

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: P745052

Luminaire Tested: LD4D25D010-EU4DR3020359027-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745052
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-EU4DR3020359027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2254.8 lumens
Efficiency: N/A
Efficacy: 89.8 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

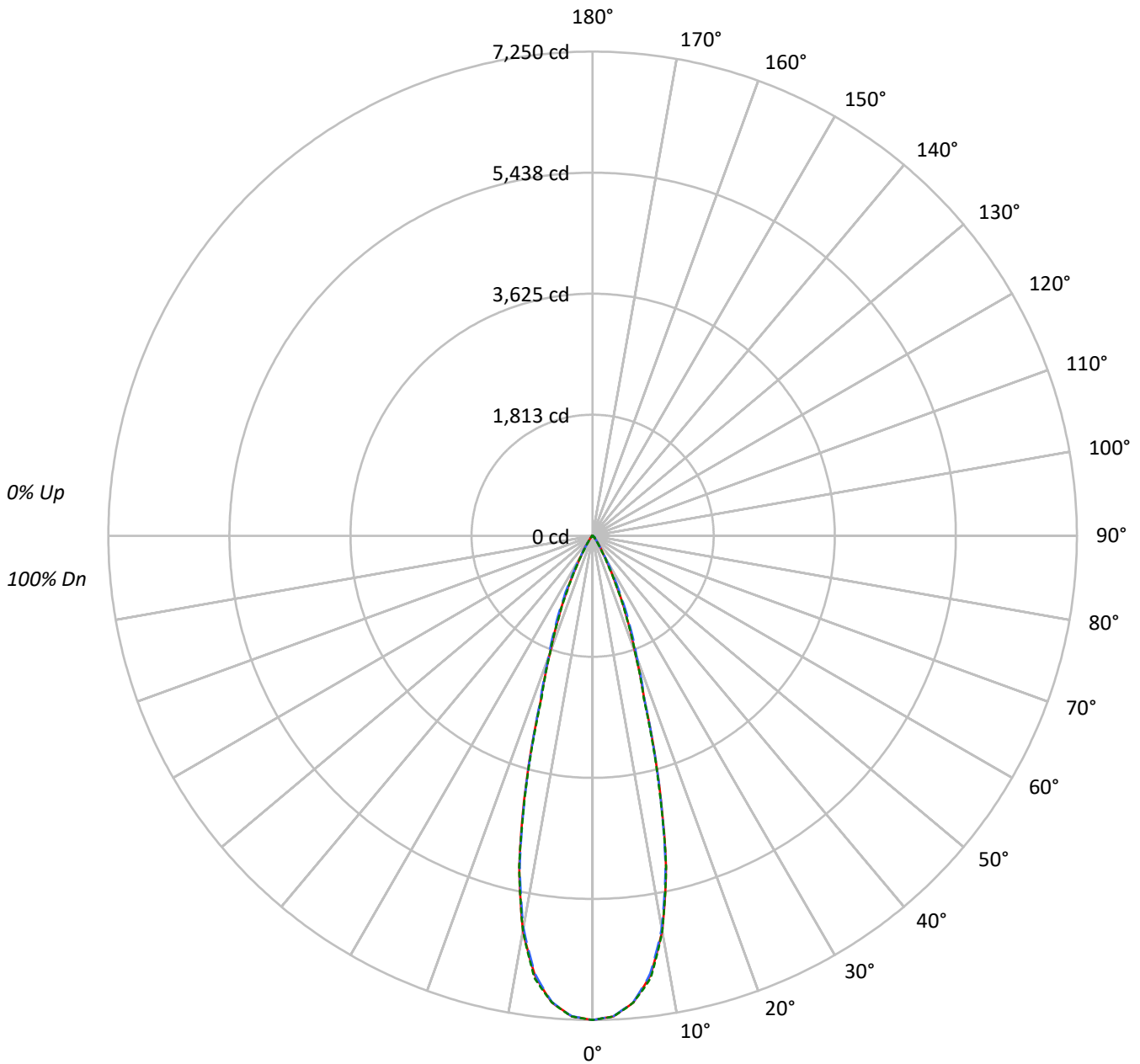


Downlight



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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					70					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°	554963	554963	554963
5°	539034	538404	539064
10°	466882	463594	466773
15°	304620	302980	301458
20°	151475	157161	151272
25°	76298	86044	74735
30°	30555	33286	26613
35°	14175	13568	11381
40°	6115	6795	5755
45°	4319	5358	4352
50°	1477	3906	1572
55°	854	1615	907
60°	597	704	597
65°	380	380	380
70°	246	157	246
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5358 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.6	28.3
10°-20°	1026.8	45.5
20°-30°	443.7	19.7
30°-40°	101.1	4.5
40°-50°	34.7	1.5
50°-60°	8.5	0.4
60°-70°	2.2	0.1
70°-80°	0.2	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°	2108.0	93.5
0°-40°	2209.2	98.0
0°-60°	2252.4	99.9
0°-90°	2254.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2254.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7250	7250	7250	7250	7250	
5°	7015	7009	7007	7022	7016	638
15°	3844	3798	3823	3811	3804	1029
25°	903	938	1019	914	885	432
35°	152	155	145	144	122	103
45°	40	50	50	50	40	28
55°	6	7	12	7	7	6
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°	7250.3	7250.3	7250.3	7250.3	7250.3
2.5°	7202.3	7197.3	7200.2	7203.7	7205.1
5°	7015.4	7008.6	7007.2	7021.8	7015.8
7.5°	6638.4	6628.8	6614.2	6647.3	6678.3
10°	6006.9	5996.3	5964.6	5980.2	6005.5
12.5°	5074.7	5040.1	5039.4	5089.2	5082.5
15°	3844.1	3797.8	3823.4	3811.0	3804.2
17.5°	2585.0	2567.2	2601.4	2591.1	2546.6
20°	1859.6	1864.2	1929.4	1896.6	1857.1
22.5°	1356.9	1373.6	1450.9	1366.5	1335.6
25°	903.4	937.6	1018.8	913.7	884.9
27.5°	555.6	571.3	653.6	548.5	532.9
30°	345.7	337.8	376.6	323.2	301.1
32.5°	226.8	216.8	229.2	205.7	187.9
35°	151.7	154.9	145.2	144.2	121.8
37.5°	94.7	108.9	96.1	102.5	78.3
40°	61.2	79.0	68.0	75.1	57.6
42.5°	50.2	60.8	55.9	59.5	51.3
45°	39.9	49.5	49.5	49.5	40.2
47.5°	22.1	33.1	42.3	33.8	23.5
50°	12.4	16.7	32.8	17.4	13.2
52.5°	8.5	9.6	22.4	10.0	8.9
55°	6.4	6.8	12.1	7.1	6.8
57.5°	5.0	5.3	6.4	5.3	5.0
60°	3.9	3.9	4.6	4.3	3.9
62.5°	2.9	2.9	3.2	2.9	2.9
65°	2.1	2.1	2.1	2.1	2.1
67.5°	1.1	1.4	1.4	1.4	1.4
70°	1.1	0.7	0.7	0.7	1.1
72.5°	0.7	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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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