

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: P866647

Luminaire Tested: PRLX-2004-M-940-65L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-M-940-65L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

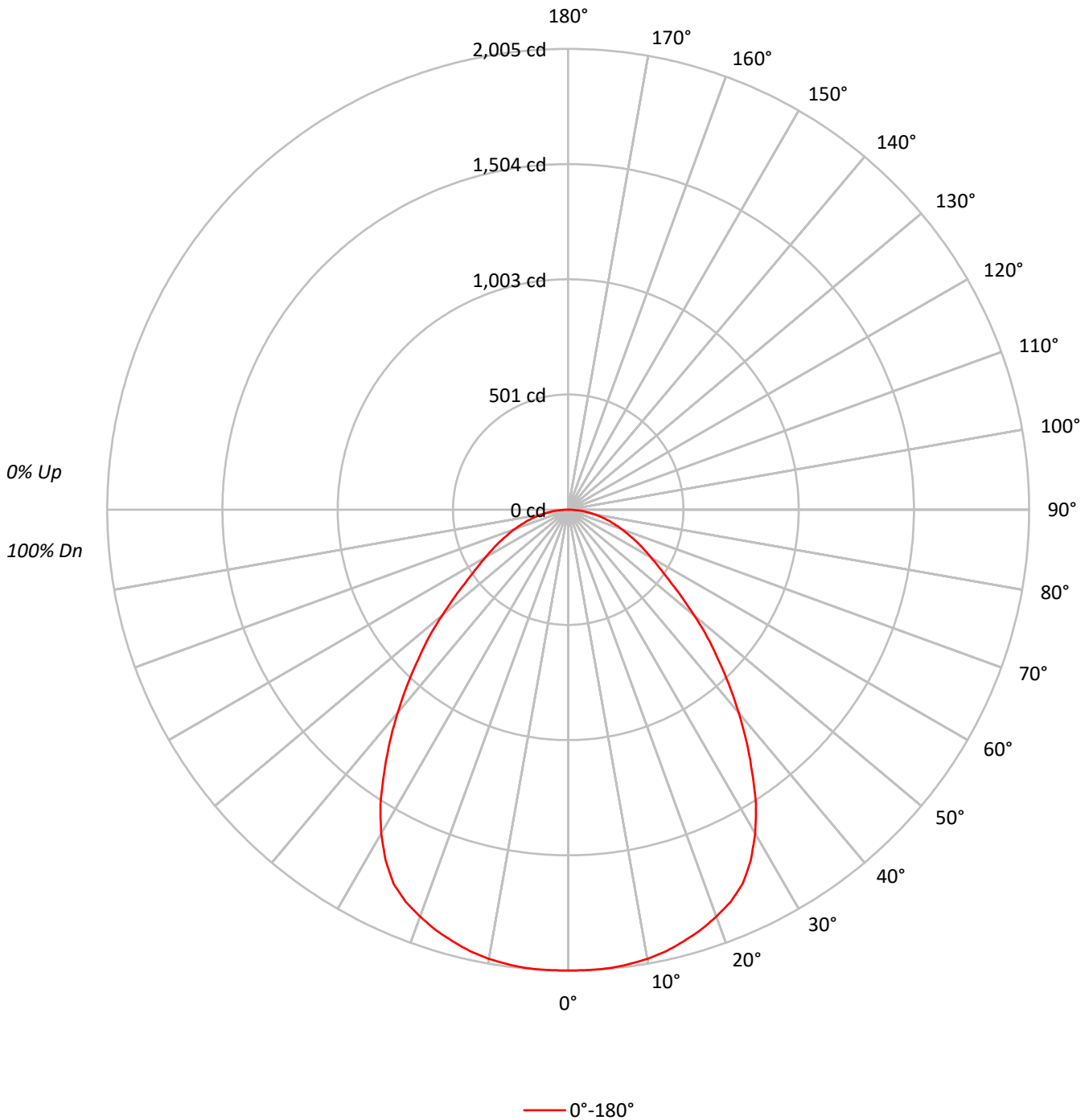
Lumens per Lamp: N/A
Luminaire Lumens: 4210.7 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.2
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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: 0.5 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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57
5	80	69	60	54	78	67	60	54	65	59	53	64	58	53	62	57	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	15951
5°	15997
10°	16031
15°	16007
20°	15947
25°	15765
30°	14937
35°	13544
40°	11982
45°	10397
50°	8850
55°	7432
60°	6624
65°	6150
70°	5776
75°	5508
80°	5301
85°	5112

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10397 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.6	4.5
10°-20°	548.6	13.0
20°-30°	820.0	19.5
30°-40°	870.3	20.7
40°-50°	714.9	17.0
50°-60°	489.0	11.6
60°-70°	325.1	7.7
70°-80°	190.3	4.5
80°-90°	62.0	1.5
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°	1559.2	37.0
0°-40°	2429.5	57.7
0°-60°	3633.4	86.3
0°-90°	4210.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4210.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2005	
5°	2003	191
15°	1943	549
25°	1796	820
35°	1394	870
45°	924	715
55°	536	489
65°	327	325
75°	179	190
85°	56	62
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2005.0
2.5°	2005.0
5°	2003.1
7.5°	1995.6
10°	1984.4
12.5°	1967.6
15°	1943.4
17.5°	1917.2
20°	1883.6
22.5°	1846.3
25°	1795.9
27.5°	1719.3
30°	1626.0
32.5°	1519.6
35°	1394.5
37.5°	1275.0
40°	1153.7
42.5°	1036.1
45°	924.1
47.5°	821.4
50°	715.0
52.5°	619.8
55°	535.8
57.5°	470.4
60°	416.3
62.5°	369.6
65°	326.7
67.5°	285.6
70°	248.3
72.5°	212.8
75°	179.2
77.5°	147.5
80°	115.7
82.5°	85.9
85°	56.0
87.5°	28.0
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	17.75	19.22	18.11	19.54	19.85	17.75	19.22	18.11	19.54	19.85
	3H	19.33	20.65	19.71	20.98	21.34	19.33	20.65	19.71	20.98	21.34
	4H	19.97	21.21	20.37	21.56	21.94	19.97	21.21	20.37	21.56	21.94
	6H	20.49	21.64	20.91	22.00	22.40	20.49	21.64	20.91	22.00	22.40
	8H	20.69	21.77	21.11	22.16	22.57	20.69	21.77	21.11	22.16	22.57
	12H	20.83	21.87	21.26	22.25	22.68	20.83	21.87	21.26	22.25	22.68
4H	2H	18.28	19.51	18.68	19.86	20.24	18.28	19.51	18.68	19.86	20.24
	3H	20.10	21.13	20.51	21.53	21.93	20.10	21.13	20.51	21.53	21.93
	4H	20.88	21.80	21.31	22.22	22.66	20.88	21.80	21.31	22.22	22.66
	6H	21.54	22.35	22.00	22.79	23.25	21.54	22.35	22.00	22.79	23.25
	8H	21.79	22.54	22.25	22.99	23.46	21.79	22.54	22.25	22.99	23.46
	12H	21.98	22.66	22.47	23.14	23.61	21.98	22.66	22.47	23.14	23.61
8H	4H	21.17	21.92	21.63	22.37	22.84	21.17	21.92	21.63	22.37	22.84
	6H	21.98	22.60	22.47	23.09	23.57	21.98	22.60	22.47	23.09	23.57
	8H	22.31	22.87	22.83	23.38	23.87	22.31	22.87	22.83	23.38	23.87
	12H	22.60	23.10	23.11	23.59	24.15	22.60	23.10	23.11	23.59	24.15
12H	4H	21.20	21.87	21.68	22.35	22.82	21.20	21.87	21.68	22.35	22.82
	6H	22.04	22.60	22.55	23.11	23.60	22.04	22.60	22.55	23.11	23.60
	8H	22.44	22.94	22.95	23.43	23.99	22.44	22.94	22.95	23.43	23.99