

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: P866239

Luminaire Tested: PRLX-2002-M-930-35L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-M-930-35L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

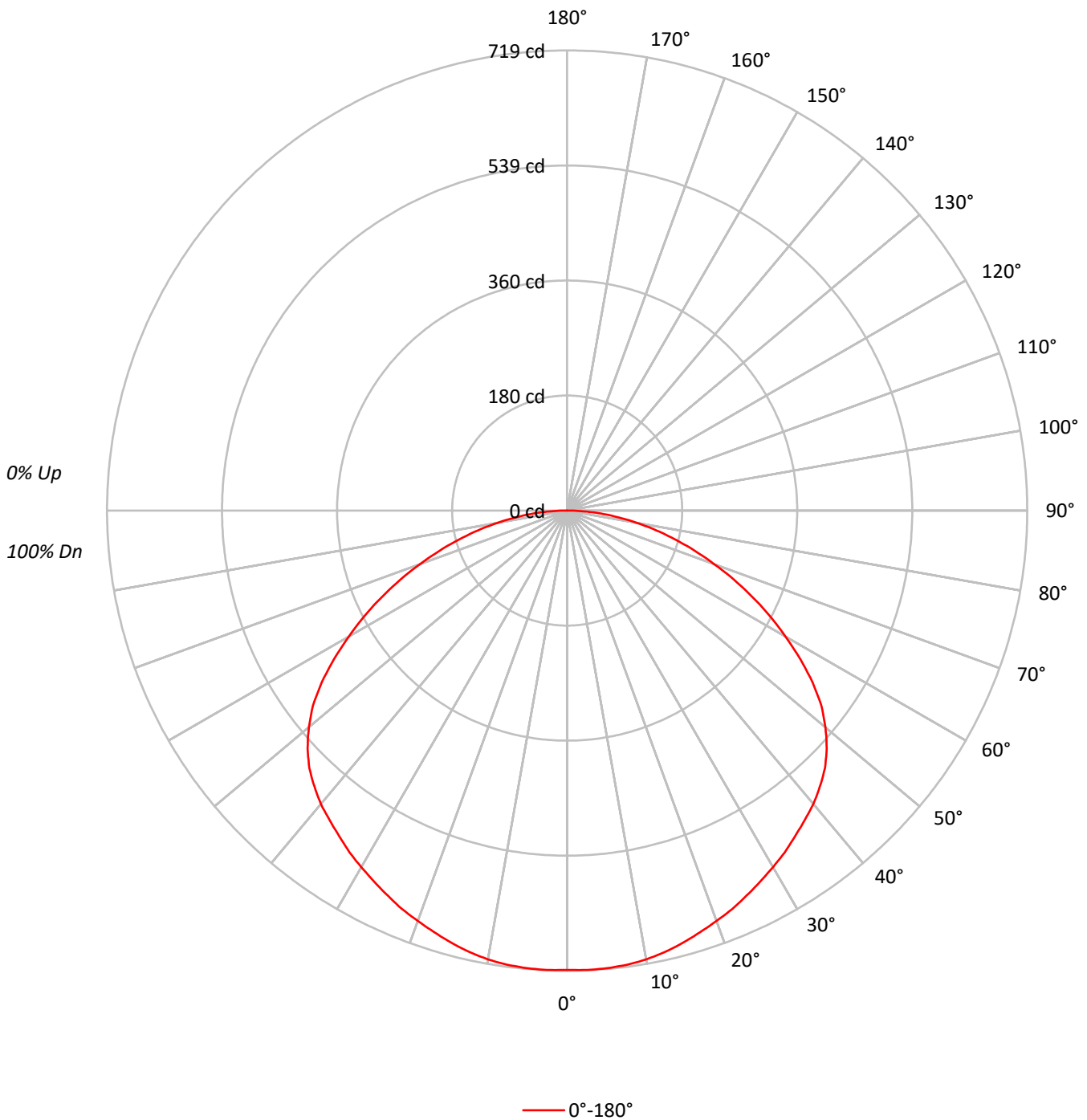
Lumens per Lamp: N/A
Luminaire Lumens: 2376.8 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.5
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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: 0.333 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	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	35	30	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5710
5°	5732
10°	5753
15°	5758
20°	5777
25°	5826
30°	5909
35°	6030
40°	6217
45°	6410
50°	6521
55°	6494
60°	6266
65°	6011
70°	5694
75°	5379
80°	5076
85°	4756

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 6545 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	2.9
10°-20°	197.5	8.3
20°-30°	306.6	12.9
30°-40°	389.6	16.4
40°-50°	438.2	18.4
50°-60°	416.3	17.5
60°-70°	316.2	13.3
70°-80°	185.8	7.8
80°-90°	58.1	2.4
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°	572.4	24.1
0°-40°	962.1	40.5
0°-60°	1816.6	76.4
0°-90°	2376.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2376.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	718	
5°	718	68
15°	699	198
25°	664	307
35°	621	390
45°	570	438
55°	468	416
65°	319	316
75°	175	186
85°	52	58
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	717.7
2.5°	718.6
5°	717.7
7.5°	715.8
10°	712.1
12.5°	706.5
15°	699.1
17.5°	690.7
20°	682.3
22.5°	674.0
25°	663.7
27.5°	653.5
30°	643.2
32.5°	633.0
35°	620.9
37.5°	609.7
40°	598.6
42.5°	584.6
45°	569.7
47.5°	550.2
50°	526.9
52.5°	500.8
55°	468.2
57.5°	431.9
60°	393.8
62.5°	357.5
65°	319.3
67.5°	282.1
70°	244.8
72.5°	209.4
75°	175.0
77.5°	142.4
80°	110.8
82.5°	80.1
85°	52.1
87.5°	26.1
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	18.87	20.57	19.24	20.88	21.19	18.87	20.57	19.24	20.88	21.19
	3H	20.67	22.21	21.05	22.53	22.89	20.67	22.21	21.05	22.53	22.89
	4H	21.36	22.81	21.76	23.16	23.54	21.36	22.81	21.76	23.16	23.54
	6H	21.91	23.26	22.32	23.62	24.01	21.91	23.26	22.32	23.62	24.01
	8H	22.10	23.39	22.53	23.78	24.18	22.10	23.39	22.53	23.78	24.18
	12H	22.25	23.49	22.68	23.87	24.29	22.25	23.49	22.68	23.87	24.29
4H	2H	19.51	20.96	19.90	21.31	21.68	19.51	20.96	19.90	21.31	21.68
	3H	21.53	22.75	21.94	23.15	23.55	21.53	22.75	21.94	23.15	23.55
	4H	22.36	23.47	22.79	23.88	24.32	22.36	23.47	22.79	23.88	24.32
	6H	23.05	24.02	23.50	24.46	24.92	23.05	24.02	23.50	24.46	24.92
	8H	23.30	24.21	23.76	24.65	25.12	23.30	24.21	23.76	24.65	25.12
	12H	23.50	24.32	23.98	24.79	25.26	23.50	24.32	23.98	24.79	25.26
8H	4H	22.70	23.61	23.16	24.05	24.52	22.70	23.61	23.16	24.05	24.52
	6H	23.53	24.29	24.02	24.77	25.25	23.53	24.29	24.02	24.77	25.25
	8H	23.86	24.54	24.37	25.05	25.53	23.86	24.54	24.37	25.05	25.53
	12H	24.15	24.75	24.65	25.24	25.80	24.15	24.75	24.65	25.24	25.80
12H	4H	22.75	23.57	23.23	24.04	24.51	22.75	23.57	23.23	24.04	24.51
	6H	23.60	24.28	24.10	24.79	25.27	23.60	24.28	24.10	24.79	25.27
	8H	24.00	24.60	24.50	25.09	25.65	24.00	24.60	24.50	25.09	25.65