

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: P867067

Luminaire Tested: PRLX-2002-L-935-133L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-68)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-935-133L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

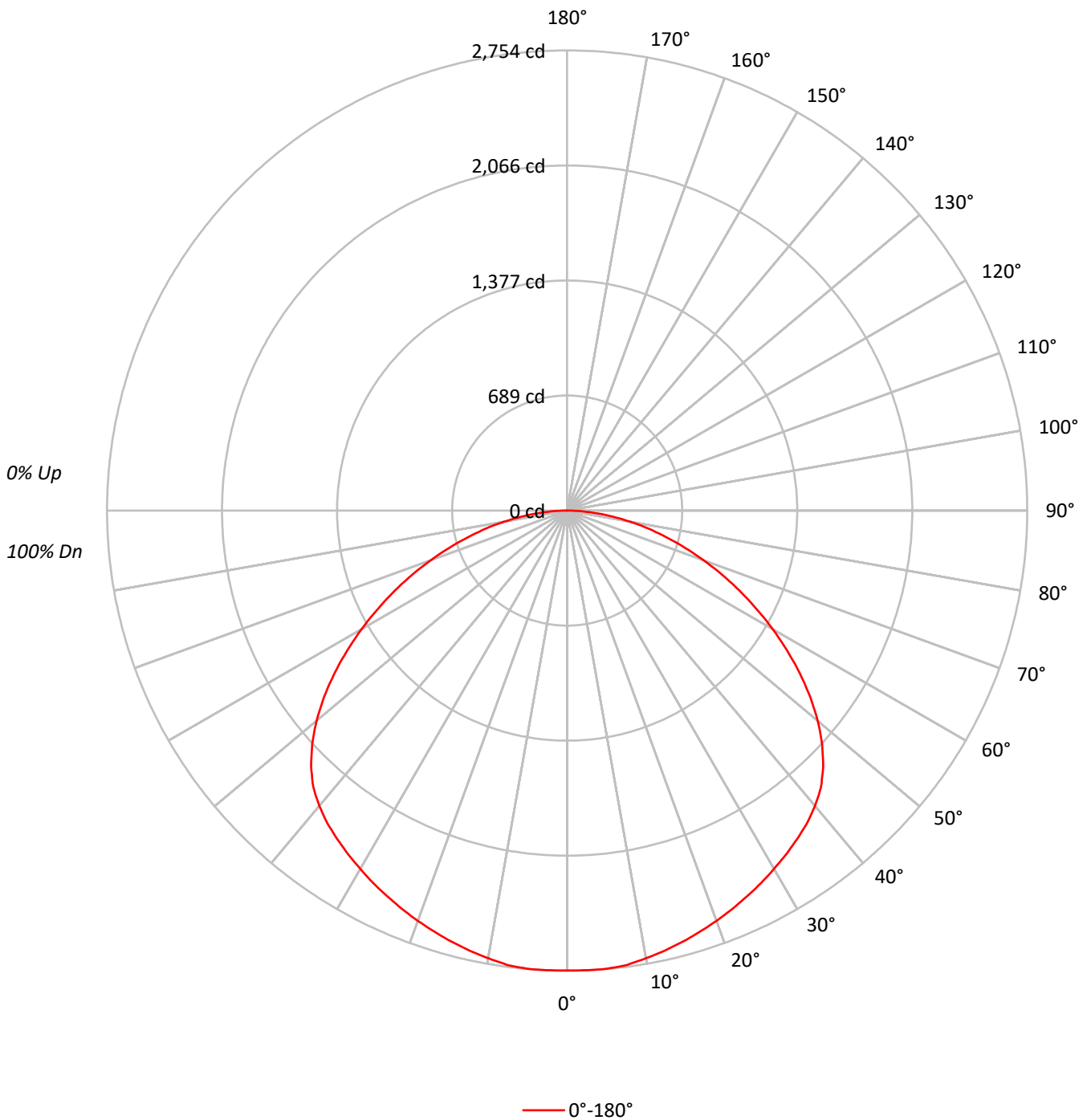
Lumens per Lamp: N/A
Luminaire Lumens: 8856.9 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.49
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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: 0.333 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	108	103	99	95	106	101	97	93	97	94	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45		56	49	44		54	48	44	42
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	27	54	41	33	27	40	32	27		39	32	27		38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	24		35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13580
5°	13632
10°	13628
15°	13645
20°	13719
25°	13868
30°	14106
35°	14454
40°	14865
45°	15123
50°	15036
55°	14636
60°	14027
65°	13312
70°	12513
75°	11674
80°	10834
85°	9646

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15123 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.7	3.0
10°-20°	755.2	8.5
20°-30°	1176.8	13.3
30°-40°	1503.9	17.0
40°-50°	1665.0	18.8
50°-60°	1517.5	17.1
60°-70°	1130.6	12.8
70°-80°	652.6	7.4
80°-90°	193.5	2.2
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°	2193.7	24.8
0°-40°	3697.6	41.7
0°-60°	6880.1	77.7
0°-90°	8856.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8856.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2752	
5°	2752	262
15°	2671	755
25°	2548	1177
35°	2400	1504
45°	2167	1665
55°	1702	1517
65°	1140	1131
75°	612	653
85°	170	194
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2752.4
2.5°	2753.6
5°	2752.4
7.5°	2742.9
10°	2720.2
12.5°	2697.6
15°	2671.4
17.5°	2642.8
20°	2613.0
22.5°	2580.8
25°	2547.5
27.5°	2512.9
30°	2476.0
32.5°	2439.0
35°	2399.7
37.5°	2358.0
40°	2308.0
42.5°	2248.4
45°	2167.4
47.5°	2069.7
50°	1958.9
52.5°	1833.8
55°	1701.5
57.5°	1560.9
60°	1421.5
62.5°	1280.9
65°	1140.3
67.5°	1004.5
70°	867.4
72.5°	739.9
75°	612.4
77.5°	498.1
80°	381.3
82.5°	271.7
85°	170.4
87.5°	78.6
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	21.59	23.27	21.96	23.58	23.90	21.59	23.27	21.96	23.58	23.90
	3H	23.34	24.86	23.72	25.19	25.55	23.34	24.86	23.72	25.19	25.55
	4H	24.01	25.44	24.40	25.79	26.16	24.01	25.44	24.40	25.79	26.16
	6H	24.52	25.85	24.93	26.22	26.61	24.52	25.85	24.93	26.22	26.61
	8H	24.70	25.97	25.12	26.36	26.76	24.70	25.97	25.12	26.36	26.76
	12H	24.82	26.04	25.25	26.42	26.85	24.82	26.04	25.25	26.42	26.85
4H	2H	22.21	23.64	22.61	23.99	24.36	22.21	23.64	22.61	23.99	24.36
	3H	24.19	25.39	24.59	25.79	26.19	24.19	25.39	24.59	25.79	26.19
	4H	24.98	26.07	25.41	26.49	26.92	24.98	26.07	25.41	26.49	26.92
	6H	25.64	26.59	26.09	27.03	27.49	25.64	26.59	26.09	27.03	27.49
	8H	25.87	26.76	26.32	27.20	27.67	25.87	26.76	26.32	27.20	27.67
	12H	26.04	26.84	26.52	27.32	27.79	26.04	26.84	26.52	27.32	27.79
8H	4H	25.31	26.20	25.77	26.64	27.11	25.31	26.20	25.77	26.64	27.11
	6H	26.09	26.84	26.58	27.32	27.80	26.09	26.84	26.58	27.32	27.80
	8H	26.40	27.07	26.90	27.57	28.05	26.40	27.07	26.90	27.57	28.05
	12H	26.65	27.24	27.15	27.73	28.29	26.65	27.24	27.15	27.73	28.29
12H	4H	25.35	26.15	25.83	26.63	27.10	25.35	26.15	25.83	26.63	27.10
	6H	26.15	26.83	26.66	27.33	27.82	26.15	26.83	26.66	27.33	27.82
	8H	26.52	27.12	27.03	27.61	28.16	26.52	27.12	27.03	27.61	28.16