

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: P784880

Luminaire Tested: LER4DD45BD010-EC4DR3040509027-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P784880
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: LER4DD45BD010-EC4DR3040509027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 3144.7 lumens
Efficiency: N/A
Efficacy: 81.3 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

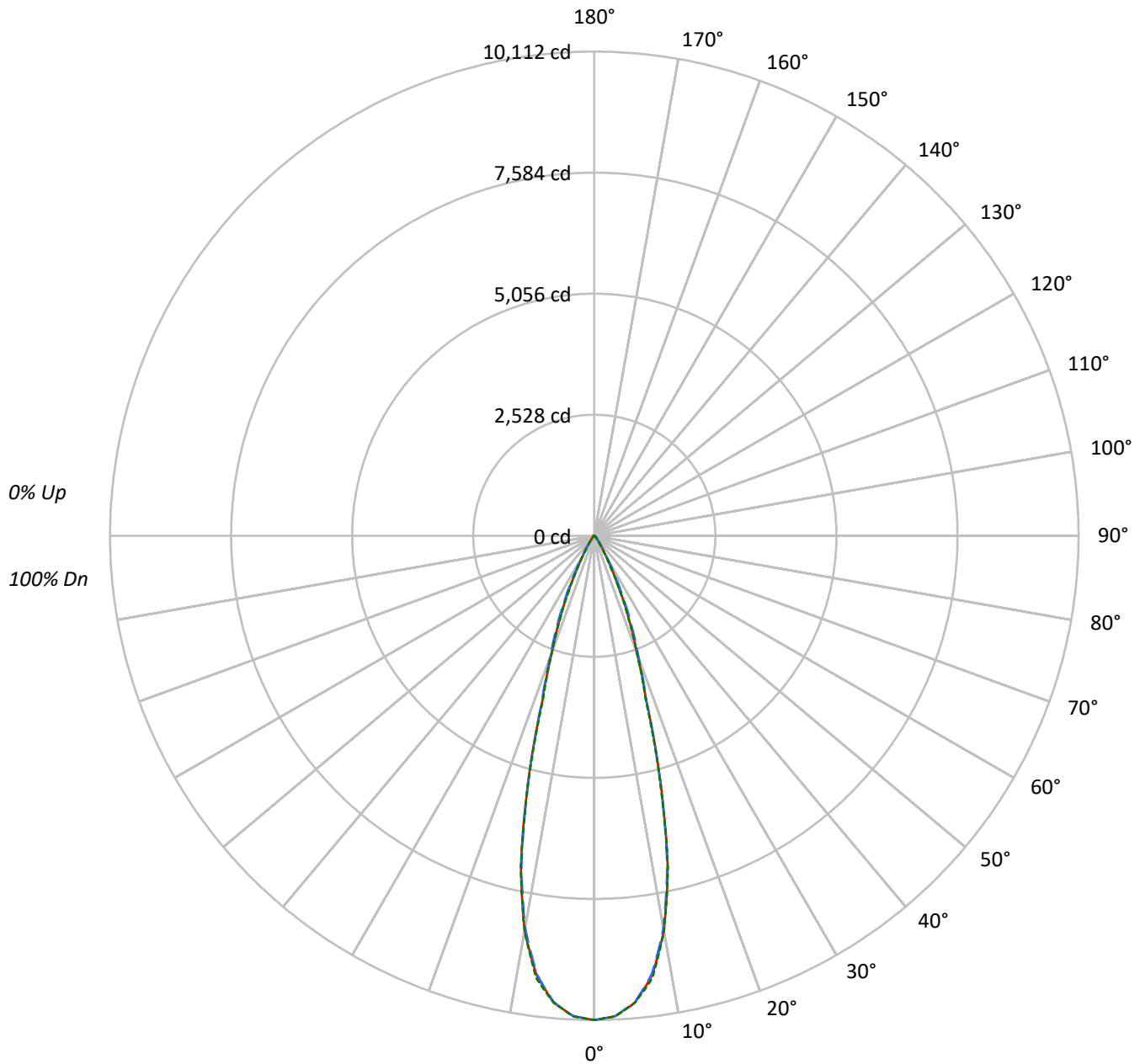


Downlight

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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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	115	113	111	109	112	110	109	107		106	105	104		103	102	101		99	99	98
2	111	107	104	101	109	105	102	100		102	100	98		99	97	96		97	95	94
3	107	102	98	95	105	101	97	94		98	95	93		96	93	91		94	92	90
4	103	98	93	90	102	96	93	90		94	91	89		93	90	88		91	89	87
5	100	94	89	86	98	93	89	86		91	88	85		90	86	84		88	86	83
6	97	90	85	82	95	89	85	82		88	84	81		87	83	81		85	83	80
7	94	87	82	79	92	86	82	79		85	81	78		84	81	78		83	80	78
8	91	84	79	76	90	83	79	76		82	78	76		81	78	75		80	77	75
9	88	81	76	73	87	80	76	73		80	76	73		79	75	73		78	75	73
10	85	78	74	71	85	78	74	71		77	73	71		76	73	71		76	73	70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	773992	773992	773992
5°	751769	750893	751807
10°	651150	646557	650995
15°	424841	422558	420435
20°	211256	219181	210970
25°	106415	120004	104236
30°	42610	46428	37122
35°	19763	18931	15866
40°	8533	9472	8034
45°	6019	7469	6073
50°	2072	5442	2191
55°	1188	2255	1254
60°	842	995	842
65°	543	543	543
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: 7469 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	889.2	28.3
10°-20°	1432.0	45.5
20°-30°	618.8	19.7
30°-40°	141.0	4.5
40°-50°	48.4	1.5
50°-60°	11.8	0.4
60°-70°	3.1	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°	2940.0	93.5
0°-40°	3081.1	98.0
0°-60°	3141.3	99.9
0°-90°	3144.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3144.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10112	10112	10112	10112	10112	
5°	9784	9775	9773	9793	9785	890
15°	5361	5297	5332	5315	5306	1436
25°	1260	1308	1421	1274	1234	603
35°	212	216	203	201	170	143
45°	56	69	69	69	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°	10111.8	10111.8	10111.8	10111.8	10111.8
2.5°	10044.8	10037.8	10041.8	10046.8	10048.8
5°	9784.1	9774.7	9772.7	9793.1	9784.6
7.5°	9258.4	9245.0	9224.6	9270.8	9314.0
10°	8377.7	8362.8	8318.6	8340.5	8375.7
12.5°	7077.5	7029.3	7028.3	7097.8	7088.4
15°	5361.2	5296.7	5332.4	5315.1	5305.6
17.5°	3605.3	3580.4	3628.1	3613.7	3551.6
20°	2593.5	2599.9	2690.8	2645.1	2590.0
22.5°	1892.5	1915.8	2023.6	1905.9	1862.7
25°	1260.0	1307.7	1420.9	1274.4	1234.2
27.5°	775.0	796.8	911.5	765.0	743.2
30°	482.1	471.1	525.3	450.8	420.0
32.5°	316.2	302.3	319.7	287.0	262.1
35°	211.5	216.0	202.6	201.1	169.8
37.5°	132.1	151.9	134.0	143.0	109.2
40°	85.4	110.2	94.8	104.8	80.4
42.5°	70.0	84.9	77.9	82.9	71.5
45°	55.6	69.0	69.0	69.0	56.1
47.5°	30.8	46.2	59.1	47.2	32.8
50°	17.4	23.3	45.7	24.3	18.4
52.5°	11.9	13.4	31.3	13.9	12.4
55°	8.9	9.4	16.9	9.9	9.4
57.5°	7.0	7.4	8.9	7.4	7.0
60°	5.5	5.5	6.5	6.0	5.5
62.5°	4.0	4.0	4.5	4.0	4.0
65°	3.0	3.0	3.0	3.0	3.0
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)