

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: P746816

Luminaire Tested: LD4D35BD010-EU4DR3020359050-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746816
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-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: 2965.6 lumens
Efficiency: N/A
Efficacy: 96.3 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

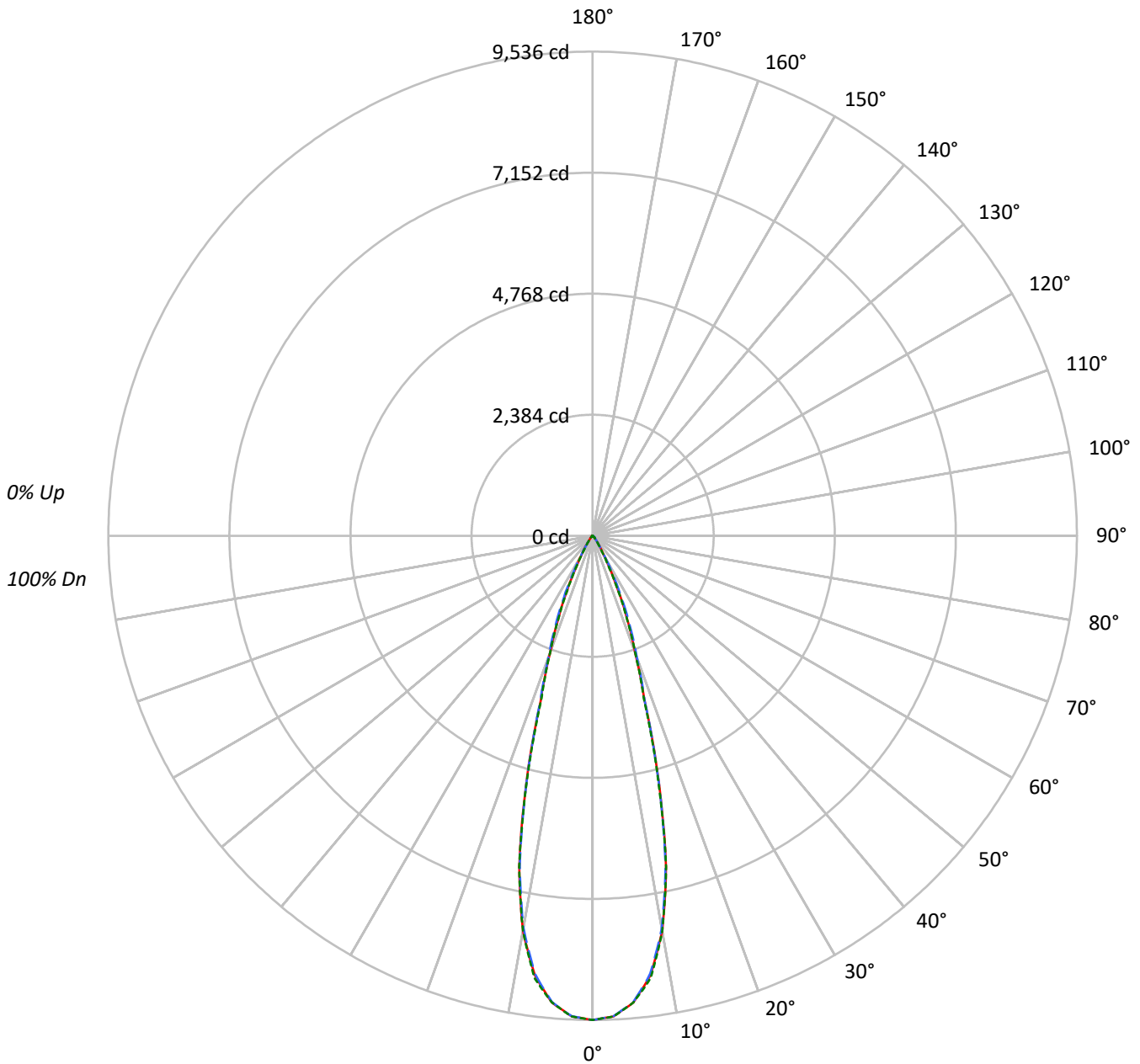


Downlight

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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									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°	729925	729925	729925
5°	708971	708142	709002
10°	614076	609746	613928
15°	400655	398500	396495
20°	199225	206702	198956
25°	100359	113171	98299
30°	40180	43777	35009
35°	18632	17847	14960
40°	8044	8933	7574
45°	5672	7047	5726
50°	1953	5132	2060
55°	1121	2122	1188
60°	796	934	796
65°	507	507	507
70°	313	201	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7047 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	838.6	28.3
10°-20°	1350.5	45.5
20°-30°	583.6	19.7
30°-40°	133.0	4.5
40°-50°	45.7	1.5
50°-60°	11.2	0.4
60°-70°	2.9	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°	2772.6	93.5
0°-40°	2905.6	98.0
0°-60°	2962.5	99.9
0°-90°	2965.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2965.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9536	9536	9536	9536	9536	
5°	9227	9218	9216	9236	9228	839
15°	5056	4995	5029	5012	5004	1354
25°	1188	1233	1340	1202	1164	569
35°	199	204	191	190	160	135
45°	52	65	65	65	53	37
55°	8	9	16	9	9	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°	9536.1	9536.1	9536.1	9536.1	9536.1
2.5°	9472.9	9466.3	9470.0	9474.7	9476.6
5°	9227.1	9218.2	9216.3	9235.5	9227.5
7.5°	8731.2	8718.6	8699.4	8742.9	8783.7
10°	7900.7	7886.6	7845.0	7865.6	7898.8
12.5°	6674.5	6629.1	6628.1	6693.7	6684.8
15°	5056.0	4995.1	5028.8	5012.4	5003.5
17.5°	3400.0	3376.6	3421.5	3407.9	3349.4
20°	2445.8	2451.9	2537.6	2494.5	2442.5
22.5°	1784.7	1806.7	1908.3	1797.4	1756.6
25°	1188.3	1233.2	1340.0	1201.8	1163.9
27.5°	730.8	751.4	859.6	721.5	700.9
30°	454.6	444.3	495.3	425.1	396.1
32.5°	298.2	285.1	301.5	270.6	247.2
35°	199.4	203.7	191.0	189.6	160.1
37.5°	124.5	143.3	126.4	134.8	103.0
40°	80.5	103.9	89.4	98.8	75.8
42.5°	66.0	80.1	73.5	78.2	67.4
45°	52.4	65.1	65.1	65.1	52.9
47.5°	29.0	43.5	55.7	44.5	30.9
50°	16.4	22.0	43.1	22.9	17.3
52.5°	11.2	12.6	29.5	13.1	11.7
55°	8.4	8.9	15.9	9.4	8.9
57.5°	6.6	7.0	8.4	7.0	6.6
60°	5.2	5.2	6.1	5.6	5.2
62.5°	3.7	3.7	4.2	3.7	3.7
65°	2.8	2.8	2.8	2.8	2.8
67.5°	1.4	1.9	1.9	1.9	1.9
70°	1.4	0.9	0.9	0.9	1.4
72.5°	0.9	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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