

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: P866367

Luminaire Tested: PRLX-2002-M-940-35L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866367
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: Prenalux
Catalog Number: PRLX-2002-M-940-35L-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

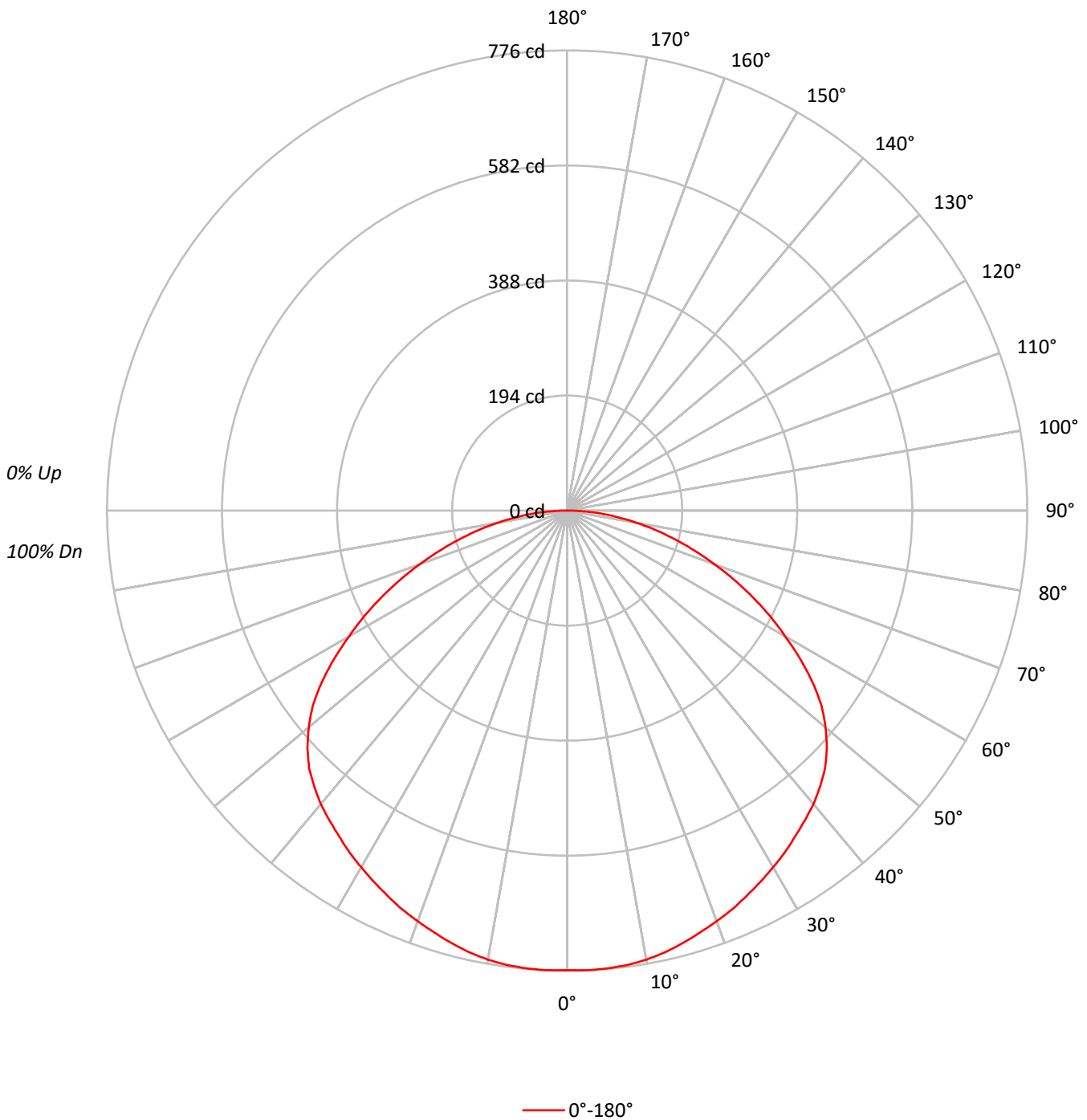
Lumens per Lamp: N/A
Luminaire Lumens: 2566.6 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.5
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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°	6166
5°	6189
10°	6212
15°	6218
20°	6238
25°	6291
30°	6381
35°	6512
40°	6712
45°	6922
50°	7041
55°	7013
60°	6766
65°	6491
70°	6150
75°	5810
80°	5480
85°	5139

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 7068 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	2.9
10°-20°	213.3	8.3
20°-30°	331.0	12.9
30°-40°	420.7	16.4
40°-50°	473.2	18.4
50°-60°	449.5	17.5
60°-70°	341.5	13.3
70°-80°	200.7	7.8
80°-90°	62.7	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°	618.1	24.1
0°-40°	1038.9	40.5
0°-60°	1961.6	76.4
0°-90°	2566.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2566.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	775	
5°	775	74
15°	755	213
25°	717	331
35°	670	421
45°	615	473
55°	506	450
65°	345	341
75°	189	201
85°	56	63
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	775.0
2.5°	776.0
5°	775.0
7.5°	773.0
10°	769.0
12.5°	763.0
15°	754.9
17.5°	745.9
20°	736.8
22.5°	727.8
25°	716.7
27.5°	705.7
30°	694.6
32.5°	683.5
35°	670.5
37.5°	658.4
40°	646.3
42.5°	631.3
45°	615.2
47.5°	594.1
50°	568.9
52.5°	540.8
55°	505.6
57.5°	466.4
60°	425.2
62.5°	386.0
65°	344.8
67.5°	304.6
70°	264.4
72.5°	226.2
75°	189.0
77.5°	153.8
80°	119.6
82.5°	86.4
85°	56.3
87.5°	28.1
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	19.14	20.83	19.50	21.15	21.46	19.14	20.83	19.50	21.15	21.46
	3H	20.94	22.47	21.31	22.80	23.16	20.94	22.47	21.31	22.80	23.16
	4H	21.63	23.08	22.03	23.43	23.80	21.63	23.08	22.03	23.43	23.80
	6H	22.18	23.53	22.59	23.89	24.28	22.18	23.53	22.59	23.89	24.28
	8H	22.37	23.66	22.80	24.05	24.45	22.37	23.66	22.80	24.05	24.45
	12H	22.52	23.75	22.94	24.13	24.56	22.52	23.75	22.94	24.13	24.56
4H	2H	19.77	21.23	20.17	21.57	21.95	19.77	21.23	20.17	21.57	21.95
	3H	21.80	23.02	22.21	23.42	23.82	21.80	23.02	22.21	23.42	23.82
	4H	22.63	23.74	23.06	24.15	24.58	22.63	23.74	23.06	24.15	24.58
	6H	23.32	24.29	23.77	24.73	25.18	23.32	24.29	23.77	24.73	25.18
	8H	23.57	24.48	24.03	24.92	25.38	23.57	24.48	24.03	24.92	25.38
	12H	23.77	24.59	24.24	25.06	25.53	23.77	24.59	24.24	25.06	25.53
8H	4H	22.97	23.88	23.43	24.32	24.78	22.97	23.88	23.43	24.32	24.78
	6H	23.79	24.55	24.28	25.04	25.51	23.79	24.55	24.28	25.04	25.51
	8H	24.13	24.81	24.63	25.31	25.80	24.13	24.81	24.63	25.31	25.80
	12H	24.41	25.02	24.92	25.51	26.07	24.41	25.02	24.92	25.51	26.07
12H	4H	23.01	23.84	23.49	24.31	24.78	23.01	23.84	23.49	24.31	24.78
	6H	23.87	24.55	24.37	25.06	25.54	23.87	24.55	24.37	25.06	25.54
	8H	24.26	24.87	24.77	25.36	25.92	24.26	24.87	24.77	25.36	25.92