

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: P745100

Luminaire Tested: LD4D25D010-EU4DR3020359050-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745100
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-EU4DR3020359050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2225.3 lumens
Efficiency: N/A
Efficacy: 88.7 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 (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

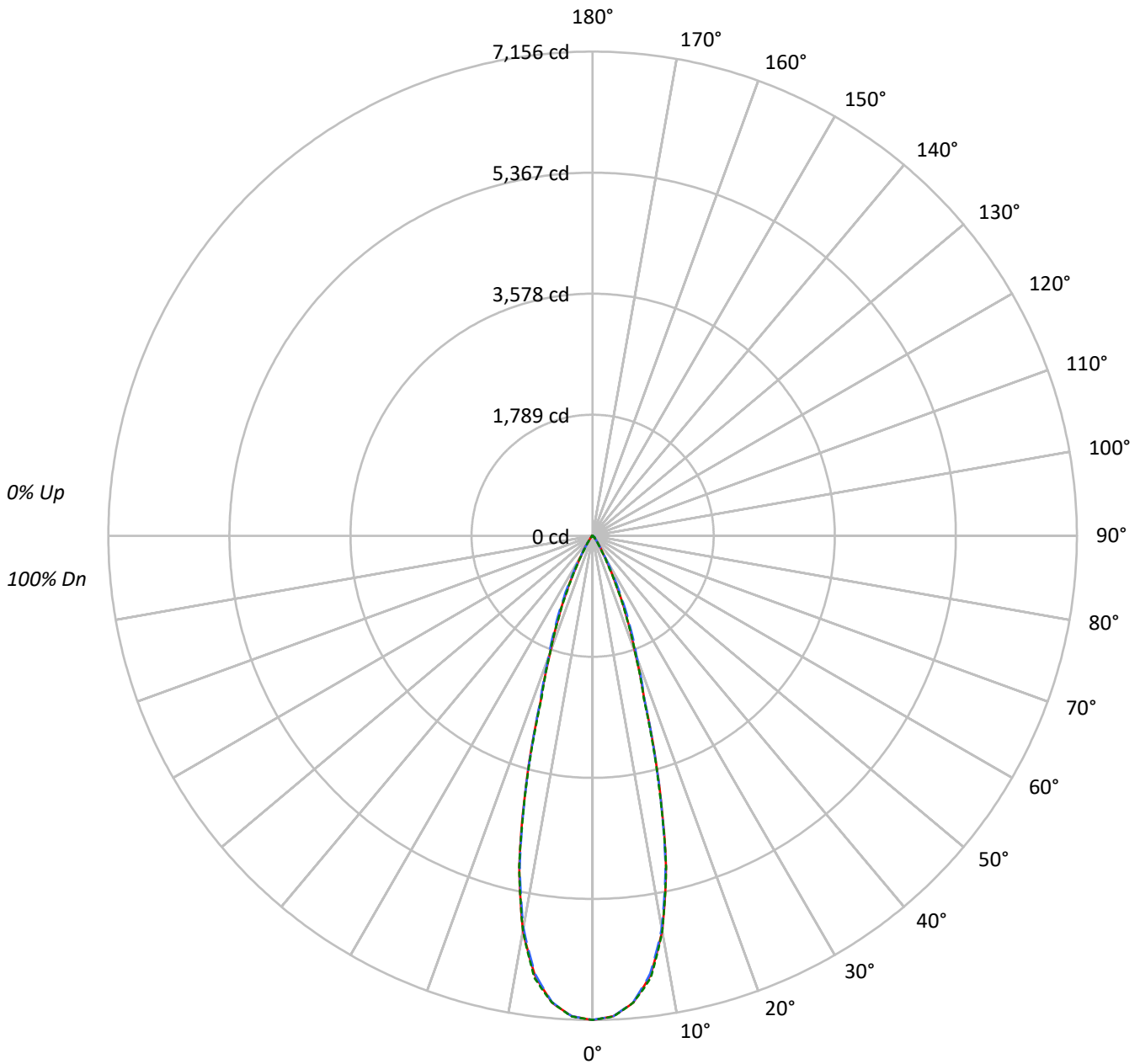


Downlight



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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	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	87	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°	547706	547706	547706
5°	531980	531358	532003
10°	460772	457524	460664
15°	300634	299018	297512
20°	149488	155100	149292
25°	75301	84921	73756
30°	30148	32853	26268
35°	13988	13400	11222
40°	6035	6705	5685
45°	4265	5283	4297
50°	1465	3846	1548
55°	841	1588	881
60°	582	704	582
65°	380	380	380
70°	224	157	224
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5283 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.2	28.3
10°-20°	1013.4	45.5
20°-30°	437.9	19.7
30°-40°	99.8	4.5
40°-50°	34.3	1.5
50°-60°	8.4	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°	2080.5	93.5
0°-40°	2180.3	98.0
0°-60°	2222.9	99.9
0°-90°	2225.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2225.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7156	7156	7156	7156	7156	
5°	6924	6917	6916	6930	6924	630
15°	3794	3748	3773	3761	3754	1016
25°	892	925	1006	902	873	427
35°	150	153	143	142	120	102
45°	39	49	49	49	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°	7155.5	7155.5	7155.5	7155.5	7155.5
2.5°	7108.0	7103.1	7105.9	7109.4	7110.8
5°	6923.6	6916.9	6915.5	6929.9	6923.9
7.5°	6551.6	6542.1	6527.7	6560.3	6590.9
10°	5928.3	5917.8	5886.5	5902.0	5926.9
12.5°	5008.3	4974.2	4973.5	5022.7	5016.0
15°	3793.8	3748.1	3773.4	3761.1	3754.4
17.5°	2551.2	2533.6	2567.3	2557.2	2513.2
20°	1835.2	1839.8	1904.1	1871.8	1832.8
22.5°	1339.2	1355.7	1431.9	1348.7	1318.1
25°	891.6	925.4	1005.5	901.8	873.3
27.5°	548.4	563.8	645.0	541.4	525.9
30°	341.1	333.4	371.7	319.0	297.2
32.5°	223.8	213.9	226.3	203.1	185.5
35°	149.7	152.8	143.4	142.3	120.1
37.5°	93.4	107.5	94.9	101.2	77.3
40°	60.4	78.0	67.1	74.1	56.9
42.5°	49.6	60.0	55.2	58.7	50.6
45°	39.4	48.8	48.8	48.8	39.7
47.5°	21.8	32.7	41.8	33.3	23.2
50°	12.3	16.5	32.3	17.2	13.0
52.5°	8.4	9.5	22.1	9.9	8.8
55°	6.3	6.6	11.9	7.0	6.6
57.5°	4.9	5.3	6.3	5.3	4.9
60°	3.8	3.8	4.6	4.2	3.8
62.5°	2.8	2.8	3.2	2.8	2.8
65°	2.1	2.1	2.1	2.1	2.1
67.5°	1.0	1.4	1.4	1.4	1.4
70°	1.0	0.7	0.7	0.7	1.0
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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