

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: P867128

Luminaire Tested: PRLX-2002-L-940-133L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-71)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-940-133L-G-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

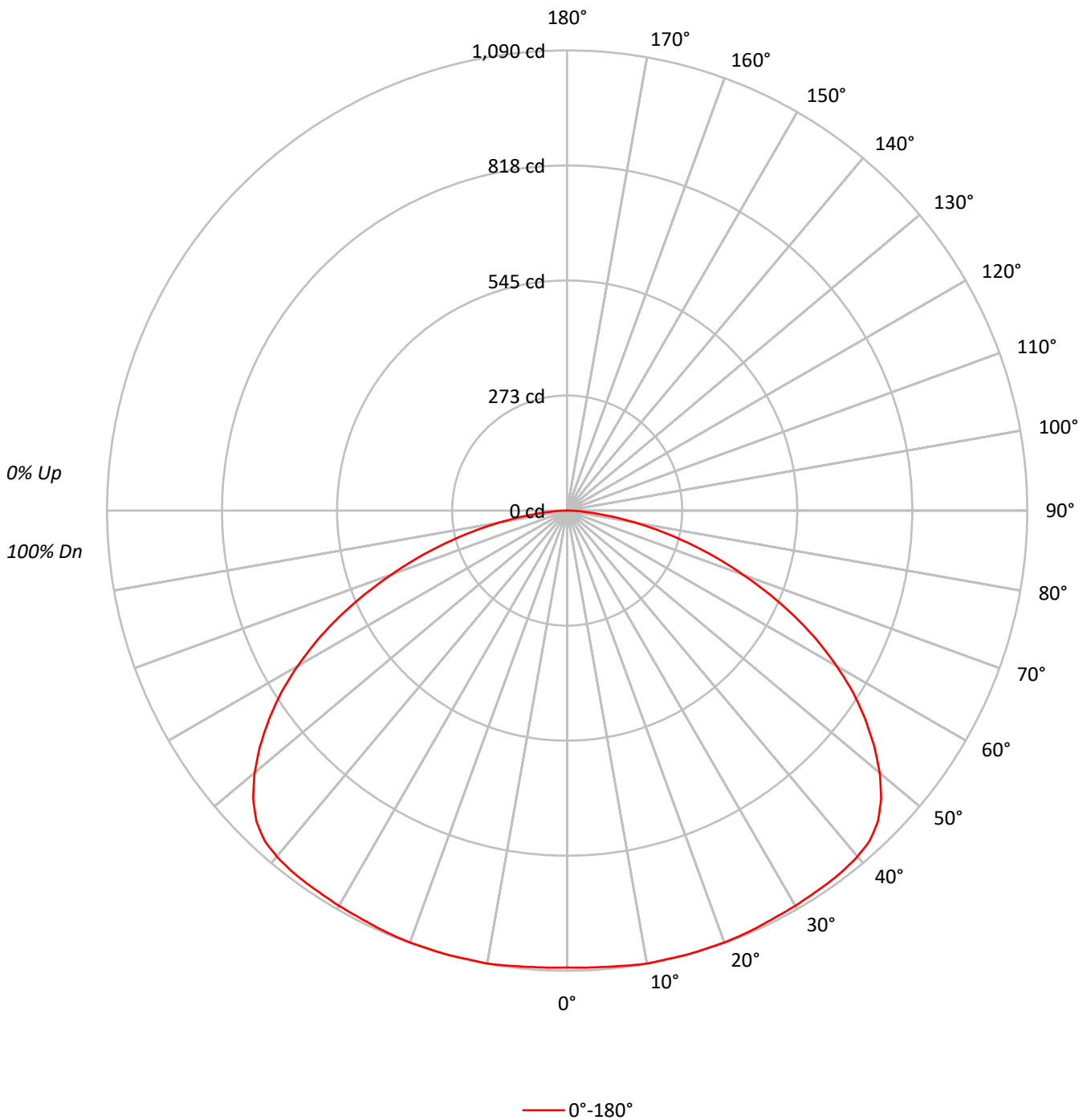
Lumens per Lamp: N/A
Luminaire Lumens: 4130.4 lumens
Efficiency: N/A
Efficacy: 36.9 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.65
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
Input Voltage (V): 120
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58
4	81	68	59	52	78	67	58	51	64	56	51	62	55	50	59	54	49
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	48	41	36
7	63	48	39	33	61	48	39	33	46	38	32	44	37	32	43	37	32
8	58	44	35	29	56	43	35	29	42	34	29	41	34	28	39	33	28
9	54	40	32	26	53	39	31	26	38	31	26	37	30	25	36	30	25
10	50	37	29	23	49	36	28	23	35	28	23	34	28	23	33	27	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5339
5°	5372
10°	5459
15°	5566
20°	5715
25°	5905
30°	6159
35°	6488
40°	6890
45°	7265
50°	7419
55°	7415
60°	7278
65°	6956
70°	6388
75°	5667
80°	4631
85°	3097

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 7430 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	2.5
10°-20°	308.7	7.5
20°-30°	502.0	12.2
30°-40°	676.1	16.4
40°-50°	798.4	19.3
50°-60°	768.4	18.6
60°-70°	587.5	14.2
70°-80°	315.5	7.6
80°-90°	70.2	1.7
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°	914.3	22.1
0°-40°	1590.4	38.5
0°-60°	3157.2	76.4
0°-90°	4130.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4130.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1082	
5°	1085	104
15°	1090	309
25°	1085	502
35°	1077	676
45°	1041	798
55°	862	768
65°	596	588
75°	297	316
85°	55	70
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1082.2
2.5°	1083.5
5°	1084.7
7.5°	1087.2
10°	1089.7
12.5°	1088.4
15°	1089.7
17.5°	1088.4
20°	1088.4
22.5°	1087.2
25°	1084.7
27.5°	1082.2
30°	1081.0
32.5°	1078.5
35°	1077.2
37.5°	1074.7
40°	1069.8
42.5°	1061.1
45°	1041.2
47.5°	1008.8
50°	966.5
52.5°	916.8
55°	862.0
57.5°	803.6
60°	737.6
62.5°	669.2
65°	595.8
67.5°	520.0
70°	442.8
72.5°	369.4
75°	297.3
77.5°	227.6
80°	163.0
82.5°	103.2
85°	54.7
87.5°	18.7
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	19.58	21.30	19.95	21.61	21.93	19.58	21.30	19.95	21.61	21.93
	3H	21.34	22.89	21.71	23.22	23.57	21.34	22.89	21.71	23.22	23.57
	4H	21.94	23.41	22.34	23.75	24.13	21.94	23.41	22.34	23.75	24.13
	6H	22.34	23.70	22.75	24.06	24.45	22.34	23.70	22.75	24.06	24.45
	8H	22.44	23.74	22.86	24.13	24.53	22.44	23.74	22.86	24.13	24.53
	12H	22.49	23.74	22.92	24.12	24.55	22.49	23.74	22.92	24.12	24.55
4H	2H	20.23	21.70	20.63	22.04	22.42	20.23	21.70	20.63	22.04	22.42
	3H	22.19	23.42	22.59	23.81	24.21	22.19	23.42	22.59	23.81	24.21
	4H	22.91	24.02	23.34	24.44	24.87	22.91	24.02	23.34	24.44	24.87
	6H	23.41	24.39	23.87	24.83	25.28	23.41	24.39	23.87	24.83	25.28
	8H	23.55	24.46	24.01	24.90	25.37	23.55	24.46	24.01	24.90	25.37
	12H	23.63	24.45	24.11	24.93	25.39	23.63	24.45	24.11	24.93	25.39
8H	4H	23.19	24.11	23.65	24.55	25.01	23.19	24.11	23.65	24.55	25.01
	6H	23.79	24.55	24.28	25.04	25.51	23.79	24.55	24.28	25.04	25.51
	8H	23.98	24.66	24.49	25.16	25.65	23.98	24.66	24.49	25.16	25.65
	12H	24.10	24.71	24.61	25.20	25.75	24.10	24.71	24.61	25.20	25.75
12H	4H	23.22	24.04	23.70	24.52	24.98	23.22	24.04	23.70	24.52	24.98
	6H	23.83	24.51	24.34	25.02	25.50	23.83	24.51	24.34	25.02	25.50
	8H	24.06	24.66	24.57	25.15	25.71	24.06	24.66	24.57	25.15	25.71