

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: P866720

Luminaire Tested: PRLX-2001-L-927-83L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-67)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-927-83L-G-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

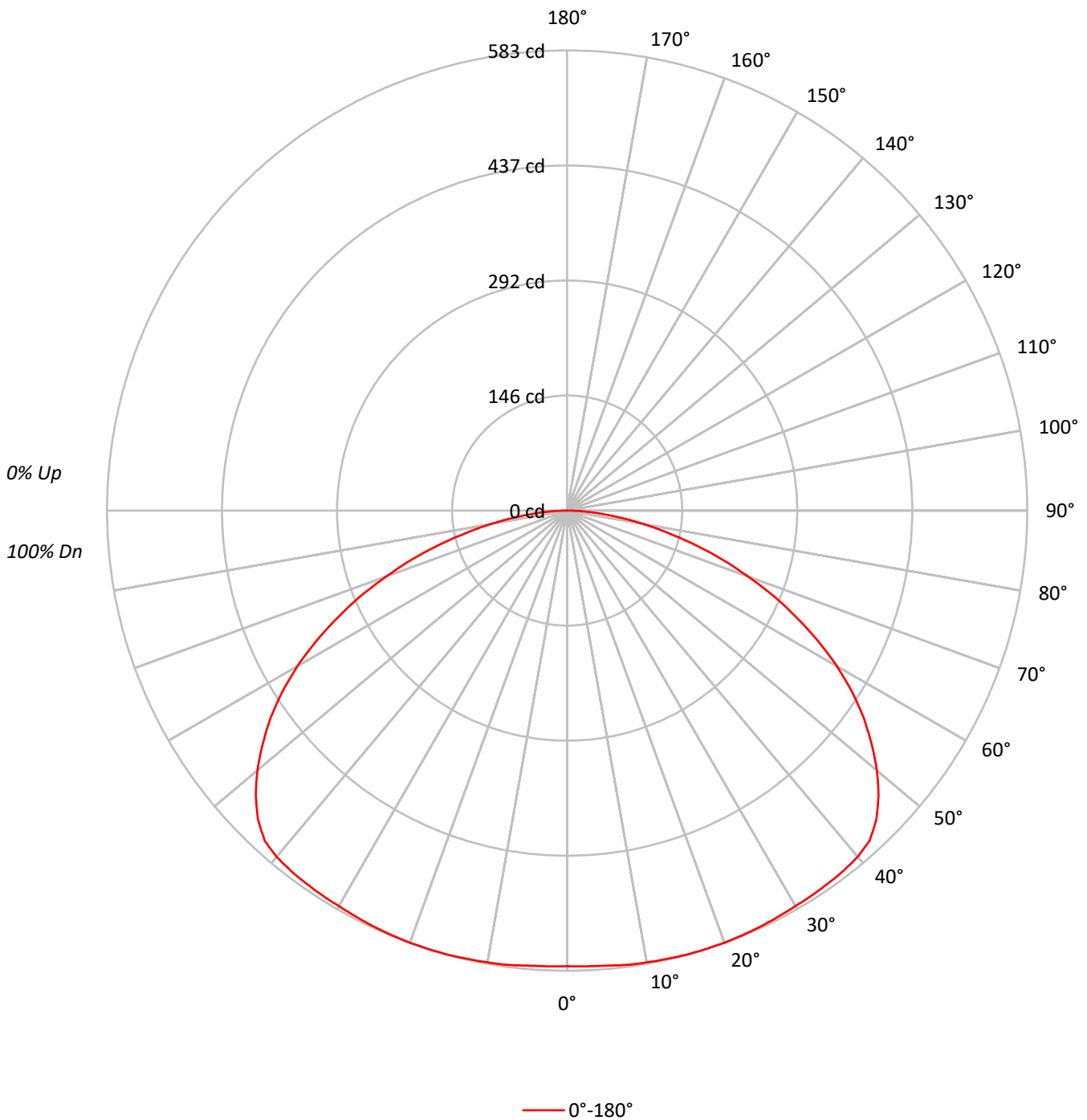
Lumens per Lamp: N/A
Luminaire Lumens: 2226.8 lumens
Efficiency: N/A
Efficacy: 34.5 lumens/watt
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.64
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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	97	93	96	93	90		92	90	87		89	87	84	82
2	98	89	81	75	95	87	80	74	83	78	73		80	75	71		77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60		70	64	59		67	62	58	55
4	80	68	58	51	78	66	58	51	64	56	50		61	55	49		59	53	49	46
5	73	60	50	43	71	59	50	43	57	49	43		55	48	42		53	47	42	39
6	68	54	44	37	66	53	44	37	51	43	37		49	42	36		47	41	36	34
7	62	48	39	33	61	47	39	32	46	38	32		44	37	32		43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	28		40	33	28		39	33	28	26
9	54	40	31	26	52	39	31	25	38	31	25		37	30	25		36	30	25	23
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3155
5°	3175
10°	3226
15°	3297
20°	3389
25°	3506
30°	3652
35°	3848
40°	4086
45°	4282
50°	4358
55°	4375
60°	4317
65°	4148
70°	3887
75°	3542
80°	3092
85°	2427

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 4375 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	2.5
10°-20°	165.1	7.4
20°-30°	268.8	12.1
30°-40°	362.0	16.3
40°-50°	425.0	19.1
50°-60°	408.8	18.4
60°-70°	317.1	14.2
70°-80°	178.0	8.0
80°-90°	46.6	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°	489.2	22.0
0°-40°	851.2	38.2
0°-60°	1685.1	75.7
0°-90°	2226.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2226.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	577	
5°	579	55
15°	583	165
25°	581	269
35°	577	362
45°	554	425
55°	459	409
65°	321	317
75°	168	178
85°	39	47
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	577.2
2.5°	577.9
5°	578.6
7.5°	580.6
10°	581.2
12.5°	581.9
15°	582.6
17.5°	582.6
20°	582.6
22.5°	581.9
25°	581.2
27.5°	579.9
30°	578.6
32.5°	577.9
35°	576.6
37.5°	575.2
40°	572.6
42.5°	567.2
45°	553.9
47.5°	535.1
50°	512.4
52.5°	486.4
55°	459.0
57.5°	428.2
60°	394.8
62.5°	358.8
65°	320.7
67.5°	283.3
70°	243.2
72.5°	205.8
75°	167.7
77.5°	130.9
80°	98.2
82.5°	66.8
85°	38.7
87.5°	16.7
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	17.71	19.43	18.07	19.74	20.06	17.71	19.43	18.07	19.74	20.06
	3H	19.53	21.09	19.91	21.42	21.78	19.53	21.09	19.91	21.42	21.78
	4H	20.19	21.66	20.59	22.01	22.38	20.19	21.66	20.59	22.01	22.38
	6H	20.65	22.02	21.06	22.38	22.77	20.65	22.02	21.06	22.38	22.77
	8H	20.79	22.10	21.22	22.49	22.89	20.79	22.10	21.22	22.49	22.89
	12H	20.88	22.14	21.31	22.52	22.95	20.88	22.14	21.31	22.52	22.95
4H	2H	18.37	19.84	18.76	20.19	20.56	18.37	19.84	18.76	20.19	20.56
	3H	20.40	21.64	20.81	22.04	22.44	20.40	21.64	20.81	22.04	22.44
	4H	21.18	22.31	21.61	22.72	23.15	21.18	22.31	21.61	22.72	23.15
	6H	21.77	22.75	22.22	23.19	23.64	21.77	22.75	22.22	23.19	23.64
	8H	21.95	22.88	22.41	23.32	23.78	21.95	22.88	22.41	23.32	23.78
	12H	22.08	22.91	22.56	23.39	23.86	22.08	22.91	22.56	23.39	23.86
8H	4H	21.50	22.42	21.95	22.86	23.32	21.50	22.42	21.95	22.86	23.32
	6H	22.19	22.96	22.68	23.45	23.92	22.19	22.96	22.68	23.45	23.92
	8H	22.45	23.14	22.95	23.64	24.12	22.45	23.14	22.95	23.64	24.12
	12H	22.64	23.25	23.14	23.74	24.29	22.64	23.25	23.14	23.74	24.29
12H	4H	21.53	22.36	22.01	22.84	23.30	21.53	22.36	22.01	22.84	23.30
	6H	22.25	22.94	22.75	23.44	23.93	22.25	22.94	22.75	23.44	23.93
	8H	22.55	23.16	23.06	23.65	24.21	22.55	23.16	23.06	23.65	24.21