

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: PORTFOLIO

Report Number: P740107

Luminaire Tested: LD4D05D010-EU4DR300210IC9030-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P740107
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D05D010-EU4DR300210IC9030-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 521.7 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
Input Voltage (V): NR
Input Current (A_{in}): 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

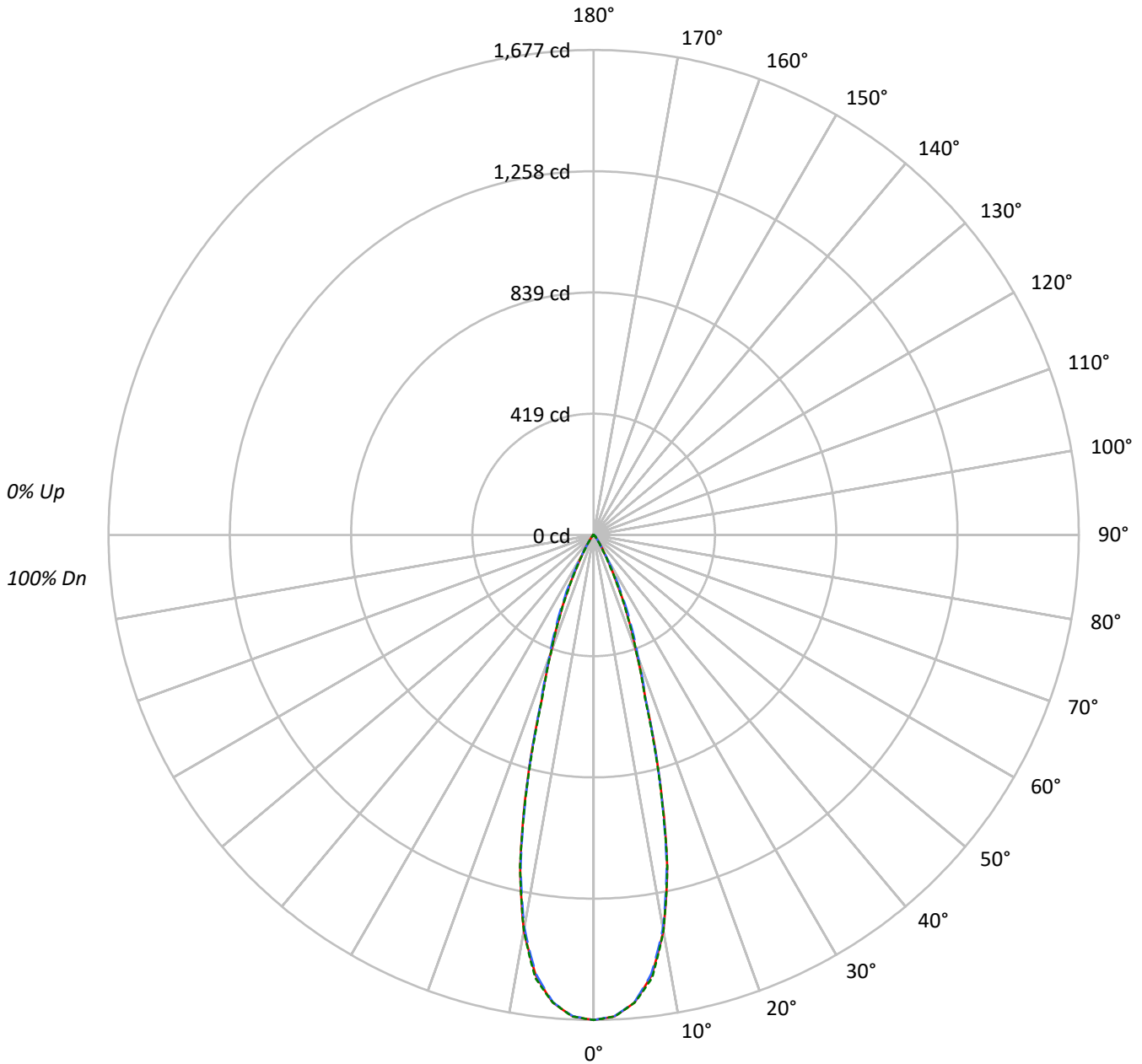


Downlight



TEST NUMBER: P740107
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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	128394	128394	128394
5°	124712	124566	124720
10°	108013	107259	107990
15°	70479	70099	69750
20°	35042	36362	35002
25°	17651	19906	17288
30°	7071	7698	6160
35°	3280	3140	2635
40°	1419	1579	1329
45°	996	1245	1007
50°	345	905	357
55°	200	374	200
60°	138	168	138
65°	91	91	91
70°	45	45	45
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 1245 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.5	28.3
10°-20°	237.6	45.5
20°-30°	102.7	19.7
30°-40°	23.4	4.5
40°-50°	8.0	1.5
50°-60°	2.0	0.4
60°-70°	0.5	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	487.7	93.5
0°-40°	511.1	98.0
0°-60°	521.1	99.9
0°-90°	521.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	521.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1677	1677	1677	1677	1677	
5°	1623	1622	1621	1624	1623	148
15°	889	879	885	882	880	238
25°	209	217	236	211	205	100
35°	35	36	34	33	28	24
45°	9	12	12	12	9	7
55°	2	2	3	2	2	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1677.4	1677.4	1677.4	1677.4	1677.4
2.5°	1666.3	1665.2	1665.8	1666.7	1666.9
5°	1623.1	1621.5	1621.2	1624.5	1623.2
7.5°	1535.9	1533.6	1530.2	1537.9	1545.1
10°	1389.7	1387.3	1380.0	1383.6	1389.4
12.5°	1174.1	1166.1	1165.9	1177.5	1175.9
15°	889.4	878.7	884.6	881.7	880.2
17.5°	598.0	594.0	601.9	599.5	589.2
20°	430.2	431.3	446.4	438.8	429.7
22.5°	313.9	317.8	335.7	316.2	309.0
25°	209.0	216.9	235.7	211.4	204.7
27.5°	128.6	132.2	151.2	126.9	123.3
30°	80.0	78.2	87.1	74.8	69.7
32.5°	52.5	50.1	53.1	47.6	43.5
35°	35.1	35.8	33.6	33.3	28.2
37.5°	21.9	25.2	22.2	23.7	18.1
40°	14.2	18.3	15.8	17.4	13.3
42.5°	11.6	14.1	12.9	13.8	11.9
45°	9.2	11.5	11.5	11.5	9.3
47.5°	5.1	7.7	9.8	7.8	5.4
50°	2.9	3.9	7.6	4.0	3.0
52.5°	1.9	2.2	5.2	2.3	2.1
55°	1.5	1.5	2.8	1.7	1.5
57.5°	1.1	1.3	1.5	1.3	1.1
60°	0.9	0.9	1.1	1.0	0.9
62.5°	0.6	0.6	0.7	0.6	0.6
65°	0.5	0.5	0.5	0.5	0.5
67.5°	0.2	0.3	0.3	0.3	0.3
70°	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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