

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: P784418

Luminaire Tested: LER4DD35BD010-EC4DR3020359050-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P784418
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: LER4DD35BD010-EC4DR3020359050-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3490.8 lumens
Efficiency: N/A
Efficacy: 113.3 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 (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

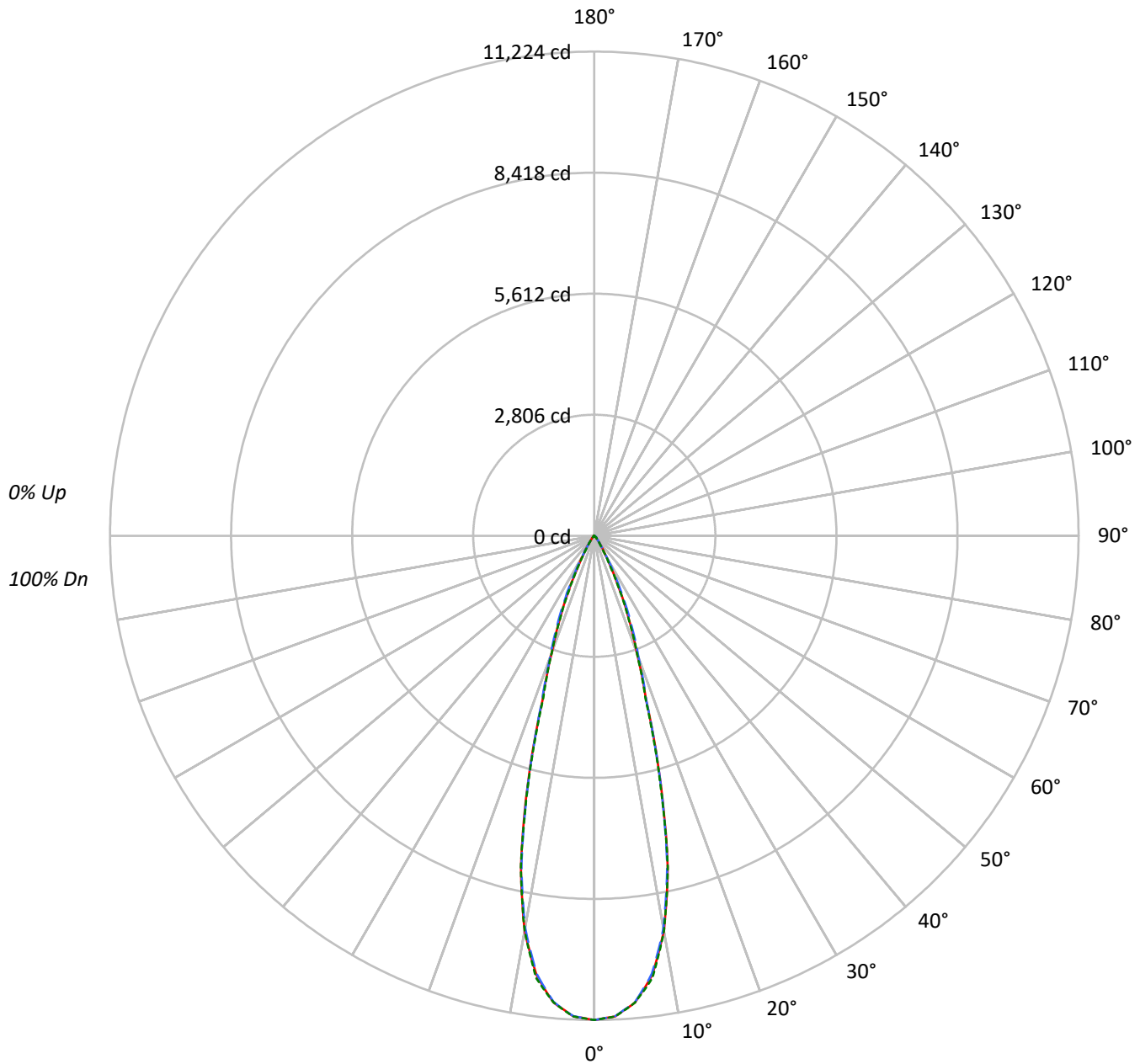


Downlight

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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°	859161	859161	859161
5°	834498	833522	834536
10°	722796	717705	722625
15°	471594	469058	466697
20°	234503	243300	234185
25°	118129	133204	115705
30°	47295	51528	41205
35°	21940	21006	17614
40°	9472	10522	8923
45°	6679	8292	6744
50°	2298	6037	2429
55°	1321	2496	1401
60°	934	1102	934
65°	598	598	598
70°	380	246	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: 8292 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	987.0	28.3
10°-20°	1589.6	45.5
20°-30°	686.9	19.7
30°-40°	156.6	4.5
40°-50°	53.8	1.5
50°-60°	13.1	0.4
60°-70°	3.4	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°	3263.5	93.5
0°-40°	3420.1	98.0
0°-60°	3487.0	99.9
0°-90°	3490.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3490.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11224	11224	11224	11224	11224	
5°	10861	10850	10848	10871	10861	988
15°	5951	5880	5919	5900	5889	1594
25°	1399	1452	1577	1415	1370	669
35°	235	240	225	223	188	159
45°	62	77	77	77	62	44
55°	10	10	19	11	10	10
65°	3	3	3	3	3	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°	11224.5	11224.5	11224.5	11224.5	11224.5
2.5°	11150.1	11142.4	11146.8	11152.3	11154.5
5°	10860.8	10850.3	10848.1	10870.7	10861.3
7.5°	10277.2	10262.3	10239.7	10290.9	10338.9
10°	9299.5	9283.0	9234.0	9258.2	9297.3
12.5°	7856.2	7802.8	7801.7	7878.8	7868.4
15°	5951.2	5879.5	5919.2	5899.9	5889.4
17.5°	4002.0	3974.4	4027.3	4011.3	3942.5
20°	2878.9	2886.0	2986.9	2936.2	2875.0
22.5°	2100.7	2126.6	2246.2	2115.6	2067.7
25°	1398.7	1451.6	1577.2	1414.6	1370.0
27.5°	860.2	884.5	1011.8	849.2	825.0
30°	535.1	523.0	583.0	500.4	466.2
32.5°	351.0	335.6	354.9	318.5	291.0
35°	234.8	239.7	224.8	223.2	188.5
37.5°	146.6	168.6	148.8	158.7	121.2
40°	94.8	122.3	105.3	116.3	89.3
42.5°	77.7	94.2	86.5	92.0	79.4
45°	61.7	76.6	76.6	76.6	62.3
47.5°	34.2	51.3	65.6	52.4	36.4
50°	19.3	25.9	50.7	27.0	20.4
52.5°	13.2	14.9	34.7	15.4	13.8
55°	9.9	10.5	18.7	11.0	10.5
57.5°	7.7	8.3	9.9	8.3	7.7
60°	6.1	6.1	7.2	6.6	6.1
62.5°	4.4	4.4	5.0	4.4	4.4
65°	3.3	3.3	3.3	3.3	3.3
67.5°	1.7	2.2	2.2	2.2	2.2
70°	1.7	1.1	1.1	1.1	1.7
72.5°	1.1	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)