

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: P781470

Luminaire Tested: LER4D45BD010-EC4DR3040509024-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781470
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: LER4D45BD010-EC4DR3040509024-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3811.1 lumens
Efficiency: N/A
Efficacy: 98.5 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): 38.7
Input Voltage (V): NR
Input Current (A_{in}): 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

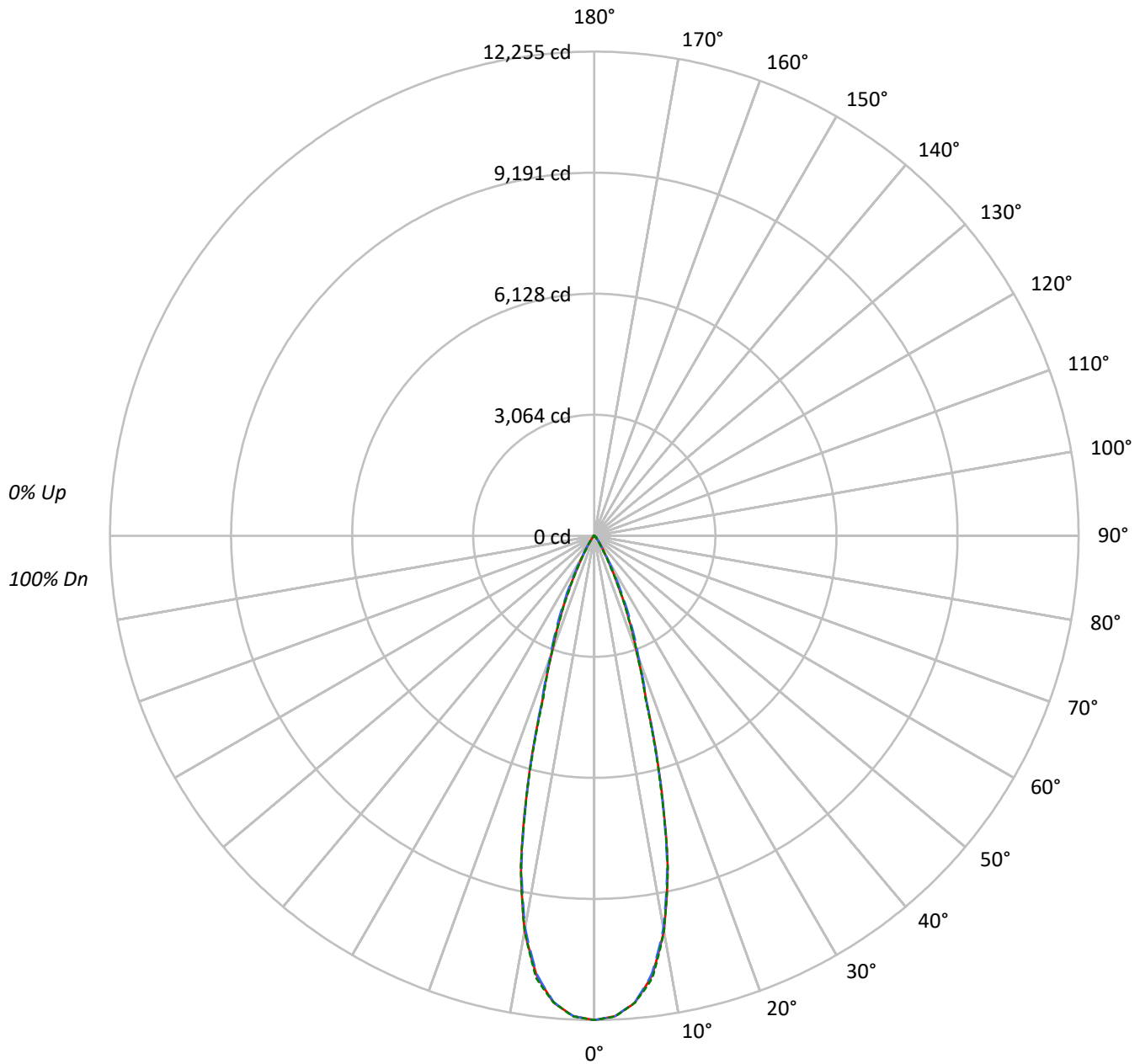


Downlight

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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°	938016	938016	938016
5°	911088	910028	911134
10°	789142	783577	788955
15°	514877	512111	509536
20°	256024	265627	255682
25°	128965	145434	126321
30°	51634	56266	44988
35°	23949	22940	19230
40°	10342	11481	9742
45°	7296	9050	7361
50°	2513	6597	2655
55°	1441	2736	1521
60°	1010	1194	1010
65°	652	652	652
70°	403	269	403
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 9050 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1077.6	28.3
10°-20°	1735.5	45.5
20°-30°	750.0	19.7
30°-40°	170.9	4.5
40°-50°	58.7	1.5
50°-60°	14.3	0.4
60°-70°	3.7	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°	3563.1	93.5
0°-40°	3734.0	98.0
0°-60°	3807.0	99.9
0°-90°	3811.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3811.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12255	12255	12255	12255	12255	
5°	11858	11846	11844	11868	11858	1079
15°	6497	6419	6462	6441	6430	1740
25°	1527	1585	1722	1544	1496	731
35°	256	262	246	244	206	174
45°	67	84	84	84	68	48
55°	11	11	20	12	11	11
65°	4	4	4	4	4	4
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°	12254.7	12254.7	12254.7	12254.7	12254.7
2.5°	12173.5	12165.1	12169.9	12175.9	12178.3
5°	11857.6	11846.2	11843.8	11868.4	11858.2
7.5°	11220.4	11204.2	11179.5	11235.5	11287.8
10°	10153.1	10135.0	10081.5	10108.0	10150.7
12.5°	8577.3	8519.0	8517.8	8602.0	8590.6
15°	6497.4	6419.2	6462.5	6441.4	6430.0
17.5°	4369.3	4339.2	4397.0	4379.5	4304.3
20°	3143.1	3150.9	3261.0	3205.7	3138.9
22.5°	2293.5	2321.8	2452.4	2309.8	2257.4
25°	1527.0	1584.8	1722.0	1544.5	1495.7
27.5°	939.2	965.7	1104.7	927.2	900.7
30°	584.2	571.0	636.6	546.3	509.0
32.5°	383.3	366.4	387.5	347.8	317.7
35°	256.3	261.7	245.5	243.7	205.8
37.5°	160.0	184.1	162.4	173.3	132.4
40°	103.5	133.6	114.9	127.0	97.5
42.5°	84.8	102.9	94.5	100.5	86.6
45°	67.4	83.6	83.6	83.6	68.0
47.5°	37.3	56.0	71.6	57.2	39.7
50°	21.1	28.3	55.4	29.5	22.3
52.5°	14.4	16.2	37.9	16.8	15.0
55°	10.8	11.4	20.5	12.0	11.4
57.5°	8.4	9.0	10.8	9.0	8.4
60°	6.6	6.6	7.8	7.2	6.6
62.5°	4.8	4.8	5.4	4.8	4.8
65°	3.6	3.6	3.6	3.6	3.6
67.5°	1.8	2.4	2.4	2.4	2.4
70°	1.8	1.2	1.2	1.2	1.8
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)