

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: P867049

Luminaire Tested: PRLX-2002-L-935-100L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-69)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-935-100L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

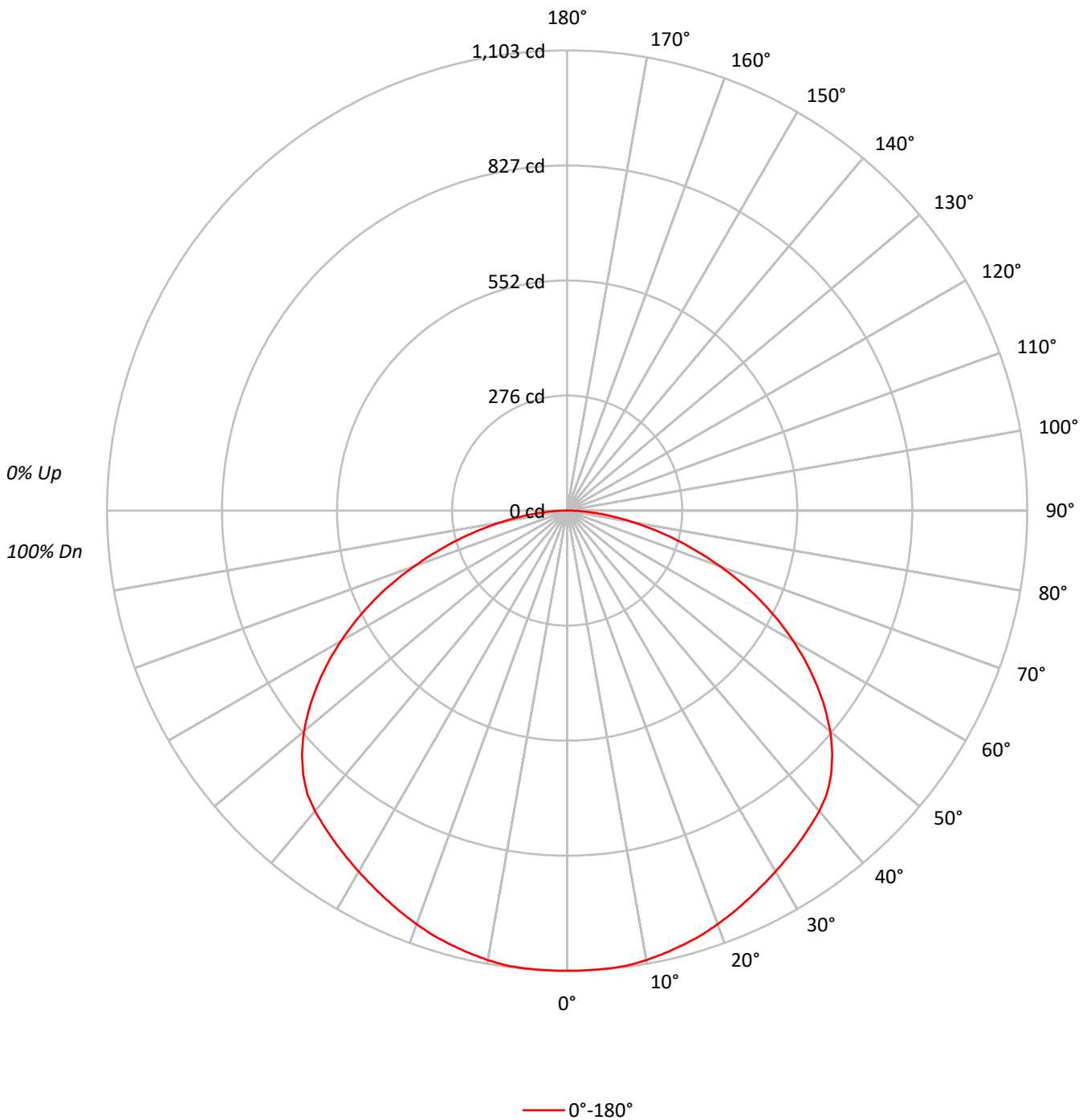
Lumens per Lamp: N/A
Luminaire Lumens: 3705.0 lumens
Efficiency: N/A
Efficacy: 46.7 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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

TEST NUMBER: P867049

CATALOG NUMBER: PRLX-2002-L-935-100L-G-X-X-BRSS-X

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	105	101	97	93	97	93	90		93	90	87		89	87	85	83
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	65	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	51	45	72	60	51	44	58	50	44		55	49	43		54	48	43	41
6	68	54	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	34	29		40	34	29	27
9	55	41	32	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	28	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5442
5°	5459
10°	5482
15°	5503
20°	5539
25°	5594
30°	5691
35°	5845
40°	6056
45°	6244
50°	6322
55°	6290
60°	6180
65°	5982
70°	5620
75°	5155
80°	4600
85°	3776

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 6322 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	2.8
10°-20°	304.6	8.2
20°-30°	474.8	12.8
30°-40°	608.7	16.4
40°-50°	688.1	18.6
50°-60°	652.3	17.6
60°-70°	505.3	13.6
70°-80°	287.3	7.8
80°-90°	78.9	2.1
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°	884.3	23.9
0°-40°	1493.0	40.3
0°-60°	2833.5	76.5
0°-90°	3705.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3705.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1103	
5°	1102	105
15°	1077	305
25°	1028	475
35°	970	609
45°	895	688
55°	731	652
65°	512	505
75°	270	287
85°	67	79
90°	0	

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CATALOG NUMBER: PRLX-2002-L-935-100L-G-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	1103.1
2.5°	1103.1
5°	1102.2
7.5°	1100.4
10°	1094.2
12.5°	1086.2
15°	1077.3
17.5°	1067.5
20°	1055.0
22.5°	1041.7
25°	1027.5
27.5°	1013.2
30°	999.0
32.5°	984.8
35°	970.5
37.5°	955.4
40°	940.3
42.5°	921.6
45°	894.9
47.5°	862.0
50°	823.7
52.5°	779.3
55°	731.2
57.5°	680.5
60°	626.3
62.5°	570.2
65°	512.4
67.5°	451.9
70°	389.6
72.5°	329.1
75°	270.4
77.5°	214.4
80°	161.9
82.5°	112.1
85°	66.7
87.5°	30.2
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	18.83	20.53	19.20	20.84	21.16	18.83	20.53	19.20	20.84	21.16
	3H	20.67	22.21	21.05	22.53	22.89	20.67	22.21	21.05	22.53	22.89
	4H	21.34	22.79	21.73	23.14	23.51	21.34	22.79	21.73	23.14	23.51
	6H	21.83	23.17	22.24	23.54	23.93	21.83	23.17	22.24	23.54	23.93
	8H	21.98	23.27	22.40	23.66	24.05	21.98	23.27	22.40	23.66	24.05
	12H	22.08	23.32	22.51	23.70	24.13	22.08	23.32	22.51	23.70	24.13
4H	2H	19.49	20.95	19.89	21.29	21.67	19.49	20.95	19.89	21.29	21.67
	3H	21.54	22.76	21.95	23.16	23.56	21.54	22.76	21.95	23.16	23.56
	4H	22.34	23.44	22.77	23.85	24.29	22.34	23.44	22.77	23.85	24.29
	6H	22.95	23.92	23.40	24.36	24.81	22.95	23.92	23.40	24.36	24.81
	8H	23.15	24.06	23.61	24.50	24.96	23.15	24.06	23.61	24.50	24.96
	12H	23.30	24.11	23.77	24.59	25.06	23.30	24.11	23.77	24.59	25.06
8H	4H	22.65	23.56	23.11	24.00	24.47	22.65	23.56	23.11	24.00	24.47
	6H	23.39	24.14	23.88	24.63	25.10	23.39	24.14	23.88	24.63	25.10
	8H	23.66	24.34	24.17	24.84	25.33	23.66	24.34	24.17	24.84	25.33
	12H	23.87	24.47	24.38	24.96	25.52	23.87	24.47	24.38	24.96	25.52
12H	4H	22.69	23.51	23.17	23.98	24.45	22.69	23.51	23.17	23.98	24.45
	6H	23.45	24.13	23.95	24.63	25.11	23.45	24.13	23.95	24.63	25.11
	8H	23.77	24.38	24.28	24.87	25.42	23.77	24.38	24.28	24.87	25.42