

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: P865837

Luminaire Tested: PRLX-2004-S-935-20L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865837
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-S-935-20L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

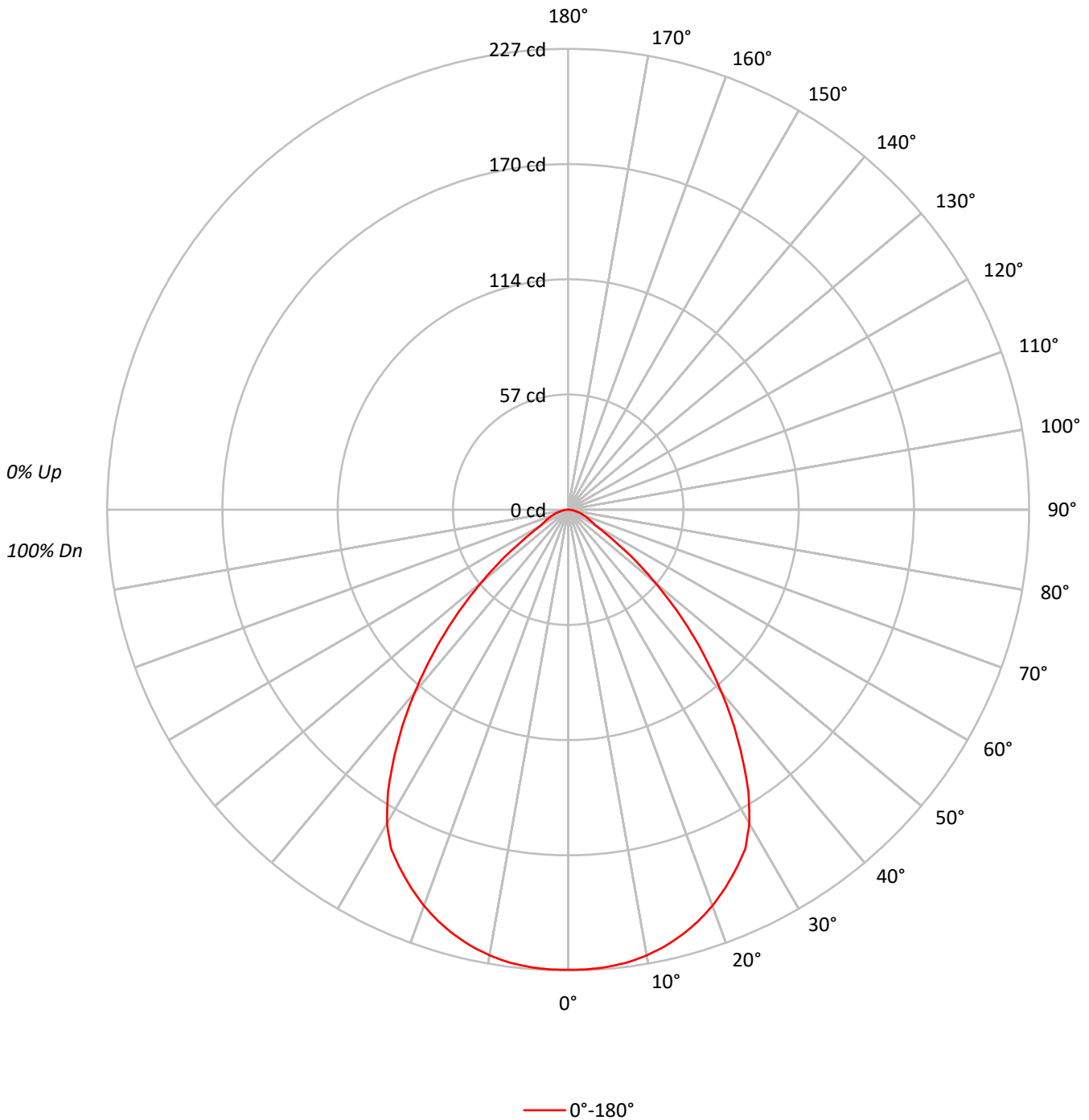
Lumens per Lamp: N/A
Luminaire Lumens: 379.6 lumens
Efficiency: N/A
Efficacy: 17.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.16
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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

TEST NUMBER: P865837

CATALOG NUMBER: PRLX-2004-S-935-20L-G-U-S-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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72
4	91	81	74	69	89	80	73	68	78	72	68	76	71	67	74	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	60	58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	53	47	42	52	46	42	51	46	41	50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3696
5°	3700
10°	3692
15°	3661
20°	3603
25°	3516
30°	3360
35°	2979
40°	2504
45°	1979
50°	1418
55°	879
60°	519
65°	440
70°	386
75°	353
80°	310
85°	299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1979 cd/sqm

TEST NUMBER: P865837

CATALOG NUMBER: PRLX-2004-S-935-20L-G-U-S-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.5	5.7
10°-20°	61.1	16.1
20°-30°	89.7	23.6
30°-40°	93.0	24.5
40°-50°	66.0	17.4
50°-60°	29.1	7.7
60°-70°	11.5	3.0
70°-80°	6.0	1.6
80°-90°	1.8	0.5
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°	172.3	45.4
0°-40°	265.2	69.9
0°-60°	360.3	94.9
0°-90°	379.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	379.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	227	
5°	226	21
15°	217	61
25°	195	90
35°	150	93
45°	86	66
55°	31	29
65°	11	12
75°	6	6
85°	2	2
90°	0	

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CATALOG NUMBER: PRLX-2004-S-935-20L-G-U-S-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	226.6
2.5°	226.6
5°	226.0
7.5°	224.9
10°	222.9
12.5°	220.2
15°	216.8
17.5°	212.6
20°	207.6
22.5°	201.8
25°	195.4
27.5°	188.6
30°	178.4
32.5°	165.2
35°	149.6
37.5°	133.9
40°	117.6
42.5°	101.3
45°	85.8
47.5°	70.2
50°	55.9
52.5°	43.1
55°	30.9
57.5°	21.5
60°	15.9
62.5°	13.4
65°	11.4
67.5°	9.8
70°	8.1
72.5°	6.9
75°	5.6
77.5°	4.5
80°	3.3
82.5°	2.5
85°	1.6
87.5°	0.7
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	7.31	8.61	7.68	8.92	9.24	7.31	8.61	7.68	8.92	9.24
	3H	8.22	9.36	8.60	9.69	10.06	8.22	9.36	8.60	9.69	10.06
	4H	8.58	9.64	8.98	10.00	10.38	8.58	9.64	8.98	10.00	10.38
	6H	8.85	9.82	9.26	10.20	10.59	8.85	9.82	9.26	10.20	10.59
	8H	8.94	9.86	9.37	10.25	10.66	8.94	9.86	9.37	10.25	10.66
	12H	9.00	9.88	9.43	10.26	10.69	9.00	9.88	9.43	10.26	10.69
4H	2H	7.55	8.61	7.95	8.96	9.34	7.55	8.61	7.95	8.96	9.34
	3H	8.67	9.54	9.09	9.94	10.35	8.67	9.54	9.09	9.94	10.35
	4H	9.15	9.92	9.59	10.34	10.79	9.15	9.92	9.59	10.34	10.79
	6H	9.54	10.20	10.00	10.65	11.12	9.54	10.20	10.00	10.65	11.12
	8H	9.67	10.29	10.14	10.74	11.21	9.67	10.29	10.14	10.74	11.21
	12H	9.77	10.32	10.25	10.80	11.28	9.77	10.32	10.25	10.80	11.28
8H	4H	9.29	9.91	9.76	10.36	10.83	9.29	9.91	9.76	10.36	10.83
	6H	9.77	10.28	10.28	10.78	11.26	9.77	10.28	10.28	10.78	11.26
	8H	9.97	10.43	10.49	10.94	11.44	9.97	10.43	10.49	10.94	11.44
	12H	10.15	10.55	10.66	11.05	11.62	10.15	10.55	10.66	11.05	11.62
12H	4H	9.28	9.83	9.77	10.31	10.79	9.28	9.83	9.77	10.31	10.79
	6H	9.78	10.24	10.31	10.76	11.25	9.78	10.24	10.31	10.76	11.25
	8H	10.03	10.44	10.55	10.94	11.51	10.03	10.44	10.55	10.94	11.51