

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: P746790

Luminaire Tested: LD4D35BD010-EU4DR3020359035-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746790
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: LD4D35BD010-EU4DR3020359035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 2813.1 lumens
Efficiency: N/A
Efficacy: 91.3 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): 30.8
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

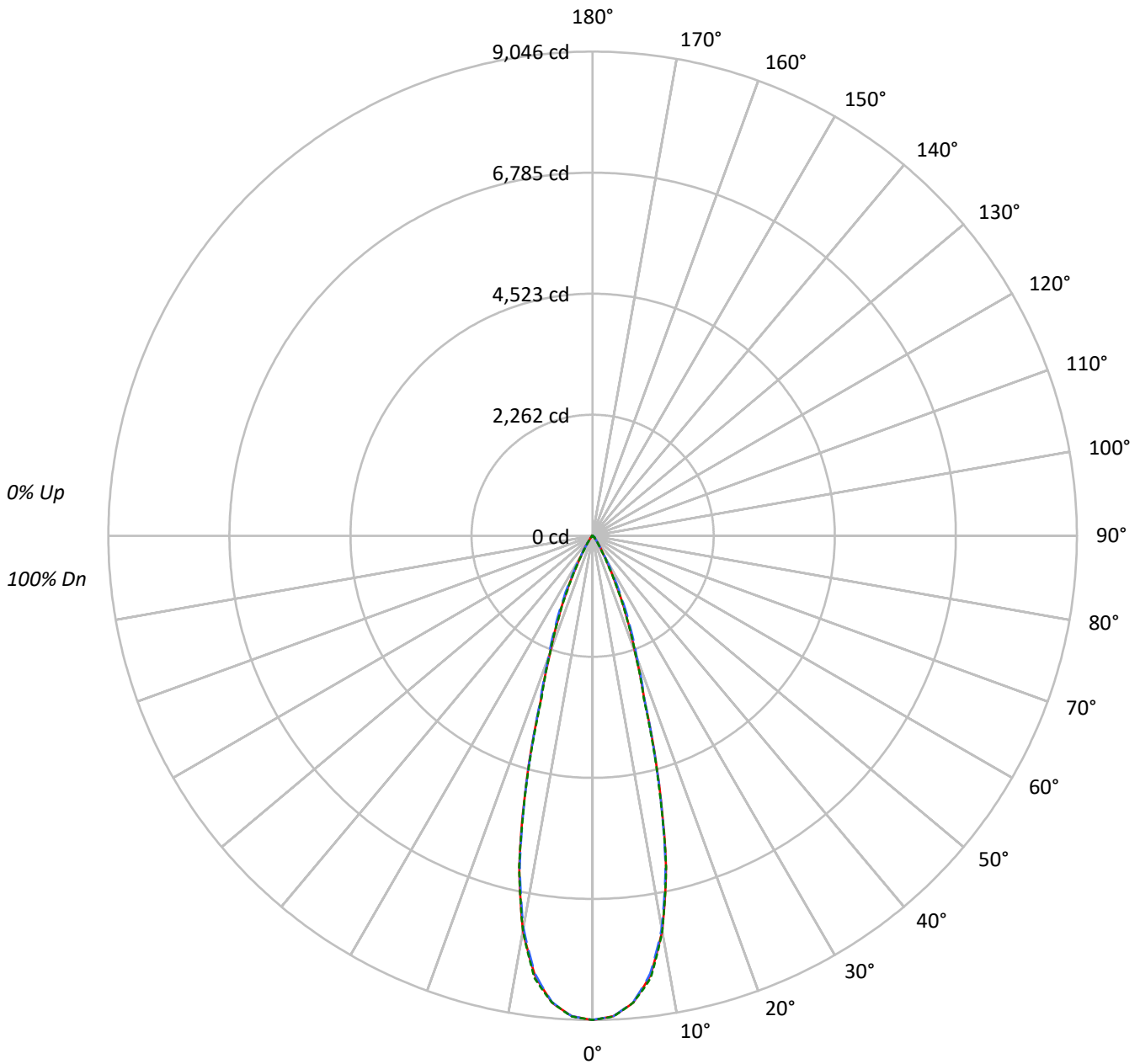


Downlight

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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°	692373	692373	692373
5°	672497	671714	672536
10°	582488	578377	582349
15°	380044	378000	376098
20°	188977	196064	188725
25°	95191	107344	93240
30°	38111	41532	33206
35°	17679	16932	14194
40°	7634	8473	7184
45°	5380	6679	5434
50°	1846	4870	1953
55°	1068	2015	1121
60°	750	888	750
65°	489	489	489
70°	291	201	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: 6679 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	795.4	28.3
10°-20°	1281.0	45.5
20°-30°	553.6	19.7
30°-40°	126.2	4.5
40°-50°	43.3	1.5
50°-60°	10.6	0.4
60°-70°	2.8	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°	2630.0	93.5
0°-40°	2756.2	98.0
0°-60°	2810.1	99.9
0°-90°	2813.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2813.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9046	9046	9046	9046	9046	
5°	8752	8744	8742	8760	8753	796
15°	4796	4738	4770	4755	4746	1284
25°	1127	1170	1271	1140	1104	540
35°	189	193	181	180	152	128
45°	50	62	62	62	50	35
55°	8	8	15	9	8	8
65°	3	3	3	3	3	3
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°	9045.5	9045.5	9045.5	9045.5	9045.5
2.5°	8985.6	8979.4	8982.9	8987.4	8989.1
5°	8752.4	8744.0	8742.2	8760.4	8752.9
7.5°	8282.1	8270.1	8251.9	8293.2	8331.9
10°	7494.3	7480.9	7441.4	7461.0	7492.5
12.5°	6331.2	6288.1	6287.2	6349.4	6340.9
15°	4795.9	4738.2	4770.1	4754.6	4746.1
17.5°	3225.1	3202.9	3245.5	3232.6	3177.1
20°	2320.0	2325.8	2407.0	2366.2	2316.9
22.5°	1692.9	1713.8	1810.2	1704.9	1666.3
25°	1127.1	1169.8	1271.0	1140.0	1104.0
27.5°	693.2	712.8	815.4	684.4	664.8
30°	431.2	421.5	469.9	403.2	375.7
32.5°	282.9	270.5	286.0	256.7	234.5
35°	189.2	193.2	181.2	179.9	151.9
37.5°	118.1	135.9	119.9	127.9	97.7
40°	76.4	98.6	84.8	93.7	71.9
42.5°	62.6	75.9	69.7	74.2	64.0
45°	49.7	61.7	61.7	61.7	50.2
47.5°	27.5	41.3	52.8	42.2	29.3
50°	15.5	20.9	40.9	21.8	16.4
52.5°	10.7	12.0	28.0	12.4	11.1
55°	8.0	8.4	15.1	8.9	8.4
57.5°	6.2	6.7	8.0	6.7	6.2
60°	4.9	4.9	5.8	5.3	4.9
62.5°	3.6	3.6	4.0	3.6	3.6
65°	2.7	2.7	2.7	2.7	2.7
67.5°	1.3	1.8	1.8	1.8	1.8
70°	1.3	0.9	0.9	0.9	1.3
72.5°	0.9	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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