

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: P781472

Luminaire Tested: LER4D45BD010-EC4DR3040509027-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781472
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-EC4DR3040509027-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3855.0 lumens
Efficiency: N/A
Efficacy: 99.6 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 (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

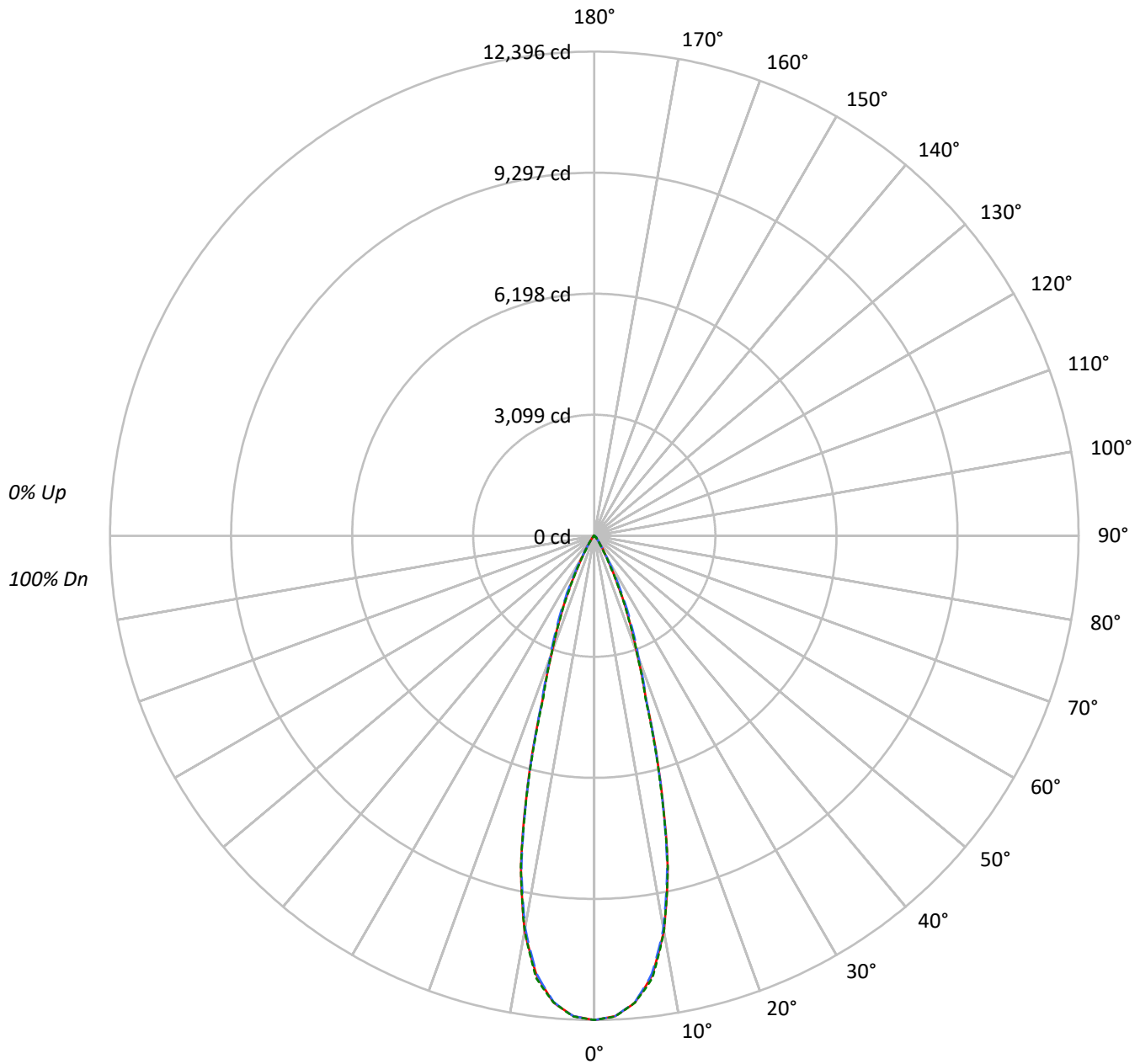


Downlight

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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°	948801	948801	948801
5°	921561	920485	921607
10°	798212	792585	798025
15°	520797	517999	515392
20°	258964	268682	258622
25°	130451	147106	127774
30°	52227	56911	45509
35°	24230	23202	19445
40°	10462	11611	9852
45°	7383	9158	7448
50°	2536	6669	2679
55°	1468	2762	1548
60°	1026	1209	1026
65°	670	670	670
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: 9158 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1090.0	28.3
10°-20°	1755.5	45.5
20°-30°	758.6	19.7
30°-40°	172.9	4.5
40°-50°	59.4	1.5
50°-60°	14.5	0.4
60°-70°	3.8	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°	3604.0	93.5
0°-40°	3776.9	98.0
0°-60°	3850.8	99.9
0°-90°	3855.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3855.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12396	12396	12396	12396	12396	
5°	11994	11982	11980	12005	11994	1091
15°	6572	6493	6537	6516	6504	1760
25°	1545	1603	1742	1562	1513	739
35°	259	265	248	246	208	176
45°	68	85	85	85	69	48
55°	11	12	21	12	12	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°	12395.6	12395.6	12395.6	12395.6	12395.6
2.5°	12313.4	12304.9	12309.8	12315.9	12318.3
5°	11993.9	11982.4	11979.9	12004.9	11994.5
7.5°	11349.4	11333.0	11308.1	11364.7	11417.6
10°	10269.8	10251.6	10197.4	10224.2	10267.4
12.5°	8675.9	8616.9	8615.7	8700.9	8689.3
15°	6572.1	6493.0	6536.8	6515.5	6503.9
17.5°	4419.5	4389.1	4447.5	4429.9	4353.8
20°	3179.2	3187.1	3298.5	3242.5	3175.0
22.5°	2319.9	2348.5	2480.6	2336.3	2283.4
25°	1544.6	1603.0	1741.8	1562.2	1512.9
27.5°	950.0	976.8	1117.4	937.8	911.0
30°	590.9	577.5	643.9	552.6	514.9
32.5°	387.7	370.6	391.9	351.8	321.3
35°	259.3	264.7	248.3	246.5	208.1
37.5°	161.9	186.2	164.3	175.3	133.9
40°	104.7	135.1	116.2	128.4	98.6
42.5°	85.8	104.1	95.5	101.6	87.6
45°	68.2	84.6	84.6	84.6	68.8
47.5°	37.7	56.6	72.4	57.8	40.2
50°	21.3	28.6	56.0	29.8	22.5
52.5°	14.6	16.4	38.3	17.0	15.2
55°	11.0	11.6	20.7	12.2	11.6
57.5°	8.5	9.1	11.0	9.1	8.5
60°	6.7	6.7	7.9	7.3	6.7
62.5°	4.9	4.9	5.5	4.9	4.9
65°	3.7	3.7	3.7	3.7	3.7
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)