.62	12.21	12.10	12.69	13.16	11.62	12.21	12.10	12.69	13.16
8H	4H	11.59	12.25	12.05	12.69	13.16	11.59	12.25	12.05	12.69	13.16
	6H	11.55	12.09	12.05	12.59	13.07	11.55	12.09	12.05	12.59	13.07
	8H	11.52	12.02	12.04	12.53	13.02	11.52	12.02	12.04	12.53	13.02
	12H	11.52	11.96	12.03	12.46	13.03	11.52	11.96	12.03	12.46	13.03
12H	4H	11.54	12.13	12.03	12.61	13.09	11.54	12.13	12.03	12.61	13.09
	6H	11.49	11.99	12.01	12.50	12.99	11.49	11.99	12.01	12.50	12.99
	8H	11.49	11.94	12.01	12.43	13.00	11.49	11.94	12.01	12.43	13.00