

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: P784637

Luminaire Tested: LER4DD40BD010-EC4DR3040509024-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P784637
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: LER4DD40BD010-EC4DR3040509024-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-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: 3147.9 lumens
Efficiency: N/A
Efficacy: 89.4 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): 35.2
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

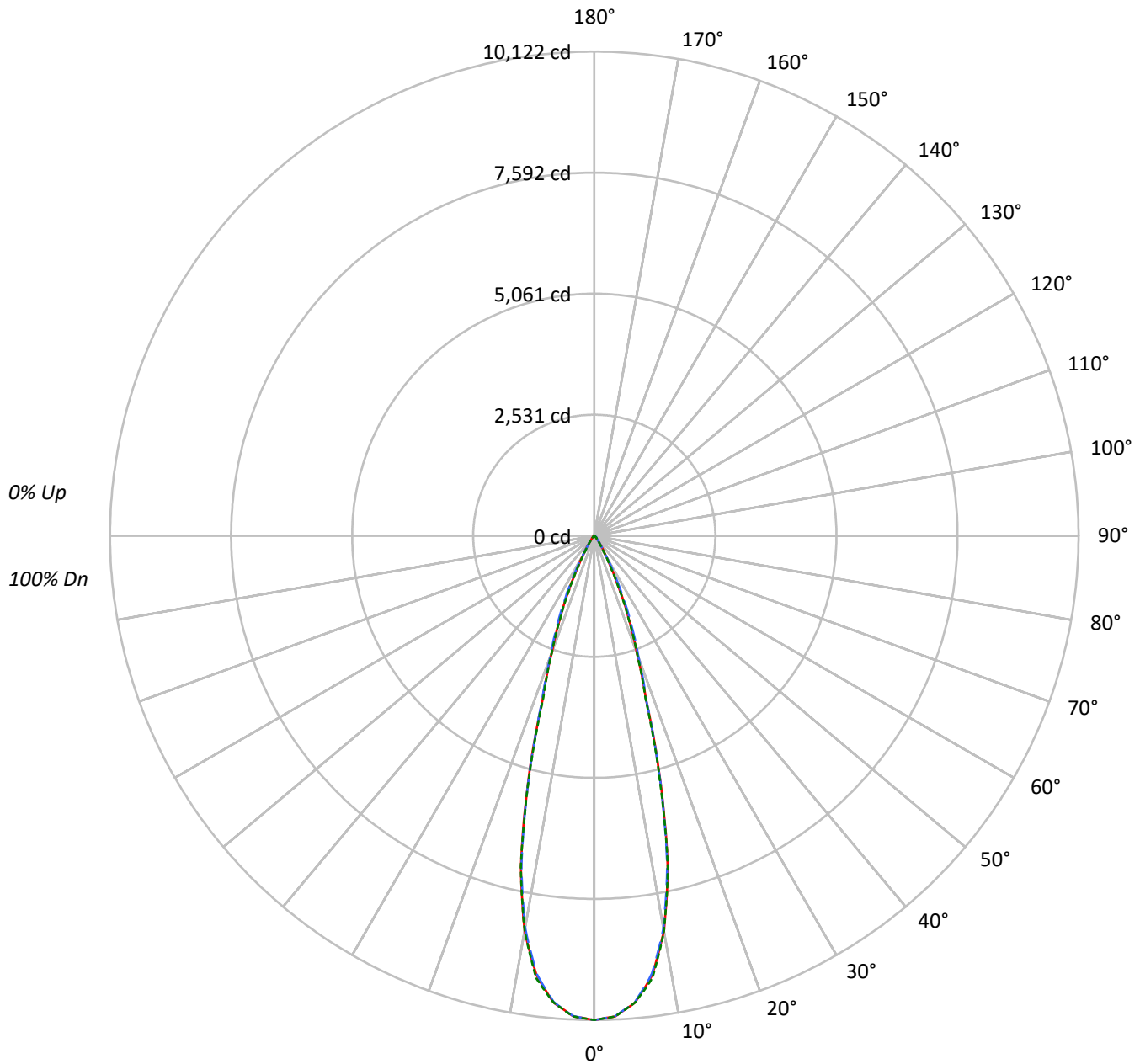


Downlight

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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°	774780	774780	774780
5°	752537	751654	752576
10°	651811	647209	651655
15°	425276	422986	420863
20°	211467	219401	211182
25°	106525	120122	104337
30°	42646	46473	37157
35°	19782	18950	15885
40°	8543	9482	8044
45°	6029	7480	6084
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: 7480 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	890.1	28.3
10°-20°	1433.5	45.5
20°-30°	619.4	19.7
30°-40°	141.2	4.5
40°-50°	48.5	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°	2943.0	93.5
0°-40°	3084.2	98.0
0°-60°	3144.5	99.9
0°-90°	3147.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3147.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10122	10122	10122	10122	10122	
5°	9794	9785	9783	9803	9795	891
15°	5367	5302	5338	5320	5311	1437
25°	1261	1309	1422	1276	1235	604
35°	212	216	203	201	170	144
45°	56	69	69	69	56	40
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°	10122.1	10122.1	10122.1	10122.1	10122.1
2.5°	10055.0	10048.0	10052.0	10057.0	10058.9
5°	9794.1	9784.6	9782.6	9803.0	9794.6
7.5°	9267.8	9254.4	9234.0	9280.2	9323.4
10°	8386.2	8371.3	8327.0	8348.9	8384.2
12.5°	7084.6	7036.4	7035.4	7105.0	7095.6
15°	5366.7	5302.1	5337.8	5320.4	5311.0
17.5°	3608.9	3584.1	3631.8	3617.4	3555.2
20°	2596.1	2602.6	2693.5	2647.8	2592.6
22.5°	1894.4	1917.8	2025.6	1907.8	1864.6
25°	1261.3	1309.0	1422.3	1275.7	1235.4
27.5°	775.8	797.6	912.4	765.8	743.9
30°	482.5	471.6	525.8	451.2	420.4
32.5°	316.6	302.6	320.0	287.2	262.4
35°	211.7	216.2	202.8	201.3	170.0
37.5°	132.2	152.1	134.2	143.1	109.3
40°	85.5	110.3	94.9	104.9	80.5
42.5°	70.1	85.0	78.0	83.0	71.6
45°	55.7	69.1	69.1	69.1	56.2
47.5°	30.8	46.2	59.1	47.2	32.8
50°	17.4	23.4	45.7	24.4	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	7.5	8.9	7.5	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



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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)