

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: P781000

Luminaire Tested: LER4D35BD010-EC4DR3020359035-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781000
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-EC4DR3020359035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3112.3 lumens
Efficiency: N/A
Efficacy: 101.0 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

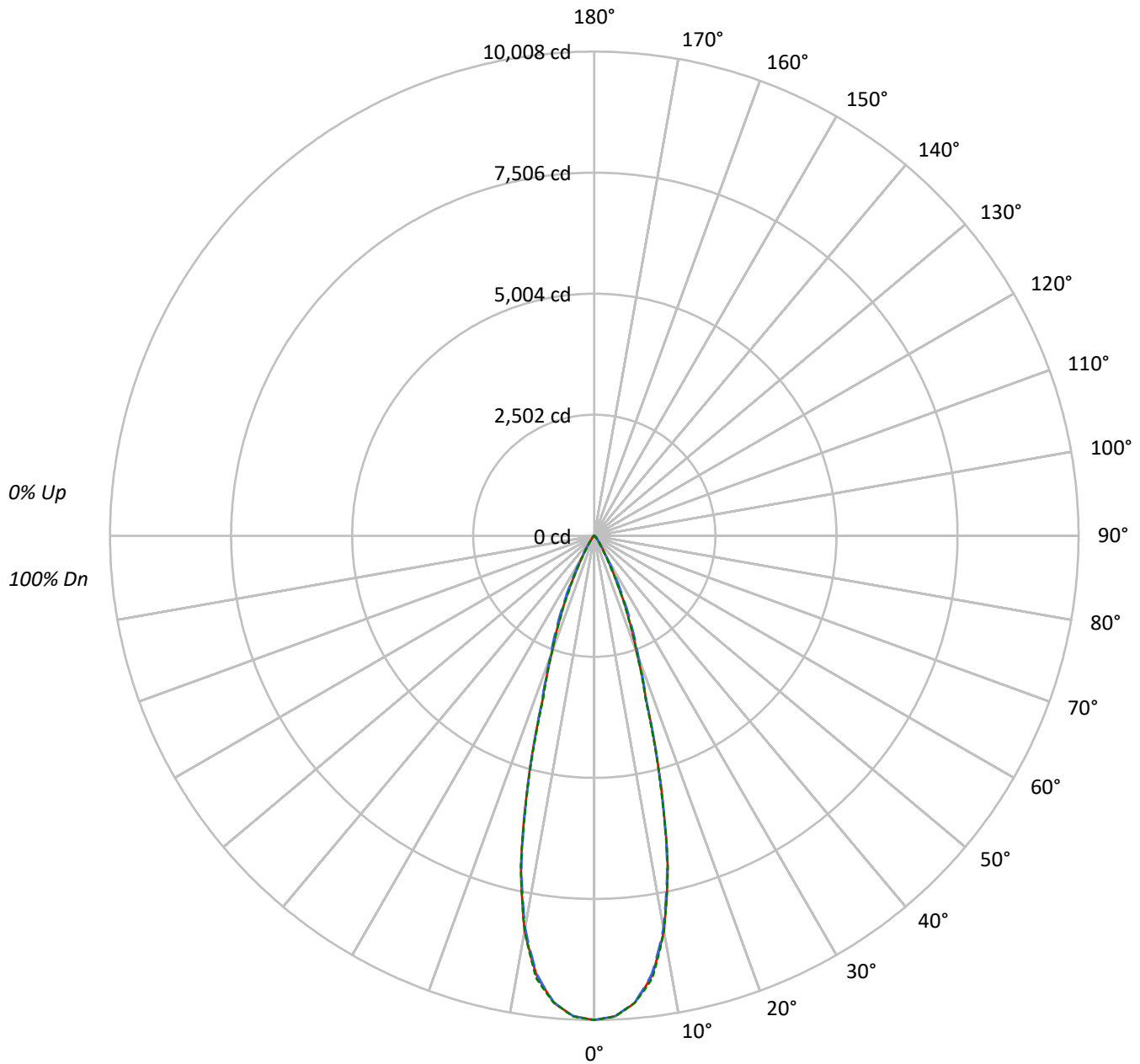


Downlight

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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°	766008	766008	766008
5°	744016	743148	744055
10°	644435	639888	644279
15°	420458	418200	416100
20°	209073	216917	208796
25°	105317	118762	103163
30°	42168	45942	36742
35°	19557	18735	15698
40°	8443	9373	7954
45°	5954	7393	6008
50°	2048	5382	2167
55°	1174	2229	1241
60°	827	980	827
65°	525	525	525
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: 7393 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	880.0	28.3
10°-20°	1417.3	45.5
20°-30°	612.4	19.7
30°-40°	139.6	4.5
40°-50°	47.9	1.5
50°-60°	11.7	0.4
60°-70°	3.0	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°	2909.7	93.5
0°-40°	3049.3	98.0
0°-60°	3108.9	99.9
0°-90°	3112.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3112.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10008	10008	10008	10008	10008	
5°	9683	9674	9672	9692	9684	881
15°	5306	5242	5277	5260	5251	1421
25°	1247	1294	1406	1261	1222	597
35°	209	214	200	199	168	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10007.5	10007.5	10007.5	10007.5	10007.5
2.5°	9941.2	9934.3	9938.2	9943.1	9945.1
5°	9683.2	9673.9	9671.9	9692.1	9683.7
7.5°	9162.9	9149.6	9129.5	9175.2	9217.9
10°	8291.3	8276.5	8232.8	8254.4	8289.3
12.5°	7004.5	6956.8	6955.8	7024.6	7015.3
15°	5305.9	5242.1	5277.4	5260.2	5250.9
17.5°	3568.1	3543.5	3590.7	3576.4	3515.0
20°	2566.7	2573.1	2663.0	2617.8	2563.3
22.5°	1873.0	1896.1	2002.7	1886.2	1843.5
25°	1247.0	1294.2	1406.2	1261.3	1221.5
27.5°	767.0	788.6	902.1	757.1	735.5
30°	477.1	466.3	519.8	446.1	415.7
32.5°	313.0	299.2	316.4	284.0	259.4
35°	209.3	213.7	200.5	199.0	168.0
37.5°	130.7	150.3	132.7	141.5	108.1
40°	84.5	109.1	93.8	103.7	79.6
42.5°	69.3	84.0	77.1	82.1	70.8
45°	55.0	68.3	68.3	68.3	55.5
47.5°	30.5	45.7	58.5	46.7	32.4
50°	17.2	23.1	45.2	24.1	18.2
52.5°	11.8	13.3	31.0	13.8	12.3
55°	8.8	9.3	16.7	9.8	9.3
57.5°	6.9	7.4	8.8	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°	2.9	2.9	2.9	2.9	2.9
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)