

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: P866728

Luminaire Tested: PRLX-2001-L-930-100L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866728
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: Pentalux
Catalog Number: PRLX-2001-L-930-100L-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 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

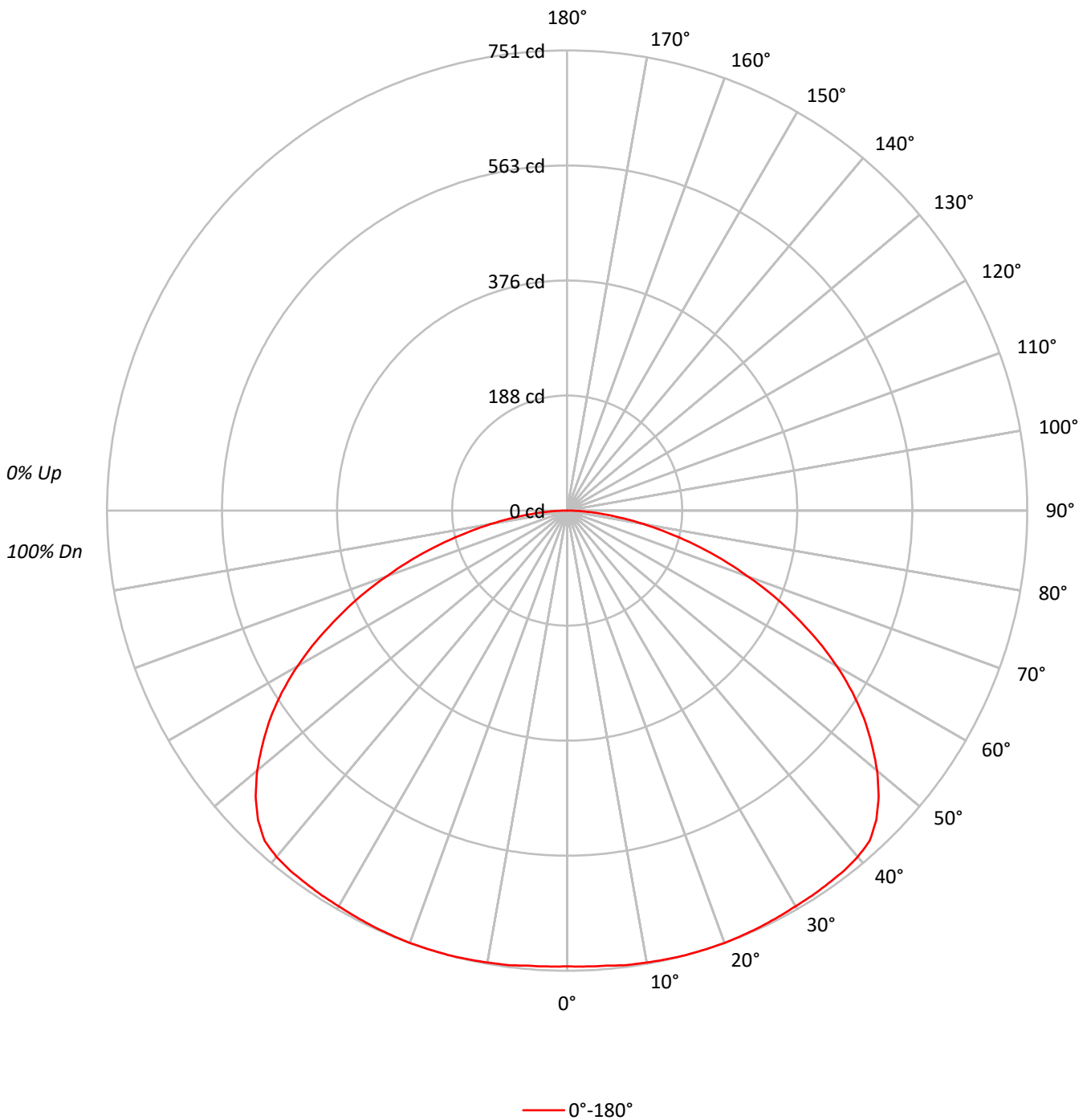
Lumens per Lamp: N/A
Luminaire Lumens: 2869.6 lumens
Efficiency: N/A
Efficacy: 36.1 lumens/watt
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.64
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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°	4067
5°	4092
10°	4158
15°	4249
20°	4368
25°	4518
30°	4707
35°	4959
40°	5265
45°	5518
50°	5617
55°	5638
60°	5563
65°	5346
70°	5009
75°	4565
80°	3986
85°	3130

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 5638 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	2.5
10°-20°	212.7	7.4
20°-30°	346.4	12.1
30°-40°	466.5	16.3
40°-50°	547.7	19.1
50°-60°	526.9	18.4
60°-70°	408.6	14.2
70°-80°	229.4	8.0
80°-90°	60.1	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°	630.5	22.0
0°-40°	1096.9	38.2
0°-60°	2171.5	75.7
0°-90°	2869.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2869.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	744	
5°	746	71
15°	751	213
25°	749	346
35°	743	466
45°	714	548
55°	592	527
65°	413	409
75°	216	229
85°	50	60
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	743.9
2.5°	744.7
5°	745.6
7.5°	748.2
10°	749.0
12.5°	749.9
15°	750.8
17.5°	750.8
20°	750.8
22.5°	749.9
25°	749.0
27.5°	747.3
30°	745.6
32.5°	744.7
35°	743.0
37.5°	741.3
40°	737.8
42.5°	731.0
45°	713.7
47.5°	689.6
50°	660.4
52.5°	626.8
55°	591.5
57.5°	551.9
60°	508.8
62.5°	462.3
65°	413.3
67.5°	365.0
70°	313.4
72.5°	265.2
75°	216.1
77.5°	168.7
80°	126.6
82.5°	86.1
85°	49.9
87.5°	21.5
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	18.59	20.31	18.95	20.62	20.94	18.59	20.31	18.95	20.62	20.94
	3H	20.41	21.97	20.79	22.30	22.66	20.41	21.97	20.79	22.30	22.66
	4H	21.07	22.54	21.47	22.89	23.26	21.07	22.54	21.47	22.89	23.26
	6H	21.53	22.90	21.94	23.26	23.65	21.53	22.90	21.94	23.26	23.65
	8H	21.67	22.98	22.10	23.37	23.77	21.67	22.98	22.10	23.37	23.77
	12H	21.76	23.02	22.19	23.40	23.83	21.76	23.02	22.19	23.40	23.83
4H	2H	19.25	20.72	19.65	21.07	21.44	19.25	20.72	19.65	21.07	21.44
	3H	21.28	22.52	21.69	22.92	23.32	21.28	22.52	21.69	22.92	23.32
	4H	22.06	23.19	22.49	23.60	24.03	22.06	23.19	22.49	23.60	24.03
	6H	22.65	23.63	23.10	24.07	24.53	22.65	23.63	23.10	24.07	24.53
	8H	22.84	23.76	23.29	24.20	24.66	22.84	23.76	23.29	24.20	24.66
	12H	22.96	23.80	23.44	24.27	24.74	22.96	23.80	23.44	24.27	24.74
8H	4H	22.38	23.30	22.83	23.74	24.20	22.38	23.30	22.83	23.74	24.20
	6H	23.07	23.84	23.57	24.33	24.80	23.07	23.84	23.57	24.33	24.80
	8H	23.33	24.02	23.83	24.52	25.00	23.33	24.02	23.83	24.52	25.00
	12H	23.52	24.13	24.02	24.62	25.18	23.52	24.13	24.02	24.62	25.18
12H	4H	22.41	23.24	22.89	23.72	24.19	22.41	23.24	22.89	23.72	24.19
	6H	23.13	23.82	23.63	24.32	24.81	23.13	23.82	23.63	24.32	24.81
	8H	23.43	24.05	23.94	24.54	25.09	23.43	24.05	23.94	24.54	25.09