

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: P781006

Luminaire Tested: LER4D35BD010-EC4DR3020359040-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781006
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: LER4D35BD010-EC4DR3020359040-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3648.4 lumens
Efficiency: N/A
Efficacy: 118.5 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 (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

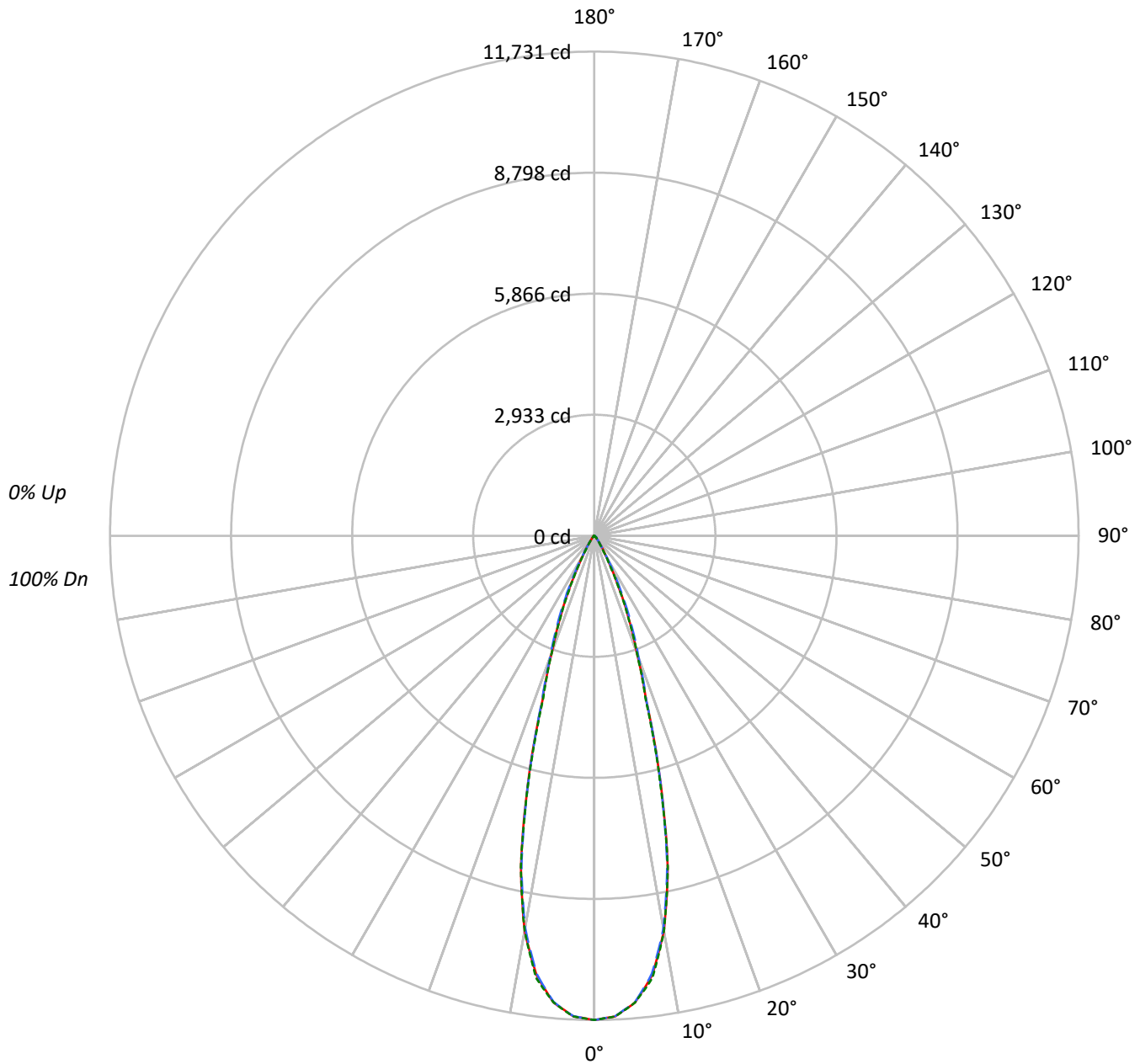


Downlight

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	109	112	110	109	107	106	105	104		103	102	101		99
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		97
3	107	102	98	95	105	101	97	94	98	95	93		96	93	91		94
4	103	98	93	90	102	96	93	90	94	91	89		93	90	88		91
5	100	94	89	86	98	93	89	86	91	88	85		90	86	84		88
6	97	90	85	82	95	89	85	82	88	84	81		87	83	81		85
7	94	87	82	79	92	86	82	79	85	81	78		84	81	78		83
8	91	84	79	76	90	83	79	76	82	78	76		81	78	75		80
9	88	81	76	73	87	80	76	73	80	76	73		79	75	73		78
10	85	78	74	71	85	78	74	71	77	73	71		76	73	71		76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	897961	897961	897961
5°	872186	871164	872232
10°	755448	750116	755269
15°	492887	490240	487776
20°	245092	254289	244766
25°	123458	139218	120933
30°	49434	53862	43070
35°	22931	21959	18408
40°	9902	10991	9323
45°	6982	8671	7047
50°	2405	6311	2536
55°	1388	2616	1455
60°	964	1148	964
65°	634	634	634
70°	380	269	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 8671 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1031.6	28.3
10°-20°	1661.4	45.5
20°-30°	717.9	19.7
30°-40°	163.6	4.5
40°-50°	56.2	1.5
50°-60°	13.7	0.4
60°-70°	3.6	0.1
70°-80°	0.4	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°	3410.9	93.5
0°-40°	3574.6	98.0
0°-60°	3644.5	99.9
0°-90°	3648.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3648.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11731	11731	11731	11731	11731	
5°	11351	11340	11338	11362	11352	1032
15°	6220	6145	6186	6166	6155	1665
25°	1462	1517	1648	1478	1432	700
35°	245	250	235	233	197	166
45°	64	80	80	80	65	46
55°	10	11	20	12	11	10
65°	4	4	4	4	4	3
75°	0	0	1	0	0	1
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°	11731.4	11731.4	11731.4	11731.4	11731.4
2.5°	11653.7	11645.6	11650.2	11656.0	11658.3
5°	11351.3	11340.4	11338.0	11361.7	11351.9
7.5°	10741.3	10725.8	10702.2	10755.7	10805.8
10°	9719.6	9702.3	9651.0	9676.4	9717.3
12.5°	8211.1	8155.2	8154.1	8234.7	8223.8
15°	6219.9	6145.1	6186.5	6166.4	6155.4
17.5°	4182.7	4153.9	4209.2	4192.5	4120.5
20°	3008.9	3016.4	3121.8	3068.8	3004.9
22.5°	2195.6	2222.7	2347.7	2211.2	2161.1
25°	1461.8	1517.1	1648.4	1478.5	1431.9
27.5°	899.1	924.4	1057.5	887.6	862.2
30°	559.3	546.6	609.4	523.0	487.3
32.5°	366.9	350.8	370.9	332.9	304.1
35°	245.4	250.5	235.0	233.3	197.0
37.5°	153.2	176.2	155.5	165.9	126.7
40°	99.1	127.9	110.0	121.5	93.3
42.5°	81.2	98.5	90.4	96.2	82.9
45°	64.5	80.1	80.1	80.1	65.1
47.5°	35.7	53.6	68.5	54.7	38.0
50°	20.2	27.1	53.0	28.2	21.3
52.5°	13.8	15.6	36.3	16.1	14.4
55°	10.4	10.9	19.6	11.5	10.9
57.5°	8.1	8.6	10.4	8.6	8.1
60°	6.3	6.3	7.5	6.9	6.3
62.5°	4.6	4.6	5.2	4.6	4.6
65°	3.5	3.5	3.5	3.5	3.5
67.5°	1.7	2.3	2.3	2.3	2.3
70°	1.7	1.2	1.2	1.2	1.7
72.5°	1.2	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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



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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)