

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: P867033

Luminaire Tested: PRLX-2002-L-930-67L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867033
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: Prenalux
Catalog Number: PRLX-2002-L-930-67L-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 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

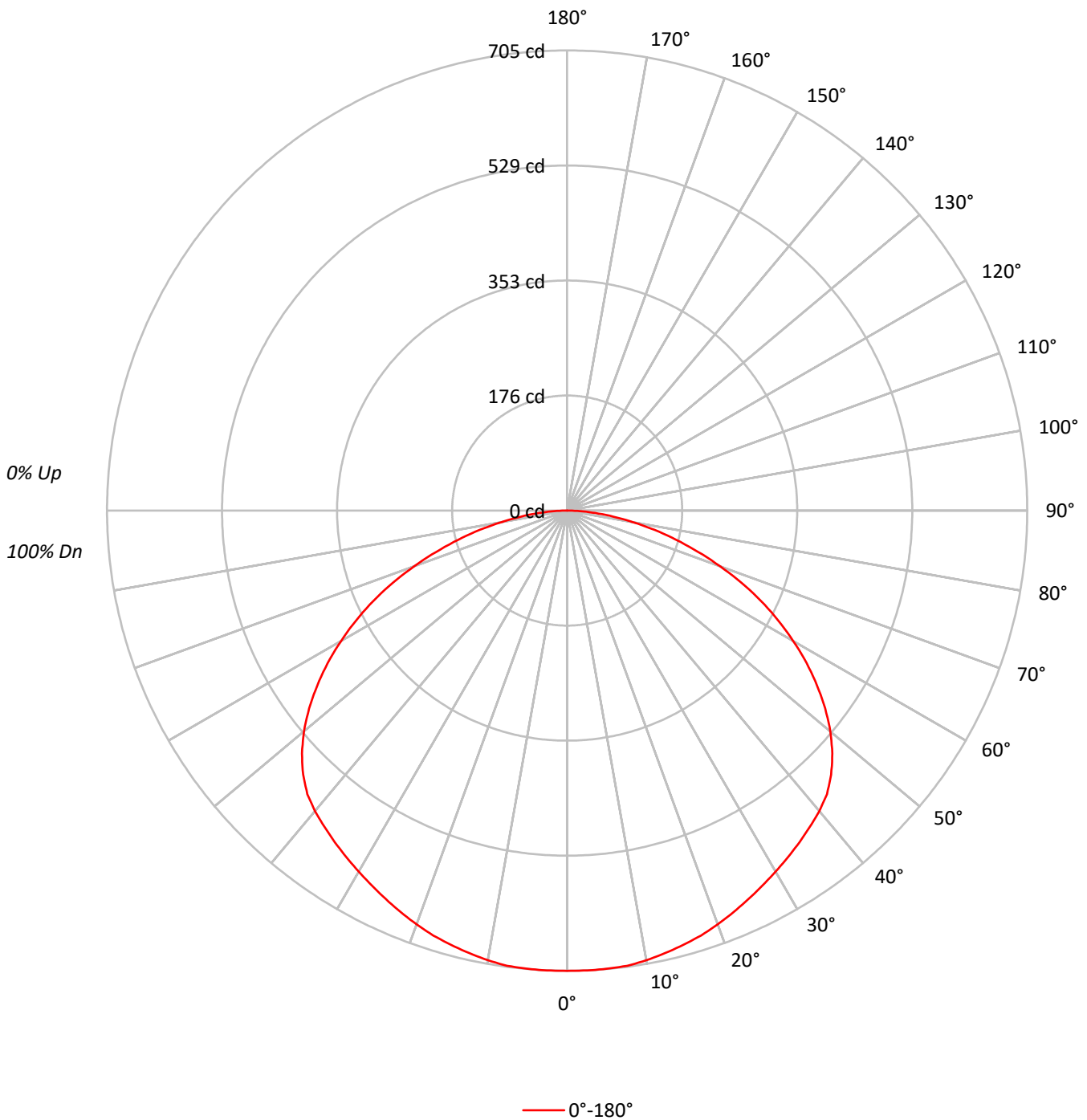
Lumens per Lamp: N/A
Luminaire Lumens: 2368.7 lumens
Efficiency: N/A
Efficacy: 47.0 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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

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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	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°	3479
5°	3490
10°	3504
15°	3518
20°	3541
25°	3576
30°	3639
35°	3737
40°	3871
45°	3992
50°	4042
55°	4021
60°	3951
65°	3825
70°	3593
75°	3296
80°	2941
85°	2417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 4042 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	2.8
10°-20°	194.7	8.2
20°-30°	303.5	12.8
30°-40°	389.1	16.4
40°-50°	439.9	18.6
50°-60°	417.1	17.6
60°-70°	323.1	13.6
70°-80°	183.7	7.8
80°-90°	50.4	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°	565.4	23.9
0°-40°	954.5	40.3
0°-60°	1811.5	76.5
0°-90°	2368.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2368.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	705	
5°	705	67
15°	689	195
25°	657	304
35°	620	389
45°	572	440
55°	468	417
65°	328	323
75°	173	184
85°	43	50
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	705.2
2.5°	705.2
5°	704.7
7.5°	703.5
10°	699.5
12.5°	694.4
15°	688.7
17.5°	682.5
20°	674.5
22.5°	666.0
25°	656.9
27.5°	647.8
30°	638.7
32.5°	629.6
35°	620.5
37.5°	610.8
40°	601.1
42.5°	589.2
45°	572.1
47.5°	551.1
50°	526.6
52.5°	498.2
55°	467.5
57.5°	435.1
60°	400.4
62.5°	364.6
65°	327.6
67.5°	288.9
70°	249.1
72.5°	210.4
75°	172.9
77.5°	137.1
80°	103.5
82.5°	71.7
85°	42.7
87.5°	19.3
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	17.28	18.97	17.64	19.29	19.60	17.28	18.97	17.64	19.29	19.60
	3H	19.12	20.65	19.49	20.98	21.34	19.12	20.65	19.49	20.98	21.34
	4H	19.78	21.24	20.18	21.58	21.96	19.78	21.24	20.18	21.58	21.96
	6H	20.27	21.62	20.68	21.98	22.37	20.27	21.62	20.68	21.98	22.37
	8H	20.43	21.72	20.85	22.10	22.50	20.43	21.72	20.85	22.10	22.50
	12H	20.53	21.76	20.96	22.14	22.57	20.53	21.76	20.96	22.14	22.57
4H	2H	17.94	19.39	18.34	19.74	20.11	17.94	19.39	18.34	19.74	20.11
	3H	19.99	21.21	20.40	21.61	22.00	19.99	21.21	20.40	21.61	22.00
	4H	20.78	21.89	21.21	22.30	22.73	20.78	21.89	21.21	22.30	22.73
	6H	21.40	22.37	21.85	22.81	23.26	21.40	22.37	21.85	22.81	23.26
	8H	21.60	22.51	22.06	22.95	23.41	21.60	22.51	22.06	22.95	23.41
	12H	21.74	22.56	22.22	23.03	23.50	21.74	22.56	22.22	23.03	23.50
8H	4H	21.10	22.01	21.56	22.45	22.91	21.10	22.01	21.56	22.45	22.91
	6H	21.83	22.59	22.32	23.08	23.55	21.83	22.59	22.32	23.08	23.55
	8H	22.11	22.79	22.61	23.29	23.77	22.11	22.79	22.61	23.29	23.77
	12H	22.32	22.92	22.82	23.41	23.97	22.32	22.92	22.82	23.41	23.97
12H	4H	21.14	21.96	21.62	22.43	22.90	21.14	21.96	21.62	22.43	22.90
	6H	21.89	22.57	22.40	23.08	23.56	21.89	22.57	22.40	23.08	23.56
	8H	22.22	22.82	22.73	23.31	23.87	22.22	22.82	22.73	23.31	23.87