

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: P867082

Luminaire Tested: PRLX-2002-L-935-32L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-70)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-935-32L-G-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

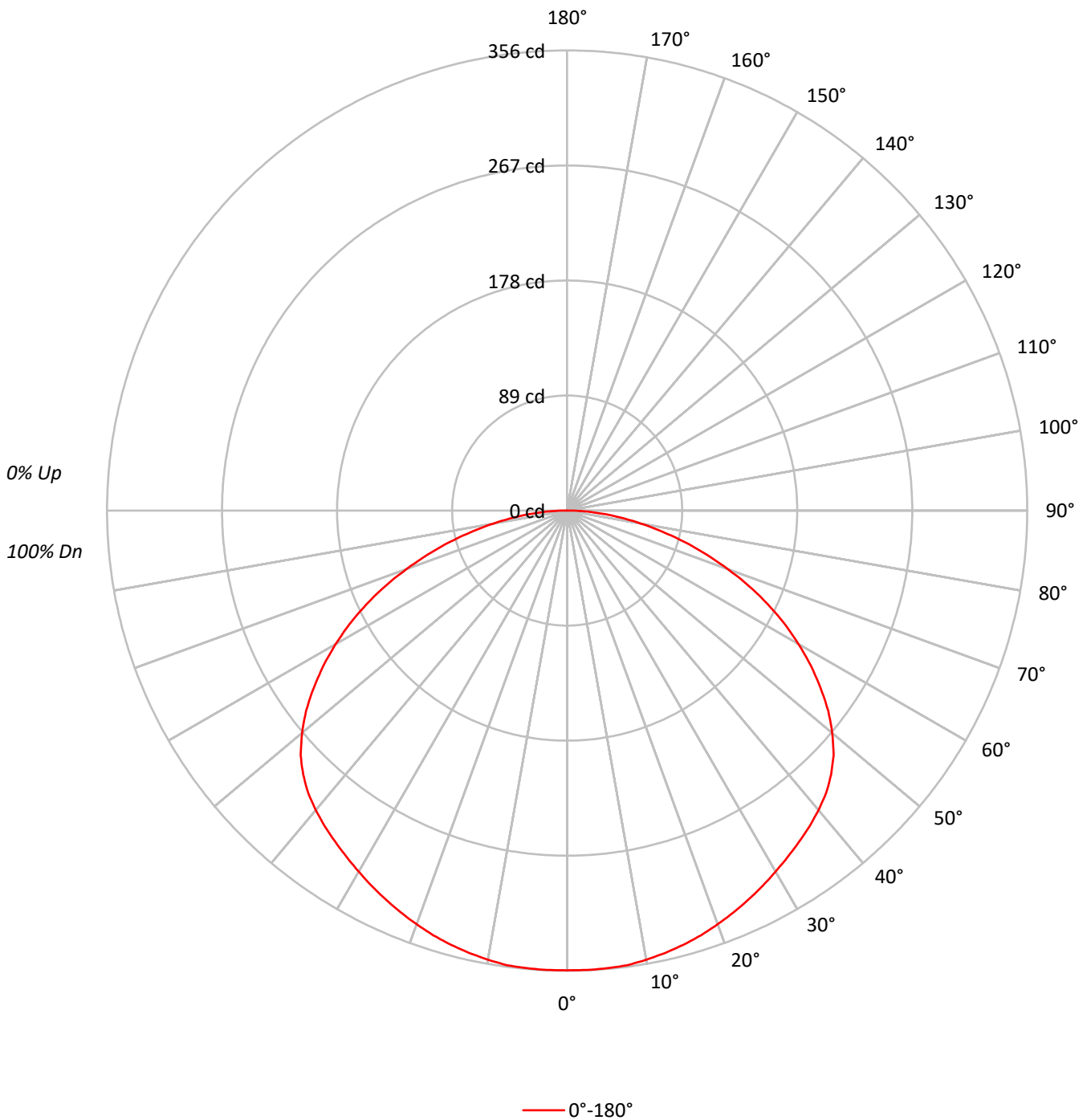
Lumens per Lamp: N/A
Luminaire Lumens: 1216.3 lumens
Efficiency: N/A
Efficacy: 46.6 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 26.1
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	96	93	96	93	90		92	89	87		89	86	84	82
2	98	89	82	75	95	87	80	75	83	78	73		80	75	71		77	73	69	67
3	88	77	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51		62	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		50	42	37		48	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33		45	38	33		44	37	32	30
8	58	44	36	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	23		34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1755
5°	1760
10°	1768
15°	1776
20°	1788
25°	1807
30°	1837
35°	1884
40°	1948
45°	2015
50°	2055
55°	2059
60°	2041
65°	1997
70°	1904
75°	1792
80°	1648
85°	1523

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 2063 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.9	2.8
10°-20°	98.3	8.1
20°-30°	153.4	12.6
30°-40°	196.2	16.1
40°-50°	222.3	18.3
50°-60°	213.7	17.6
60°-70°	168.8	13.9
70°-80°	99.6	8.2
80°-90°	30.3	2.5
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°	285.5	23.5
0°-40°	481.7	39.6
0°-60°	917.7	75.4
0°-90°	1216.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1216.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	356	
5°	355	34
15°	348	98
25°	332	153
35°	313	196
45°	289	222
55°	239	214
65°	171	169
75°	94	100
85°	27	30
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	355.7
2.5°	355.7
5°	355.4
7.5°	354.8
10°	352.8
12.5°	350.5
15°	347.7
17.5°	344.5
20°	340.5
22.5°	336.5
25°	332.0
27.5°	327.4
30°	322.5
32.5°	317.7
35°	312.8
37.5°	308.0
40°	302.5
42.5°	296.5
45°	288.8
47.5°	279.7
50°	267.7
52.5°	254.6
55°	239.4
57.5°	223.7
60°	206.8
62.5°	189.7
65°	171.1
67.5°	152.0
70°	132.0
72.5°	113.1
75°	94.0
77.5°	75.4
80°	58.0
82.5°	41.7
85°	26.9
87.5°	13.7
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	14.96	16.66	15.32	16.98	17.29	14.96	16.66	15.32	16.98	17.29
	3H	16.87	18.42	17.25	18.75	19.11	16.87	18.42	17.25	18.75	19.11
	4H	17.60	19.06	17.99	19.41	19.78	17.60	19.06	17.99	19.41	19.78
	6H	18.14	19.50	18.55	19.86	20.25	18.14	19.50	18.55	19.86	20.25
	8H	18.33	19.63	18.75	20.02	20.42	18.33	19.63	18.75	20.02	20.42
	12H	18.47	19.71	18.90	20.10	20.52	18.47	19.71	18.90	20.10	20.52
4H	2H	15.64	17.11	16.04	17.45	17.83	15.64	17.11	16.04	17.45	17.83
	3H	17.77	19.01	18.18	19.40	19.80	17.77	19.01	18.18	19.40	19.80
	4H	18.63	19.75	19.06	20.16	20.59	18.63	19.75	19.06	20.16	20.59
	6H	19.31	20.29	19.76	20.73	21.18	19.31	20.29	19.76	20.73	21.18
	8H	19.55	20.47	20.00	20.91	21.37	19.55	20.47	20.00	20.91	21.37
	12H	19.74	20.57	20.21	21.04	21.51	19.74	20.57	20.21	21.04	21.51
8H	4H	18.97	19.89	19.43	20.33	20.80	18.97	19.89	19.43	20.33	20.80
	6H	19.78	20.55	20.27	21.04	21.51	19.78	20.55	20.27	21.04	21.51
	8H	20.10	20.79	20.61	21.30	21.78	20.10	20.79	20.61	21.30	21.78
	12H	20.38	20.99	20.88	21.48	22.04	20.38	20.99	20.88	21.48	22.04
12H	4H	19.02	19.85	19.49	20.32	20.79	19.02	19.85	19.49	20.32	20.79
	6H	19.85	20.54	20.36	21.05	21.53	19.85	20.54	20.36	21.05	21.53
	8H	20.24	20.85	20.74	21.34	21.90	20.24	20.85	20.74	21.34	21.90