

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P979561

Luminaire Tested: PRLX-240-940-LL7-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-940-LL7-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

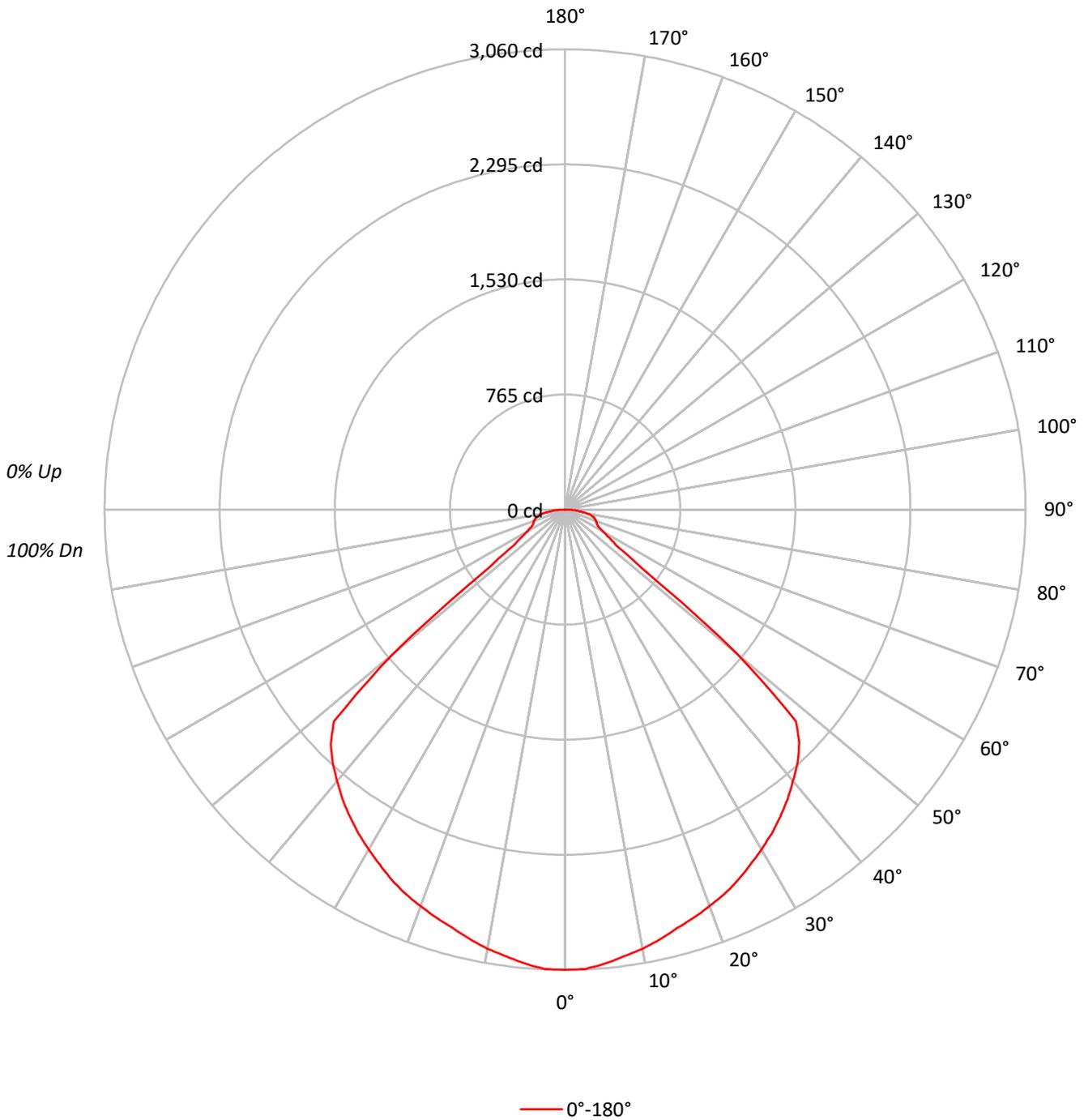
Lumens per Lamp: N/A
Luminaire Lumens: 6585.4 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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: NR
Operation Time: NR
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	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	88	78	70	64	86	77	70	64	74	68	63	72	67	62	70	65	62	60
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	36	46	40	36	35
10	58	46	38	34	57	45	38	34	44	38	33	43	37	33	43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	30810
5°	30636
10°	30314
15°	30024
20°	30066
25°	30210
30°	30343
35°	30633
40°	30965
45°	31342
50°	23415
55°	7285
60°	5822
65°	5608
70°	6444
75°	7629
80°	8738
85°	8584

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 31342 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.1	4.4
10°-20°	815.2	12.4
20°-30°	1253.6	19.0
30°-40°	1560.6	23.7
40°-50°	1637.2	24.9
50°-60°	506.1	7.7
60°-70°	239.9	3.6
70°-80°	202.6	3.1
80°-90°	82.9	1.3
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°	2356.0	35.8
0°-40°	3916.6	59.5
0°-60°	6060.0	92.0
0°-90°	6585.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6585.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3060	
5°	3031	287
15°	2880	815
25°	2719	1254
35°	2492	1561
45°	2201	1637
55°	415	506
65°	235	240
75°	196	203
85°	74	83
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3059.9
2.5°	3057.8
5°	3031.0
7.5°	2995.9
10°	2964.9
12.5°	2925.7
15°	2880.2
17.5°	2845.1
20°	2805.9
22.5°	2766.7
25°	2719.2
27.5°	2663.5
30°	2609.8
32.5°	2554.0
35°	2492.1
37.5°	2428.1
40°	2355.8
42.5°	2285.6
45°	2201.0
47.5°	2081.2
50°	1494.8
52.5°	642.1
55°	415.0
57.5°	344.8
60°	289.1
62.5°	251.9
65°	235.4
67.5°	227.1
70°	218.9
72.5°	208.5
75°	196.1
77.5°	177.6
80°	150.7
82.5°	113.6
85°	74.3
87.5°	41.3
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	14.89	16.32	15.26	16.63	16.95	14.89	16.32	15.26	16.63	16.95
	3H	16.85	18.12	17.23	18.45	18.81	16.85	18.12	17.23	18.45	18.81
	4H	18.01	19.20	18.41	19.55	19.93	18.01	19.20	18.41	19.55	19.93
	6H	19.15	20.23	19.56	20.60	21.00	19.15	20.23	19.56	20.60	21.00
	8H	19.57	20.61	20.00	21.00	21.40	19.57	20.61	20.00	21.00	21.40
	12H	19.88	20.87	20.31	21.25	21.68	19.88	20.87	20.31	21.25	21.68
4H	2H	15.40	16.58	15.80	16.93	17.31	15.40	16.58	15.80	16.93	17.31
	3H	17.77	18.74	18.18	19.14	19.54	17.77	18.74	18.18	19.14	19.54
	4H	19.15	20.01	19.58	20.43	20.87	19.15	20.01	19.58	20.43	20.87
	6H	20.47	21.23	20.93	21.67	22.13	20.47	21.23	20.93	21.67	22.13
	8H	20.97	21.67	21.43	22.12	22.59	20.97	21.67	21.43	22.12	22.59
	12H	21.34	21.97	21.82	22.45	22.92	21.34	21.97	21.82	22.45	22.92
8H	4H	19.68	20.39	20.14	20.83	21.30	19.68	20.39	20.14	20.83	21.30
	6H	21.18	21.77	21.68	22.26	22.74	21.18	21.77	21.68	22.26	22.74
	8H	21.79	22.32	22.30	22.83	23.32	21.79	22.32	22.30	22.83	23.32
	12H	22.27	22.75	22.78	23.24	23.81	22.27	22.75	22.78	23.24	23.81
12H	4H	19.77	20.40	20.26	20.88	21.36	19.77	20.40	20.26	20.88	21.36
	6H	21.32	21.85	21.84	22.37	22.86	21.32	21.85	21.84	22.37	22.86
	8H	22.00	22.48	22.52	22.97	23.54	22.00	22.48	22.52	22.97	23.54