

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: P865703

Luminaire Tested: PRLX-2002-S-940-10L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-940-10L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

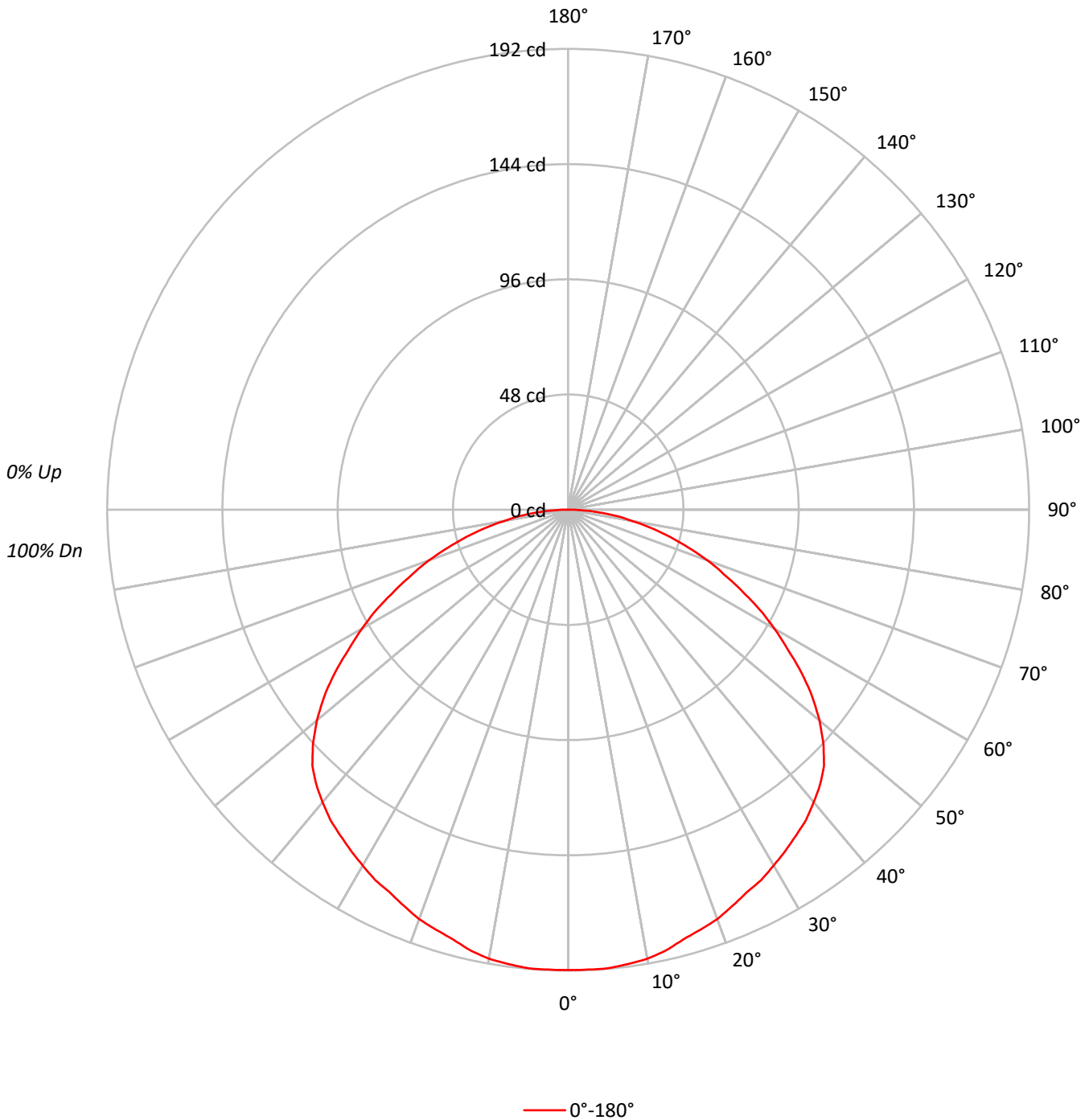
Lumens per Lamp: N/A
Luminaire Lumens: 617.7 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.49
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P865703

CATALOG NUMBER: PRLX-2002-S-940-10L-G-U-S-X-X-WHHR-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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	88	81	76	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	37	31	57	45	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3603
5°	3617
10°	3624
15°	3604
20°	3628
25°	3646
30°	3713
35°	3797
40°	3901
45°	4003
50°	3992
55°	3891
60°	3727
65°	3534
70°	3394
75°	3193
80°	2932
85°	2823

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 4007 cd/sqm

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CATALOG NUMBER: PRLX-2002-S-940-10L-G-U-S-X-X-WHHR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.2	3.0
10°-20°	52.5	8.5
20°-30°	81.4	13.2
30°-40°	103.8	16.8
40°-50°	115.5	18.7
50°-60°	105.9	17.1
60°-70°	79.2	12.8
70°-80°	46.5	7.5
80°-90°	14.7	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°	152.2	24.6
0°-40°	256.0	41.4
0°-60°	477.4	77.3
0°-90°	617.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	617.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	192	
5°	192	18
15°	185	52
25°	176	81
35°	166	104
45°	151	116
55°	119	106
65°	80	79
75°	44	47
85°	13	15
90°	0	

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CATALOG NUMBER: PRLX-2002-S-940-10L-G-U-S-X-X-WHHR-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	191.8
2.5°	191.8
5°	191.8
7.5°	190.9
10°	190.0
12.5°	188.1
15°	185.3
17.5°	183.4
20°	181.5
22.5°	178.7
25°	175.9
27.5°	174.0
30°	171.2
32.5°	168.4
35°	165.6
37.5°	162.8
40°	159.1
42.5°	155.3
45°	150.7
47.5°	144.1
50°	136.6
52.5°	128.2
55°	118.8
57.5°	108.5
60°	99.2
62.5°	89.8
65°	79.5
67.5°	70.2
70°	61.8
72.5°	52.4
75°	44.0
77.5°	35.6
80°	27.1
82.5°	20.6
85°	13.1
87.5°	6.6
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	16.96	18.64	17.32	18.95	19.27	16.96	18.64	17.32	18.95	19.27
	3H	18.74	20.27	19.12	20.59	20.95	18.74	20.27	19.12	20.59	20.95
	4H	19.44	20.88	19.84	21.22	21.60	19.44	20.88	19.84	21.22	21.60
	6H	19.97	21.31	20.38	21.67	22.06	19.97	21.31	20.38	21.67	22.06
	8H	20.17	21.45	20.59	21.83	22.23	20.17	21.45	20.59	21.83	22.23
	12H	20.32	21.54	20.75	21.92	22.35	20.32	21.54	20.75	21.92	22.35
4H	2H	17.58	19.02	17.98	19.37	19.74	17.58	19.02	17.98	19.37	19.74
	3H	19.60	20.81	20.01	21.21	21.61	19.60	20.81	20.01	21.21	21.61
	4H	20.43	21.53	20.86	21.94	22.38	20.43	21.53	20.86	21.94	22.38
	6H	21.11	22.07	21.56	22.51	22.96	21.11	22.07	21.56	22.51	22.96
	8H	21.36	22.26	21.82	22.70	23.17	21.36	22.26	21.82	22.70	23.17
	12H	21.56	22.38	22.04	22.85	23.32	21.56	22.38	22.04	22.85	23.32
8H	4H	20.77	21.67	21.23	22.11	22.57	20.77	21.67	21.23	22.11	22.57
	6H	21.57	22.32	22.06	22.81	23.28	21.57	22.32	22.06	22.81	23.28
	8H	21.92	22.59	22.42	23.10	23.58	21.92	22.59	22.42	23.10	23.58
	12H	22.21	22.81	22.71	23.30	23.86	22.21	22.81	22.71	23.30	23.86
12H	4H	20.81	21.62	21.29	22.10	22.57	20.81	21.62	21.29	22.10	22.57
	6H	21.64	22.32	22.15	22.83	23.31	21.64	22.32	22.15	22.83	23.31
	8H	22.05	22.65	22.56	23.14	23.70	22.05	22.65	22.56	23.14	23.70