

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: P745087

Luminaire Tested: LD4D25D010-EU4DR3020359040-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745087
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-EU4DR3020359040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2251.8 lumens
Efficiency: N/A
Efficacy: 89.7 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 (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



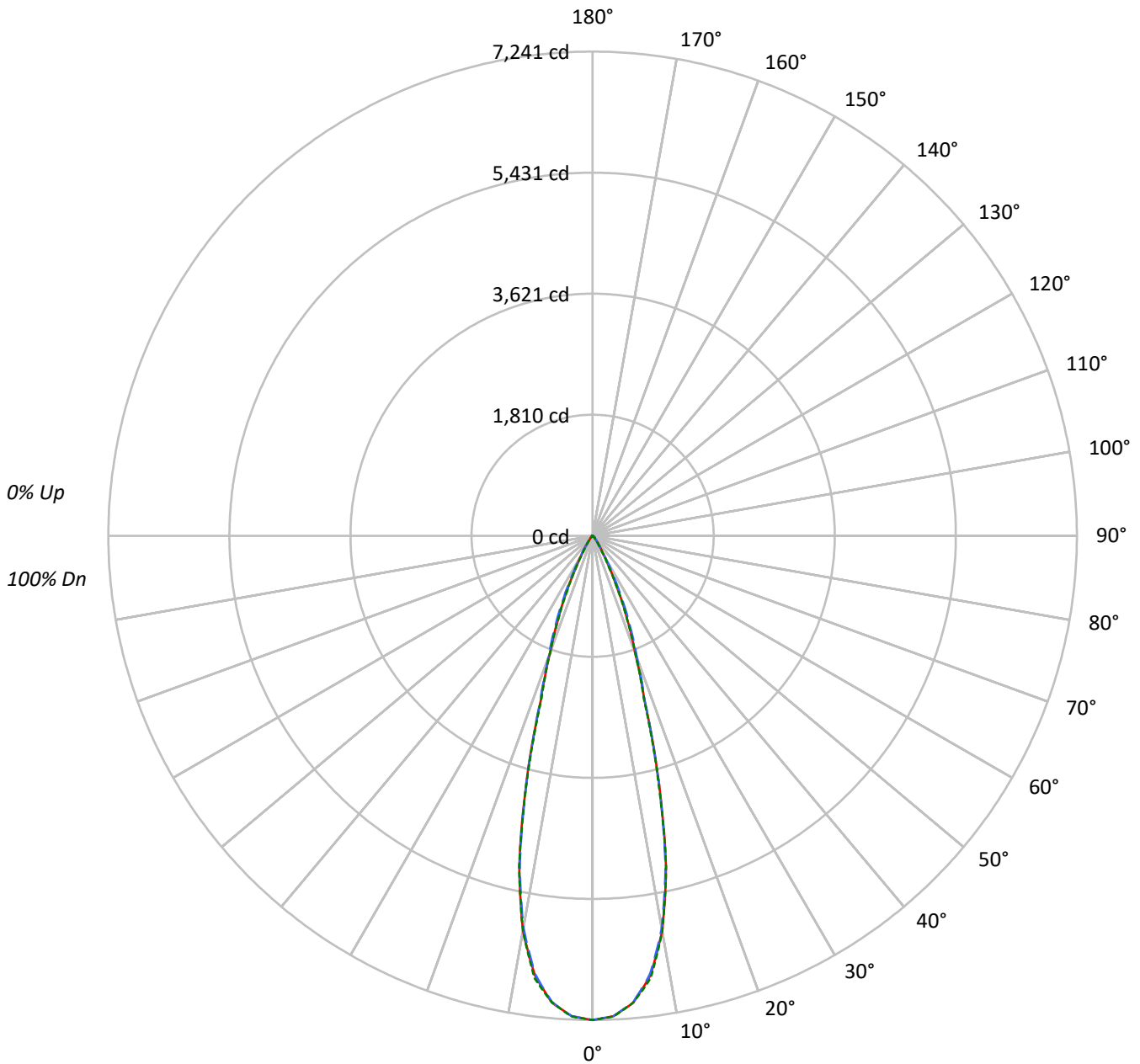
Downlight



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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	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°	554235	554235	554235
5°	538327	537697	538358
10°	466275	462980	466159
15°	304224	302584	301062
20°	151280	156949	151068
25°	76205	85926	74642
30°	30510	33241	26577
35°	14147	13558	11363
40°	6105	6785	5755
45°	4308	5347	4352
50°	1477	3894	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: 5347 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.7	28.3
10°-20°	1025.4	45.5
20°-30°	443.1	19.7
30°-40°	101.0	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°	2105.3	93.5
0°-40°	2206.3	98.0
0°-60°	2249.4	99.9
0°-90°	2251.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2251.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7241	7241	7241	7241	7241	
5°	7006	7000	6998	7013	7007	637
15°	3839	3793	3818	3806	3799	1028
25°	902	936	1017	913	884	432
35°	151	155	145	144	122	103
45°	40	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7240.8	7240.8	7240.8	7240.8	7240.8
2.5°	7192.8	7187.8	7190.7	7194.3	7195.7
5°	7006.2	6999.5	6998.0	7012.6	7006.6
7.5°	6629.7	6620.1	6605.5	6638.6	6669.5
10°	5999.1	5988.4	5956.7	5972.4	5997.6
12.5°	5068.0	5033.5	5032.8	5082.6	5075.8
15°	3839.1	3792.8	3818.4	3806.0	3799.2
17.5°	2581.7	2563.9	2598.0	2587.7	2543.3
20°	1857.2	1861.7	1926.8	1894.1	1854.6
22.5°	1355.1	1371.9	1449.0	1364.8	1333.8
25°	902.3	936.4	1017.4	912.6	883.8
27.5°	555.0	570.6	652.7	547.8	532.2
30°	345.2	337.4	376.1	322.8	300.7
32.5°	226.4	216.5	229.0	205.5	187.7
35°	151.4	154.6	145.1	144.0	121.6
37.5°	94.5	108.8	96.0	102.4	78.2
40°	61.1	78.9	67.9	75.0	57.6
42.5°	50.1	60.8	55.8	59.4	51.2
45°	39.8	49.4	49.4	49.4	40.2
47.5°	22.1	33.1	42.3	33.7	23.5
50°	12.4	16.7	32.7	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	4.2	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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