

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: P781004

Luminaire Tested: LER4D35BD010-EC4DR3020359040-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781004
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-EC4DR3020359040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3257.8 lumens
Efficiency: N/A
Efficacy: 105.8 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

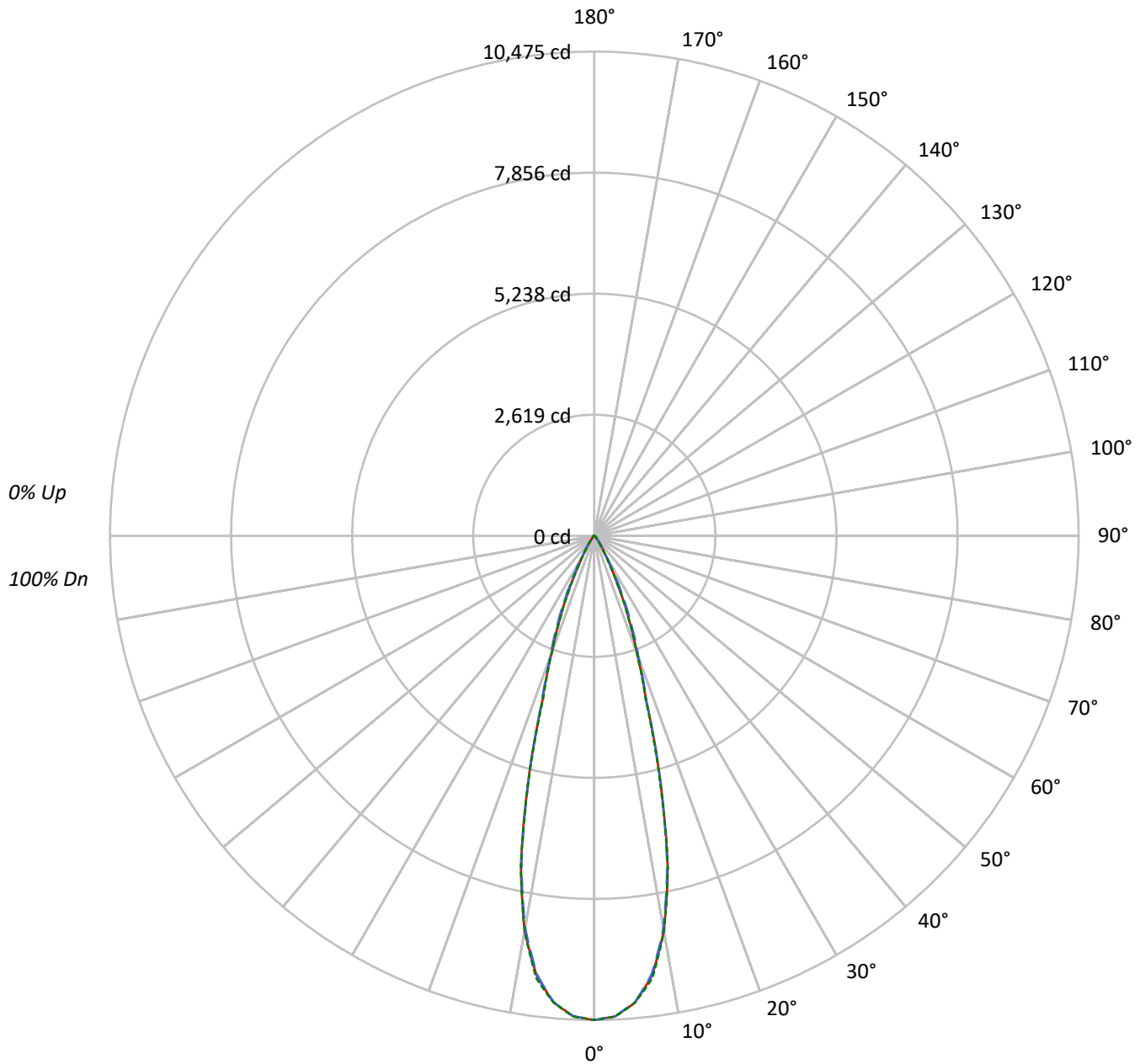


Downlight

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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°	801823	801823	801823
5°	778800	777893	778846
10°	674561	669804	674405
15°	440119	437757	435554
20°	218847	227058	218554
25°	110241	124311	107986
30°	44139	48090	38456
35°	20473	19604	16436
40°	8843	9812	8323
45°	6235	7740	6289
50°	2143	5633	2263
55°	1241	2335	1308
60°	873	1026	873
65°	561	561	561
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: 7740 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	921.2	28.3
10°-20°	1483.5	45.5
20°-30°	641.1	19.7
30°-40°	146.1	4.5
40°-50°	50.2	1.5
50°-60°	12.3	0.4
60°-70°	3.2	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°	3045.7	93.5
0°-40°	3191.8	98.0
0°-60°	3254.3	99.9
0°-90°	3257.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3257.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10475	10475	10475	10475	10475	
5°	10136	10126	10124	10145	10136	922
15°	5554	5487	5524	5506	5496	1487
25°	1305	1355	1472	1320	1279	625
35°	219	224	210	208	176	149
45°	58	72	72	72	58	41
55°	9	10	18	10	10	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°	10475.4	10475.4	10475.4	10475.4	10475.4
2.5°	10405.9	10398.7	10402.9	10408.0	10410.1
5°	10135.9	10126.2	10124.1	10145.2	10136.5
7.5°	9591.3	9577.4	9556.3	9604.1	9648.9
10°	8678.9	8663.5	8617.7	8640.3	8676.9
12.5°	7331.9	7282.1	7281.0	7353.0	7343.3
15°	5554.0	5487.1	5524.2	5506.2	5496.4
17.5°	3734.9	3709.2	3758.5	3743.6	3679.3
20°	2686.7	2693.4	2787.5	2740.2	2683.1
22.5°	1960.5	1984.7	2096.3	1974.4	1929.7
25°	1305.3	1354.7	1471.9	1320.2	1278.6
27.5°	802.8	825.5	944.3	792.5	769.9
30°	499.4	488.1	544.1	467.0	435.1
32.5°	327.6	313.2	331.2	297.3	271.6
35°	219.1	223.7	209.8	208.3	175.9
37.5°	136.8	157.4	138.9	148.1	113.1
40°	88.5	114.2	98.2	108.5	83.3
42.5°	72.5	87.9	80.7	85.9	74.1
45°	57.6	71.5	71.5	71.5	58.1
47.5°	31.9	47.8	61.2	48.9	33.9
50°	18.0	24.2	47.3	25.2	19.0
52.5°	12.3	13.9	32.4	14.4	12.9
55°	9.3	9.8	17.5	10.3	9.8
57.5°	7.2	7.7	9.3	7.7	7.2
60°	5.7	5.7	6.7	6.2	5.7
62.5°	4.1	4.1	4.6	4.1	4.1
65°	3.1	3.1	3.1	3.1	3.1
67.5°	1.5	2.1	2.1	2.1	2.1
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)