

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: P745102

Luminaire Tested: LD4D25D010-EU4DR3020359050-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745102
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: LD4D25D010-EU4DR3020359050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2625.9 lumens
Efficiency: N/A
Efficacy: 104.6 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): 25.1
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

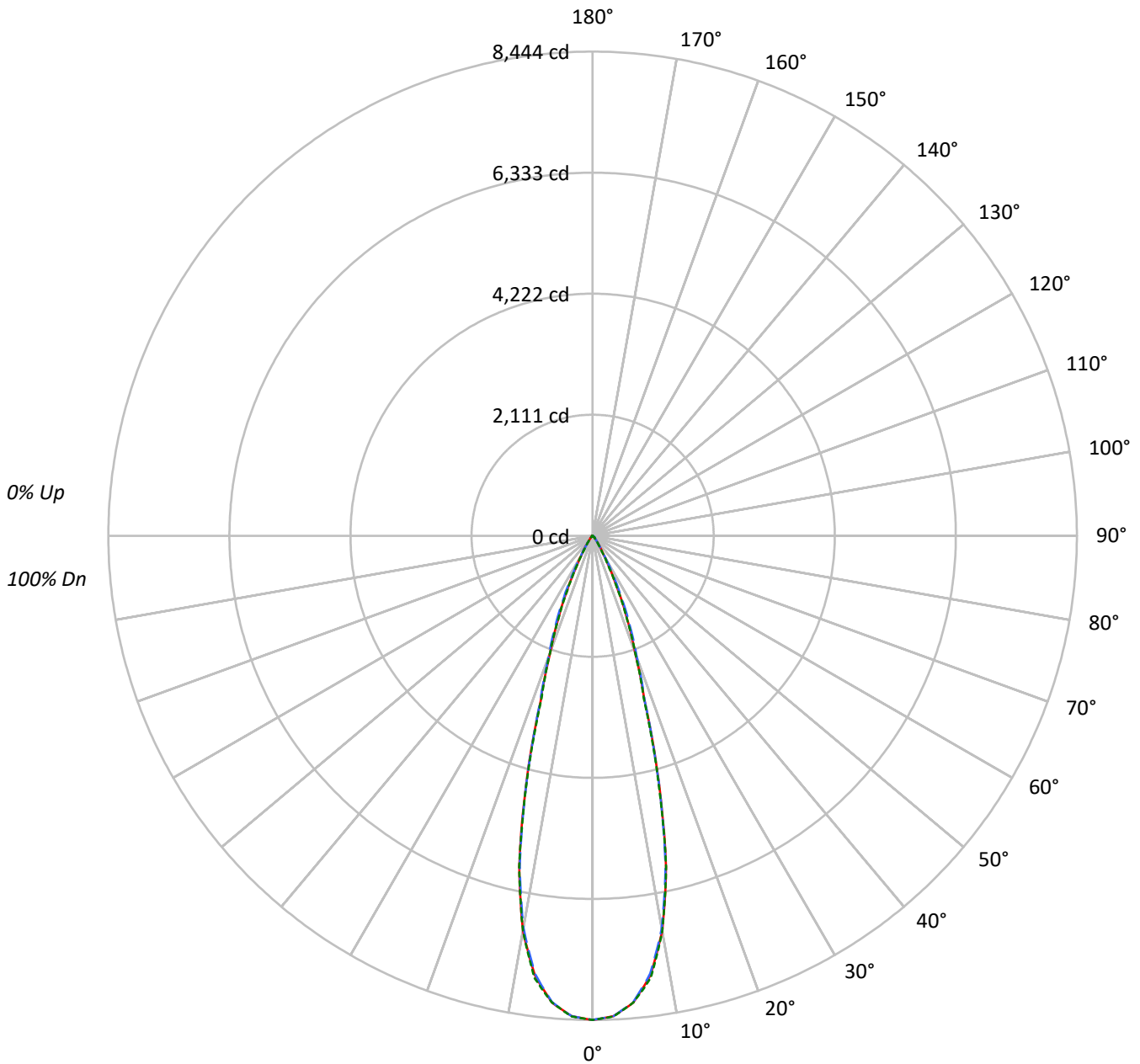


Downlight



TEST NUMBER: P745102
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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°	646294	646294	646294
5°	627741	627003	627771
10°	543712	539880	543588
15°	354750	352840	351065
20°	176401	183015	176164
25°	88856	100199	87041
30°	35575	38766	30997
35°	16502	15801	13241
40°	7124	7914	6705
45°	5023	6235	5077
50°	1727	4549	1834
55°	988	1882	1041
60°	704	827	704
65°	453	453	453
70°	291	179	291
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6235 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	742.5	28.3
10°-20°	1195.8	45.5
20°-30°	516.7	19.7
30°-40°	117.8	4.5
40°-50°	40.4	1.5
50°-60°	9.9	0.4
60°-70°	2.6	0.1
70°-80°	0.3	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°	2455.0	93.5
0°-40°	2572.7	98.0
0°-60°	2623.0	99.9
0°-90°	2625.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2625.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8444	8444	8444	8444	8444	
5°	8170	8162	8160	8177	8170	743
15°	4477	4423	4453	4438	4430	1199
25°	1052	1092	1186	1064	1031	504
35°	177	180	169	168	142	120
45°	46	58	58	58	47	33
55°	7	8	14	8	8	7
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8443.5	8443.5	8443.5	8443.5	8443.5
2.5°	8387.5	8381.7	8385.0	8389.1	8390.8
5°	8169.9	8162.0	8160.3	8177.3	8170.3
7.5°	7730.9	7719.7	7702.7	7741.3	7777.3
10°	6995.4	6983.0	6946.1	6964.4	6993.8
12.5°	5909.8	5869.5	5868.7	5926.8	5918.9
15°	4476.7	4422.8	4452.6	4438.1	4430.2
17.5°	3010.5	2989.7	3029.5	3017.5	2965.7
20°	2165.6	2171.0	2246.8	2208.7	2162.7
22.5°	1580.3	1599.7	1689.7	1591.4	1555.4
25°	1052.1	1091.9	1186.4	1064.1	1030.6
27.5°	647.1	665.4	761.1	638.8	620.6
30°	402.5	393.4	438.6	376.4	350.7
32.5°	264.1	252.4	267.0	239.6	218.9
35°	176.6	180.3	169.1	167.9	141.7
37.5°	110.3	126.9	112.0	119.4	91.2
40°	71.3	92.0	79.2	87.5	67.1
42.5°	58.4	70.9	65.1	69.2	59.7
45°	46.4	57.6	57.6	57.6	46.9
47.5°	25.7	38.6	49.3	39.4	27.4
50°	14.5	19.5	38.2	20.3	15.4
52.5°	10.0	11.2	26.1	11.6	10.4
55°	7.4	7.8	14.1	8.3	7.8
57.5°	5.8	6.2	7.4	6.2	5.8
60°	4.6	4.6	5.4	5.0	4.6
62.5°	3.3	3.3	3.7	3.3	3.3
65°	2.5	2.5	2.5	2.5	2.5
67.5°	1.3	1.7	1.7	1.7	1.7
70°	1.3	0.8	0.8	0.8	1.3
72.5°	0.8	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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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