

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: P866680

Luminaire Tested: PRLX-2001-L-927-133L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866680
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-67)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-L-927-133L-G-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

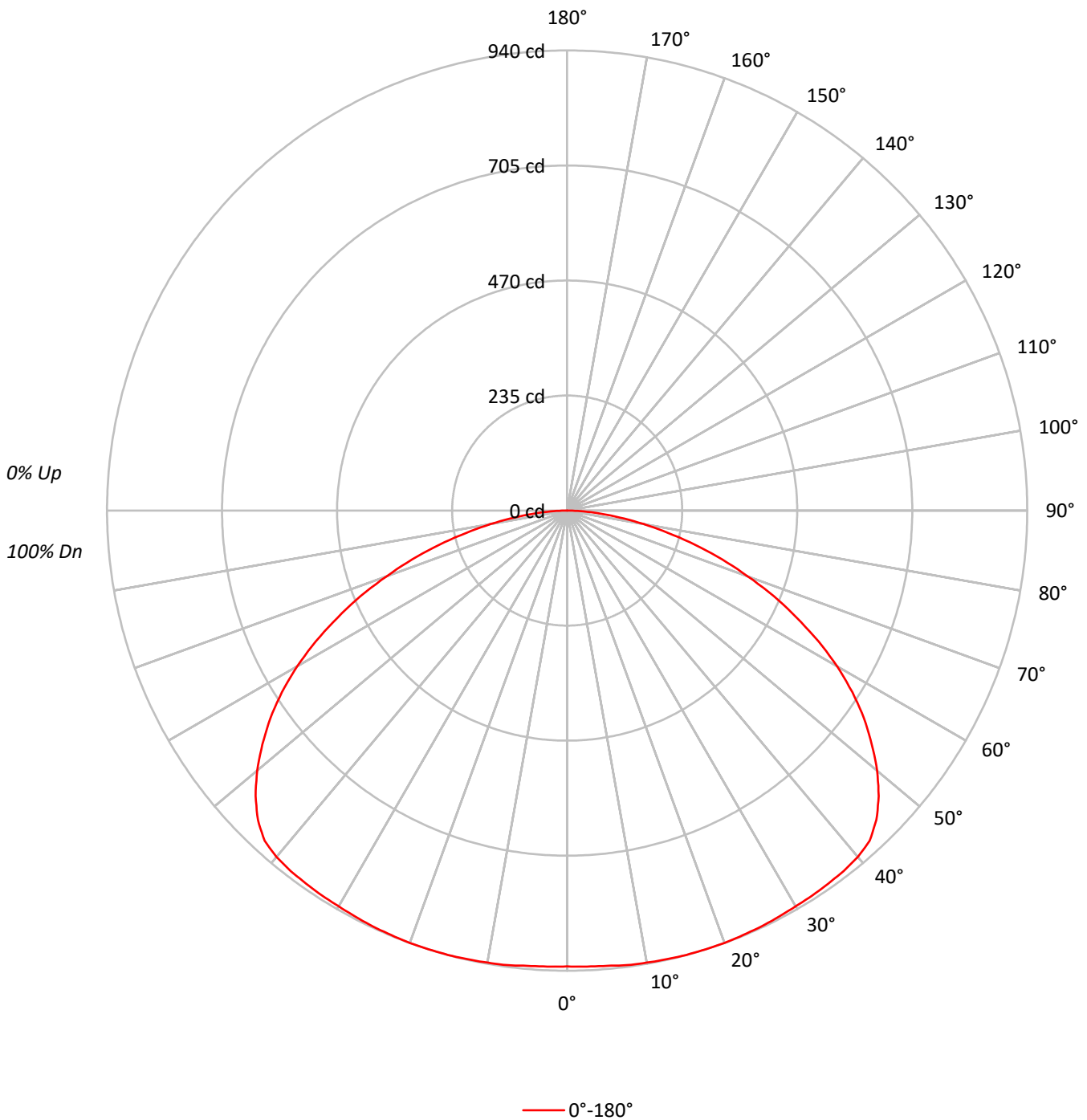
Lumens per Lamp: N/A
Luminaire Lumens: 3592.3 lumens
Efficiency: N/A
Efficacy: 32.1 lumens/watt
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.64
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
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	108	103	98	94	105	101	97	93	96	93	90		92	90	87		89	87	84	82
2	98	89	81	75	95	87	80	74	83	78	73		80	75	71		77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60		70	64	59		67	62	58	55
4	80	68	58	51	78	66	58	51	64	56	50		61	55	49		59	53	49	46
5	73	60	50	43	71	59	50	43	57	49	43		55	48	42		53	47	42	39
6	68	54	44	37	66	53	44	37	51	43	37		49	42	36		47	41	36	34
7	62	48	39	33	61	47	39	32	46	38	32		44	37	32		43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	28		40	33	28		39	33	28	26
9	54	40	31	26	52	39	31	25	38	31	25		37	30	25		36	30	25	23
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5091
5°	5122
10°	5205
15°	5319
20°	5467
25°	5656
30°	5892
35°	6207
40°	6592
45°	6908
50°	7031
55°	7057
60°	6965
65°	6692
70°	6271
75°	5714
80°	4987
85°	3920

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 7057 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	2.5
10°-20°	266.3	7.4
20°-30°	433.7	12.1
30°-40°	583.9	16.3
40°-50°	685.7	19.1
50°-60°	659.5	18.4
60°-70°	511.6	14.2
70°-80°	287.1	8.0
80°-90°	75.2	2.1
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°	789.2	22.0
0°-40°	1373.2	38.2
0°-60°	2718.4	75.7
0°-90°	3592.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3592.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	931	
5°	933	89
15°	940	266
25°	938	434
35°	930	584
45°	894	686
55°	740	660
65°	517	512
75°	270	287
85°	62	75
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	931.2
2.5°	932.3
5°	933.4
7.5°	936.6
10°	937.7
12.5°	938.7
15°	939.8
17.5°	939.8
20°	939.8
22.5°	938.7
25°	937.7
27.5°	935.5
30°	933.4
32.5°	932.3
35°	930.1
37.5°	928.0
40°	923.7
42.5°	915.0
45°	893.5
47.5°	863.3
50°	826.7
52.5°	784.6
55°	740.4
57.5°	690.9
60°	637.0
62.5°	578.8
65°	517.3
67.5°	457.0
70°	392.3
72.5°	332.0
75°	270.5
77.5°	211.2
80°	158.4
82.5°	107.8
85°	62.5
87.5°	26.9
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	19.37	21.09	19.73	21.40	21.72	19.37	21.09	19.73	21.40	21.72
	3H	21.19	22.76	21.57	23.08	23.44	21.19	22.76	21.57	23.08	23.44
	4H	21.85	23.32	22.25	23.67	24.04	21.85	23.32	22.25	23.67	24.04
	6H	22.31	23.68	22.72	24.04	24.43	22.31	23.68	22.72	24.04	24.43
	8H	22.45	23.76	22.88	24.15	24.55	22.45	23.76	22.88	24.15	24.55
	12H	22.54	23.80	22.97	24.18	24.61	22.54	23.80	22.97	24.18	24.61
4H	2H	20.03	21.50	20.43	21.85	22.22	20.03	21.50	20.43	21.85	22.22
	3H	22.06	23.31	22.47	23.70	24.10	22.06	23.31	22.47	23.70	24.10
	4H	22.85	23.97	23.28	24.38	24.81	22.85	23.97	23.28	24.38	24.81
	6H	23.43	24.41	23.88	24.85	25.31	23.43	24.41	23.88	24.85	25.31
	8H	23.62	24.54	24.07	24.98	25.44	23.62	24.54	24.07	24.98	25.44
	12H	23.74	24.58	24.22	25.05	25.52	23.74	24.58	24.22	25.05	25.52
8H	4H	23.16	24.08	23.61	24.52	24.98	23.16	24.08	23.61	24.52	24.98
	6H	23.85	24.62	24.35	25.11	25.58	23.85	24.62	24.35	25.11	25.58
	8H	24.11	24.80	24.61	25.30	25.79	24.11	24.80	24.61	25.30	25.79
	12H	24.30	24.91	24.80	25.40	25.96	24.30	24.91	24.80	25.40	25.96
12H	4H	23.19	24.02	23.67	24.50	24.97	23.19	24.02	23.67	24.50	24.97
	6H	23.91	24.60	24.41	25.10	25.59	23.91	24.60	24.41	25.10	25.59
	8H	24.21	24.83	24.72	25.32	25.87	24.21	24.83	24.72	25.32	25.87