

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: P746781

Luminaire Tested: LD4D35BD010-EU4DR3020359030-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746781
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-EU4DR3020359030-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3122.5 lumens
Efficiency: N/A
Efficacy: 101.4 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

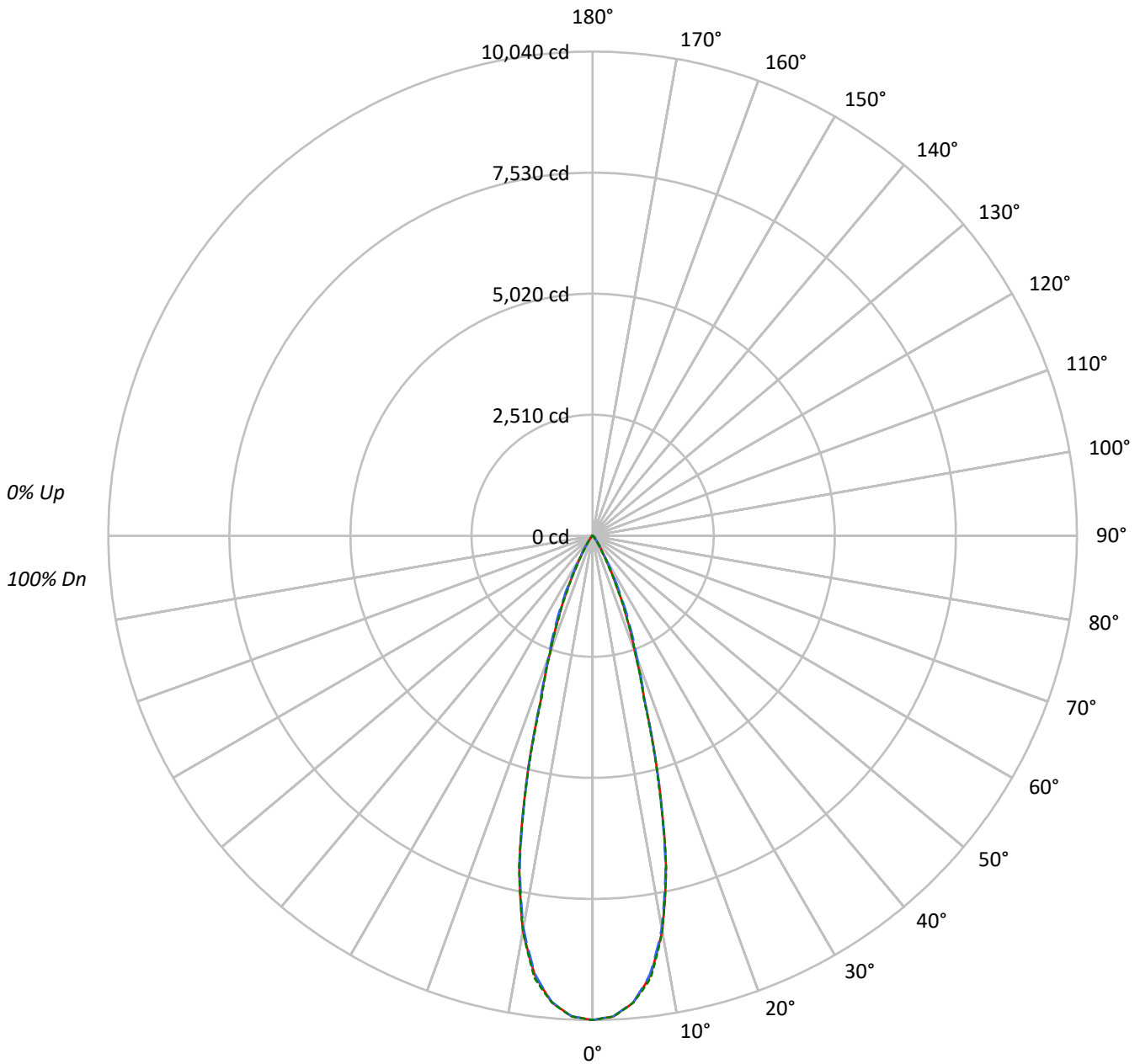


Downlight

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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	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°	768511	768511	768511
5°	746452	745576	746490
10°	646541	641979	646386
15°	421837	419571	417463
20°	209757	217625	209480
25°	105663	119151	103501
30°	42301	46093	36856
35°	19623	18791	15754
40°	8473	9412	7984
45°	5975	7415	6029
50°	2060	5406	2167
55°	1188	2242	1254
60°	827	980	827
65°	543	543	543
70°	336	224	336
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7415 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	882.9	28.3
10°-20°	1421.9	45.5
20°-30°	614.4	19.7
30°-40°	140.0	4.5
40°-50°	48.1	1.5
50°-60°	11.8	0.4
60°-70°	3.1	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°	2919.2	93.5
0°-40°	3059.3	98.0
0°-60°	3119.1	99.9
0°-90°	3122.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3122.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10040	10040	10040	10040	10040	
5°	9715	9706	9704	9724	9715	884
15°	5323	5259	5295	5277	5268	1425
25°	1251	1298	1411	1265	1226	599
35°	210	214	201	200	169	142
45°	55	68	68	68	56	39
55°	9	9	17	10	9	9
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°	10040.2	10040.2	10040.2	10040.2	10040.2
2.5°	9973.7	9966.8	9970.7	9975.6	9977.6
5°	9714.9	9705.5	9703.5	9723.8	9715.4
7.5°	9192.9	9179.5	9159.3	9205.2	9248.1
10°	8318.4	8303.6	8259.7	8281.4	8316.4
12.5°	7027.4	6979.5	6978.6	7047.6	7038.2
15°	5323.3	5259.2	5294.7	5277.4	5268.1
17.5°	3579.7	3555.1	3602.4	3588.1	3526.5
20°	2575.1	2581.5	2671.7	2626.4	2571.7
22.5°	1879.1	1902.3	2009.2	1892.4	1849.5
25°	1251.1	1298.4	1410.8	1265.4	1225.5
27.5°	769.5	791.2	905.0	759.6	737.9
30°	478.6	467.8	521.5	447.6	417.0
32.5°	314.0	300.2	317.5	284.9	260.3
35°	210.0	214.4	201.1	199.6	168.6
37.5°	131.1	150.8	133.1	142.0	108.4
40°	84.8	109.4	94.2	104.0	79.9
42.5°	69.5	84.3	77.4	82.3	71.0
45°	55.2	68.5	68.5	68.5	55.7
47.5°	30.6	45.8	58.7	46.8	32.5
50°	17.3	23.2	45.4	24.2	18.2
52.5°	11.8	13.3	31.1	13.8	12.3
55°	8.9	9.4	16.8	9.9	9.4
57.5°	6.9	7.4	8.9	7.4	6.9
60°	5.4	5.4	6.4	5.9	5.4
62.5°	3.9	3.9	4.4	3.9	3.9
65°	3.0	3.0	3.0	3.0	3.0
67.5°	1.5	2.0	2.0	2.0	2.0
70°	1.5	1.0	1.0	1.0	1.5
72.5°	1.0	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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