

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: P780996

Luminaire Tested: LER4D35BD010-EC4DR3020359030-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780996
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-EC4DR3020359030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3079.8 lumens
Efficiency: N/A
Efficacy: 100.0 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

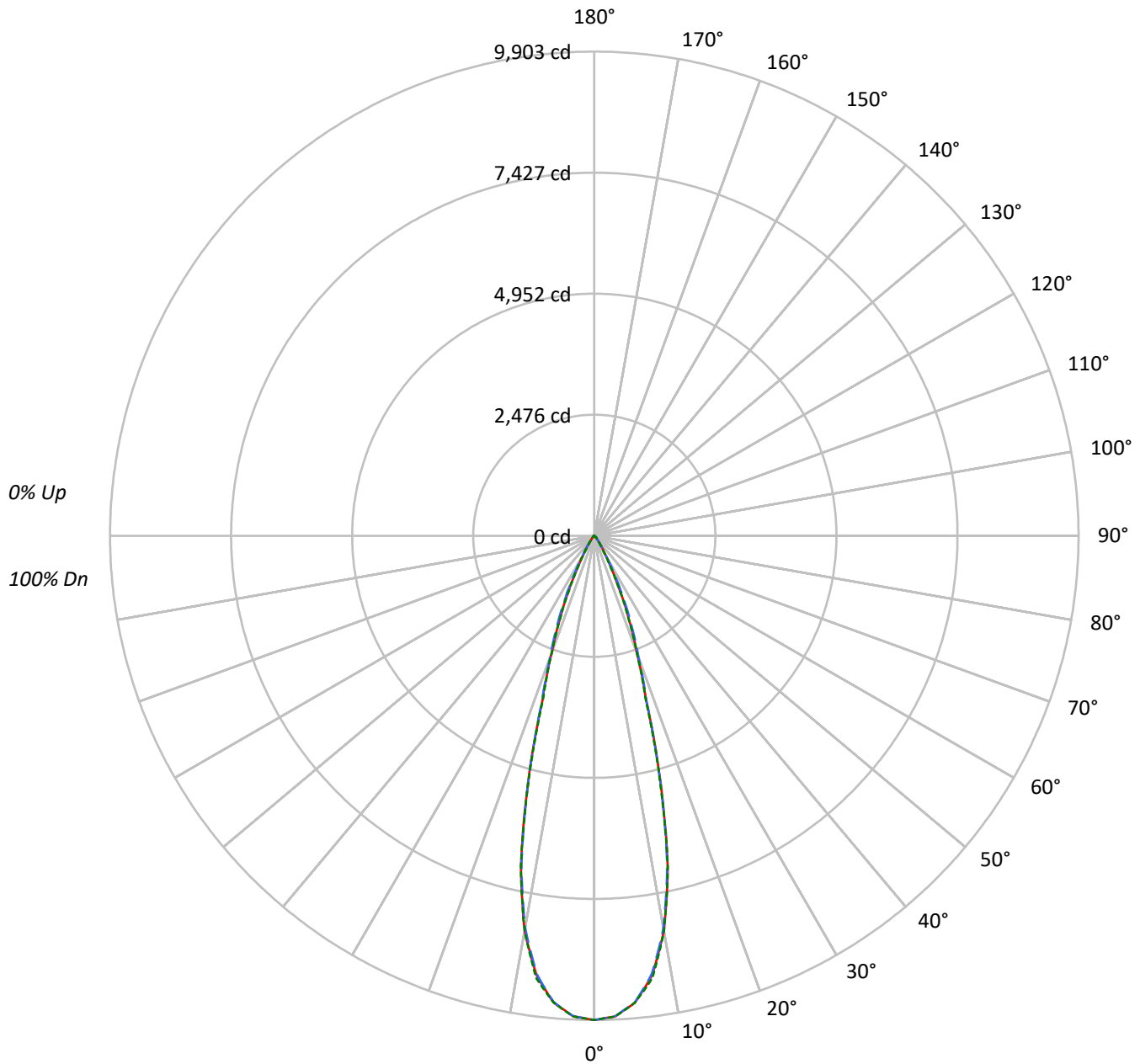


Downlight

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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°	758025	758025	758025
5°	736263	735403	736302
10°	637719	633219	637564
15°	416076	413842	411765
20°	206898	214660	206621
25°	104219	117521	102082
30°	41726	45465	36353
35°	19352	18539	15539
40°	8353	9283	7874
45°	5900	7318	5943
50°	2024	5323	2143
55°	1174	2202	1228
60°	811	964	811
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: 7318 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	870.8	28.3
10°-20°	1402.5	45.5
20°-30°	606.1	19.7
30°-40°	138.1	4.5
40°-50°	47.4	1.5
50°-60°	11.6	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°	2879.4	93.5
0°-40°	3017.5	98.0
0°-60°	3076.5	99.9
0°-90°	3079.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3079.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9903	9903	9903	9903	9903	
5°	9582	9573	9571	9591	9583	872
15°	5251	5187	5222	5205	5196	1406
25°	1234	1281	1392	1248	1209	591
35°	207	212	198	197	166	140
45°	54	68	68	68	55	39
55°	9	9	16	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°	9903.2	9903.2	9903.2	9903.2	9903.2
2.5°	9837.6	9830.7	9834.6	9839.5	9841.4
5°	9582.3	9573.1	9571.1	9591.0	9582.8
7.5°	9067.4	9054.3	9034.3	9079.5	9121.8
10°	8204.9	8190.3	8147.0	8168.4	8202.9
12.5°	6931.5	6884.3	6883.3	6951.4	6942.2
15°	5250.6	5187.4	5222.4	5205.4	5196.2
17.5°	3530.9	3506.6	3553.2	3539.1	3478.4
20°	2540.0	2546.3	2635.3	2590.5	2536.6
22.5°	1853.4	1876.3	1981.8	1866.6	1824.3
25°	1234.0	1280.7	1391.5	1248.1	1208.7
27.5°	759.0	780.4	892.7	749.3	727.9
30°	472.1	461.4	514.4	441.5	411.3
32.5°	309.7	296.1	313.1	281.0	256.7
35°	207.1	211.5	198.4	196.9	166.3
37.5°	129.3	148.8	131.3	140.0	107.0
40°	83.6	107.9	92.9	102.6	78.8
42.5°	68.6	83.1	76.3	81.2	70.0
45°	54.5	67.6	67.6	67.6	54.9
47.5°	30.1	45.2	57.9	46.2	32.1
50°	17.0	22.9	44.7	23.8	18.0
52.5°	11.7	13.1	30.6	13.6	12.2
55°	8.8	9.2	16.5	9.7	9.2
57.5°	6.8	7.3	8.8	7.3	6.8
60°	5.3	5.3	6.3	5.8	5.3
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	1.9	1.9	1.9	1.9
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)