

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: P745078

Luminaire Tested: LD4D25D010-EU4DR3020359035-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745078
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-EU4DR3020359035-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2457.8 lumens
Efficiency: N/A
Efficacy: 97.9 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

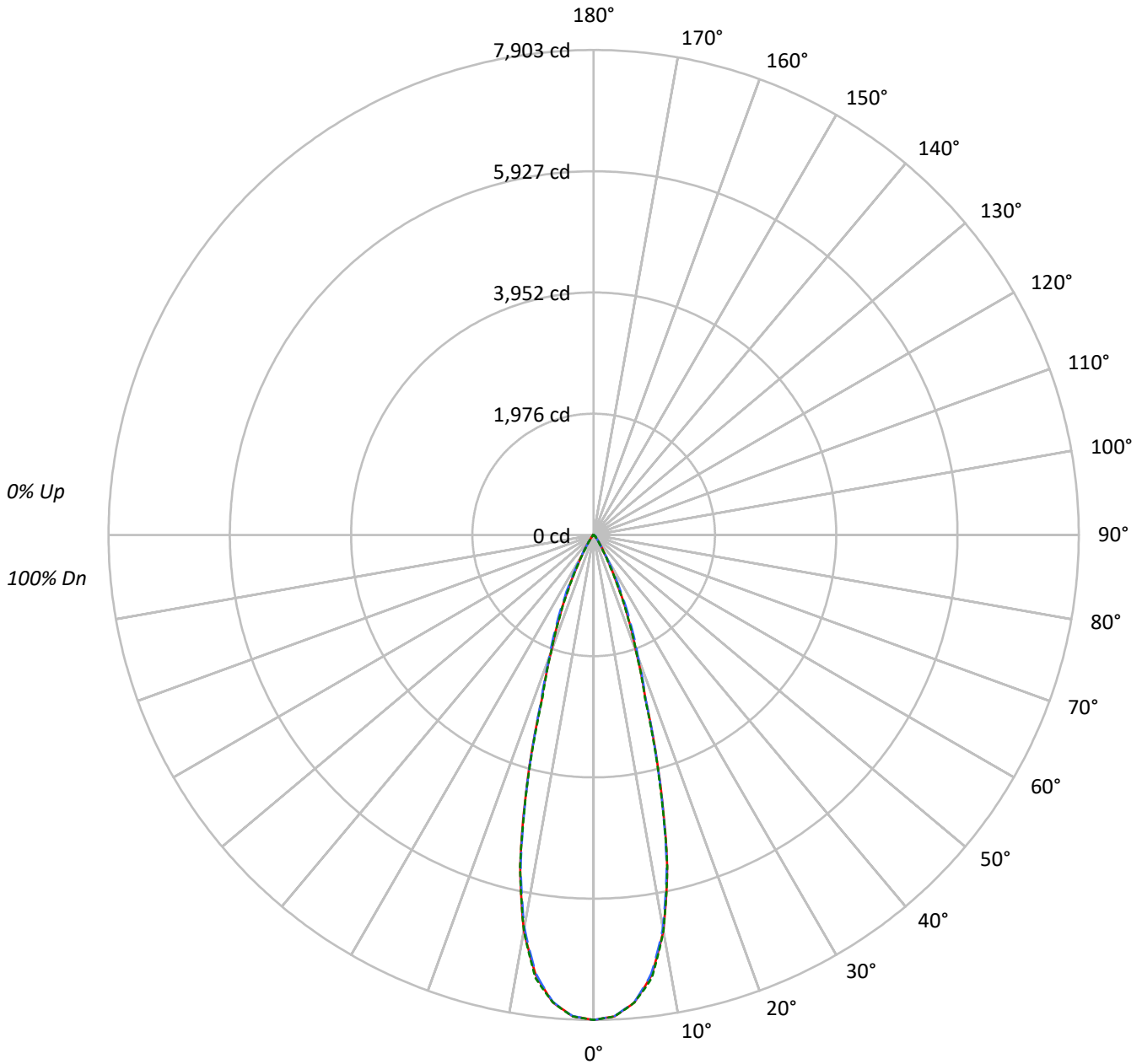


Downlight



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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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	604938	604938	604938
5°	587571	586887	587602
10°	508930	505339	508806
15°	332046	330263	328607
20°	165111	171310	164891
25°	83173	93789	81467
30°	33303	36282	29008
35°	15446	14792	12400
40°	6665	7404	6285
45°	4698	5835	4741
50°	1619	4251	1715
55°	934	1762	988
60°	643	765	643
65°	417	417	417
70°	246	179	246
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5835 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	695.0	28.3
10°-20°	1119.2	45.5
20°-30°	483.7	19.7
30°-40°	110.2	4.5
40°-50°	37.8	1.5
50°-60°	9.2	0.4
60°-70°	2.4	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°	2297.9	93.5
0°-40°	2408.1	98.0
0°-60°	2455.2	99.9
0°-90°	2457.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2457.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7903	7903	7903	7903	7903	
5°	7647	7640	7638	7654	7648	696
15°	4190	4140	4168	4154	4147	1122
25°	985	1022	1110	996	965	471
35°	165	169	158	157	133	112
45°	43	54	54	54	44	31
55°	7	7	13	8	7	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°	7903.2	7903.2	7903.2	7903.2	7903.2
2.5°	7850.8	7845.4	7848.5	7852.3	7854.0
5°	7647.1	7639.7	7638.2	7654.1	7647.5
7.5°	7236.2	7225.7	7209.8	7245.9	7279.7
10°	6547.9	6536.2	6501.7	6518.7	6546.3
12.5°	5531.6	5494.0	5493.2	5547.5	5540.1
15°	4190.2	4139.8	4167.7	4154.1	4146.8
17.5°	2817.8	2798.4	2835.6	2824.4	2775.9
20°	2027.0	2032.1	2103.1	2067.4	2024.3
22.5°	1479.1	1497.3	1581.6	1489.6	1455.9
25°	984.8	1022.0	1110.5	996.1	964.6
27.5°	605.7	622.8	712.4	597.9	580.9
30°	376.8	368.2	410.5	352.3	328.2
32.5°	247.2	236.3	249.9	224.3	204.9
35°	165.3	168.8	158.3	157.2	132.7
37.5°	103.2	118.7	104.8	111.7	85.4
40°	66.7	86.1	74.1	81.9	62.9
42.5°	54.7	66.3	60.9	64.8	55.9
45°	43.4	53.9	53.9	53.9	43.8
47.5°	24.1	36.1	46.2	36.8	25.6
50°	13.6	18.2	35.7	19.0	14.4
52.5°	9.3	10.5	24.5	10.9	9.7
55°	7.0	7.4	13.2	7.7	7.4
57.5°	5.4	5.8	7.0	5.8	5.4
60°	4.2	4.2	5.0	4.6	4.2
62.5°	3.1	3.1	3.5	3.1	3.1
65°	2.3	2.3	2.3	2.3	2.3
67.5°	1.1	1.5	1.5	1.5	1.5
70°	1.1	0.8	0.8	0.8	1.1
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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