

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: P866718

Luminaire Tested: PRLX-2001-L-927-83L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-78)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-927-83L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

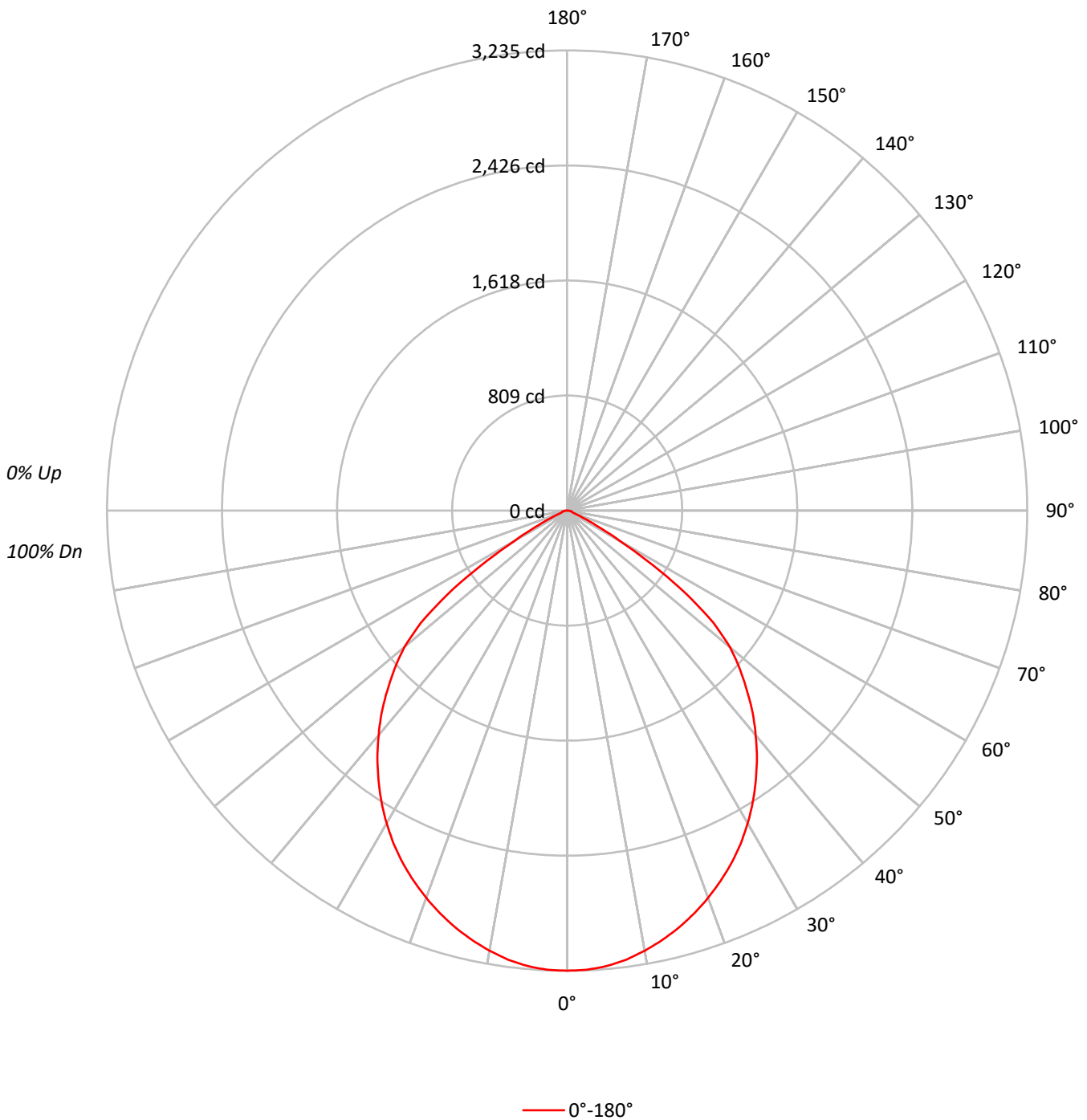
Lumens per Lamp: N/A
Luminaire Lumens: 6353.5 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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: 0.5 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	49
7	72	60	52	46	70	59	51	46	57	51	46		56	50	46		55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	41		52	46	41		51	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	35	45	39	34		44	38	34		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	17685
5°	17635
10°	17442
15°	17178
20°	16857
25°	16490
30°	16026
35°	15436
40°	14718
45°	13822
50°	12700
55°	9807
60°	4741
65°	1789
70°	705
75°	775
80°	885
85°	1004

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13822 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.5	4.8
10°-20°	855.1	13.5
20°-30°	1257.7	19.8
30°-40°	1444.5	22.7
40°-50°	1377.0	21.7
50°-60°	888.9	14.0
60°-70°	170.8	2.7
70°-80°	38.4	0.6
80°-90°	16.5	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°	2417.4	38.0
0°-40°	3861.8	60.8
0°-60°	6127.8	96.4
0°-90°	6353.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6353.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3235	
5°	3214	304
15°	3035	855
25°	2734	1258
35°	2313	1444
45°	1788	1377
55°	1029	889
65°	138	171
75°	37	38
85°	16	17
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3234.9
2.5°	3230.9
5°	3213.5
7.5°	3184.1
10°	3142.1
12.5°	3091.9
15°	3035.2
17.5°	2969.7
20°	2897.5
22.5°	2818.0
25°	2733.8
27.5°	2641.0
30°	2538.8
32.5°	2429.2
35°	2312.9
37.5°	2192.0
40°	2062.4
42.5°	1932.1
45°	1787.8
47.5°	1645.5
50°	1493.2
52.5°	1296.1
55°	1028.9
57.5°	716.9
60°	433.6
62.5°	248.5
65°	138.3
67.5°	72.2
70°	44.1
72.5°	40.1
75°	36.7
77.5°	32.7
80°	28.1
82.5°	22.7
85°	16.0
87.5°	8.0
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	17.88	19.29	18.25	19.60	19.91	17.88	19.29	18.25	19.60	19.91
	3H	17.81	19.04	18.19	19.37	19.74	17.81	19.04	18.19	19.37	19.74
	4H	17.76	18.91	18.17	19.26	19.64	17.76	18.91	18.17	19.26	19.64
	6H	17.72	18.77	18.13	19.14	19.53	17.72	18.77	18.13	19.14	19.53
	8H	17.70	18.69	18.12	19.08	19.49	17.70	18.69	18.12	19.08	19.49
	12H	17.67	18.62	18.10	19.01	19.44	17.67	18.62	18.10	19.01	19.44
4H	2H	17.77	18.91	18.17	19.26	19.64	17.77	18.91	18.17	19.26	19.64
	3H	17.71	18.63	18.12	19.03	19.44	17.71	18.63	18.12	19.03	19.44
	4H	17.66	18.48	18.09	18.90	19.34	17.66	18.48	18.09	18.90	19.34
	6H	17.63	18.34	18.10	18.79	19.25	17.63	18.34	18.10	18.79	19.25
	8H	17.61	18.27	18.08	18.72	19.19	17.61	18.27	18.08	18.72	19.19
	12H	17.59	18.18	18.08	18.66	19.13	17.59	18.18	18.08	18.66	19.13
8H	4H	17.55	18.21	18.02	18.66	19.13	17.55	18.21	18.02	18.66	19.13
	6H	17.52	18.06	18.02	18.56	19.04	17.52	18.06	18.02	18.56	19.04
	8H	17.50	17.99	18.02	18.51	19.00	17.50	17.99	18.02	18.51	19.00
	12H	17.50	17.94	18.01	18.44	19.01	17.50	17.94	18.01	18.44	19.01
12H	4H	17.51	18.10	17.99	18.58	19.05	17.51	18.10	17.99	18.58	19.05
	6H	17.47	17.96	17.99	18.47	18.97	17.47	17.96	17.99	18.47	18.97
	8H	17.47	17.91	17.98	18.41	18.98	17.47	17.91	17.98	18.41	18.98