

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: P865716

Luminaire Tested: PRLX-2002-S-940-20L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-940-20L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

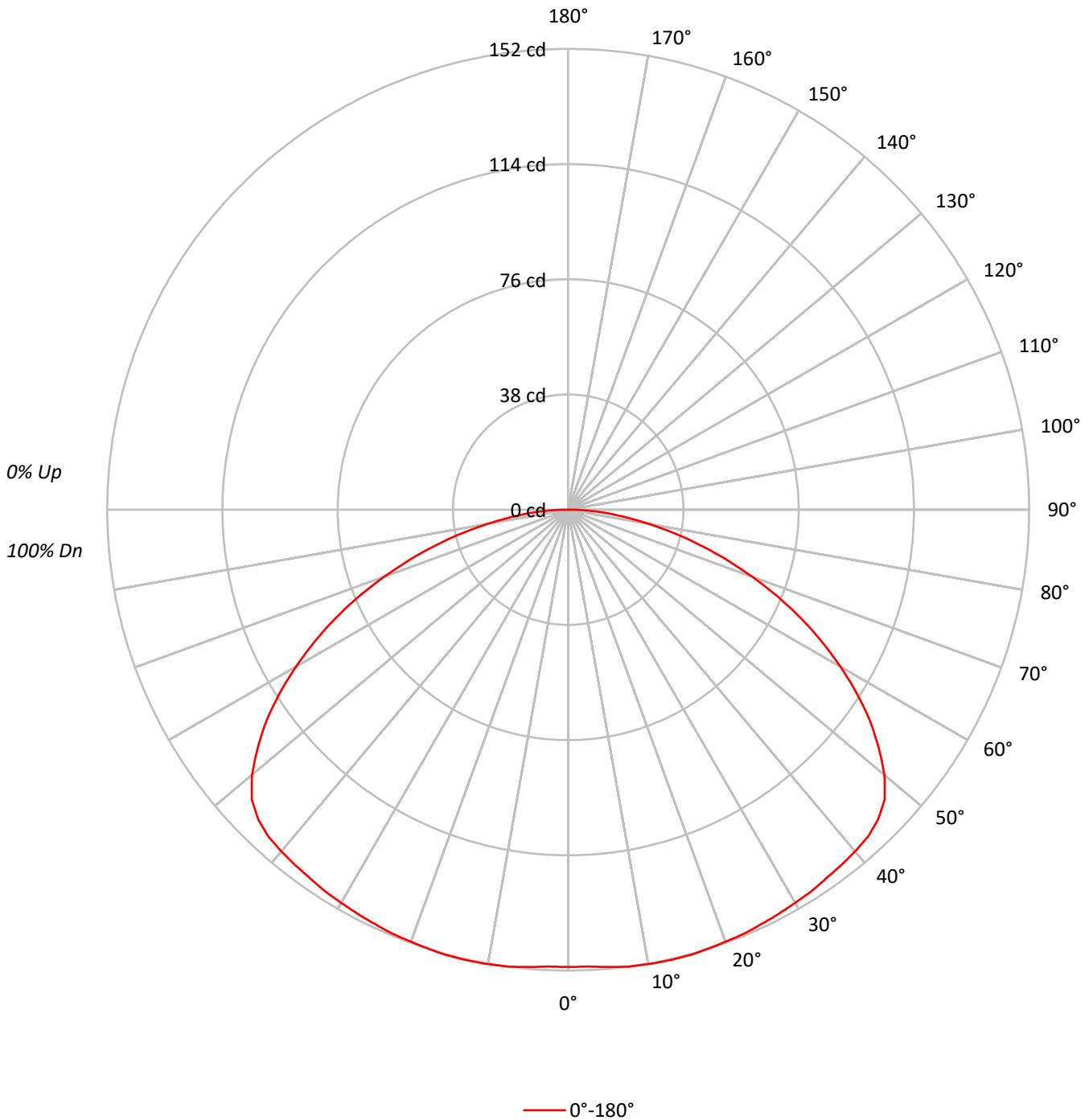
Lumens per Lamp: N/A
Luminaire Lumens: 584.9 lumens
Efficiency: N/A
Efficacy: 26.8 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.65
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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: 0.333 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	100	96	92	96	93	89		92	89	87		89	86	84	82
2	97	88	81	75	95	87	80	74	83	77	72		80	75	71		77	73	69	67
3	88	77	68	61	86	75	67	61	72	65	59		69	63	58		67	62	57	55
4	80	67	58	51	78	66	57	51	63	56	50		61	54	49		59	53	48	46
5	73	60	50	43	71	59	50	43	56	48	42		54	47	42		52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	37		49	42	36		47	41	36	34
7	62	48	39	32	60	47	38	32	46	38	32		44	37	32		43	36	31	29
8	58	43	35	28	56	43	34	28	41	34	28		40	33	28		39	33	28	26
9	54	40	31	25	52	39	31	25	38	30	25		37	30	25		36	29	25	23
10	50	36	28	23	49	36	28	23	35	28	23		34	27	22		33	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2833
5°	2855
10°	2903
15°	2962
20°	3030
25°	3126
30°	3247
35°	3403
40°	3607
45°	3839
50°	3977
55°	3979
60°	3896
65°	3760
70°	3537
75°	3259
80°	2932
85°	2629

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 3984 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.5	2.5
10°-20°	43.1	7.4
20°-30°	69.8	11.9
30°-40°	93.2	15.9
40°-50°	111.0	19.0
50°-60°	108.1	18.5
60°-70°	83.5	14.3
70°-80°	47.7	8.2
80°-90°	13.9	2.4
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°	127.4	21.8
0°-40°	220.6	37.7
0°-60°	439.7	75.2
0°-90°	584.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	584.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	151	
5°	151	14
15°	152	43
25°	151	70
35°	148	93
45°	144	111
55°	122	108
65°	85	84
75°	45	48
85°	12	14
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	150.8
2.5°	150.8
5°	151.4
7.5°	152.0
10°	152.2
12.5°	152.3
15°	152.3
17.5°	152.0
20°	151.6
22.5°	151.4
25°	150.8
27.5°	150.3
30°	149.7
32.5°	149.2
35°	148.4
37.5°	147.8
40°	147.1
42.5°	146.3
45°	144.5
47.5°	141.5
50°	136.1
52.5°	129.1
55°	121.5
57.5°	112.9
60°	103.7
62.5°	94.3
65°	84.6
67.5°	74.7
70°	64.4
72.5°	54.6
75°	44.9
77.5°	35.7
80°	27.1
82.5°	19.1
85°	12.2
87.5°	6.4
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	17.37	19.09	17.73	19.41	19.72	17.37	19.09	17.73	19.41	19.72
	3H	19.20	20.77	19.57	21.09	21.45	19.20	20.77	19.57	21.09	21.45
	4H	19.87	21.35	20.27	21.70	22.07	19.87	21.35	20.27	21.70	22.07
	6H	20.37	21.74	20.77	22.10	22.49	20.37	21.74	20.77	22.10	22.49
	8H	20.53	21.85	20.95	22.23	22.63	20.53	21.85	20.95	22.23	22.63
	12H	20.65	21.91	21.07	22.29	22.72	20.65	21.91	21.07	22.29	22.72
4H	2H	18.03	19.51	18.42	19.85	20.23	18.03	19.51	18.42	19.85	20.23
	3H	20.07	21.32	20.48	21.71	22.11	20.07	21.32	20.48	21.71	22.11
	4H	20.87	22.00	21.30	22.41	22.85	20.87	22.00	21.30	22.41	22.85
	6H	21.50	22.49	21.95	22.93	23.38	21.50	22.49	21.95	22.93	23.38
	8H	21.71	22.64	22.17	23.08	23.54	21.71	22.64	22.17	23.08	23.54
	12H	21.88	22.72	22.35	23.19	23.66	21.88	22.72	22.35	23.19	23.66
8H	4H	21.20	22.13	21.65	22.57	23.03	21.20	22.13	21.65	22.57	23.03
	6H	21.94	22.72	22.43	23.21	23.68	21.94	22.72	22.43	23.21	23.68
	8H	22.23	22.93	22.74	23.43	23.92	22.23	22.93	22.74	23.43	23.92
	12H	22.48	23.10	22.98	23.58	24.14	22.48	23.10	22.98	23.58	24.14
12H	4H	21.24	22.08	21.71	22.55	23.02	21.24	22.08	21.71	22.55	23.02
	6H	22.01	22.71	22.51	23.21	23.69	22.01	22.71	22.51	23.21	23.69
	8H	22.35	22.97	22.86	23.46	24.02	22.35	22.97	22.86	23.46	24.02