

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: P784655

Luminaire Tested: LER4DD40BD010-EC4DR3040509040-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P784655
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-EC4DR3040509040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3466.4 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): 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

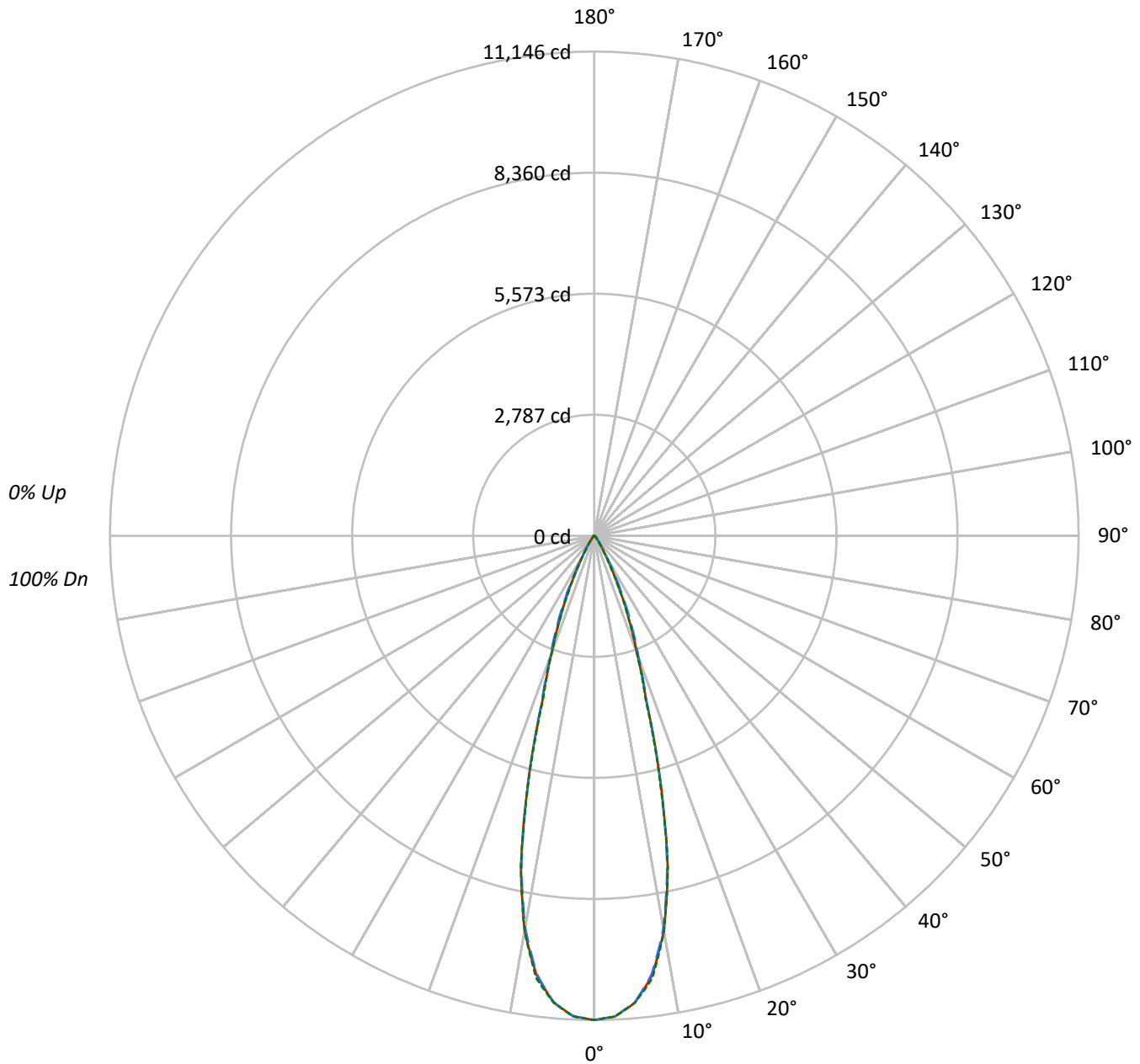


Downlight

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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°	853176	853176	853176
5°	828682	827713	828728
10°	717767	712708	717596
15°	468306	465794	463448
20°	232866	241606	232556
25°	117301	132275	114903
30°	46968	51175	40922
35°	21781	20866	17492
40°	9403	10442	8863
45°	6636	8238	6690
50°	2286	5990	2405
55°	1321	2482	1388
60°	919	1087	919
65°	598	598	598
70°	358	246	358
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 8238 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	980.1	28.3
10°-20°	1578.5	45.5
20°-30°	682.1	19.7
30°-40°	155.5	4.5
40°-50°	53.4	1.5
50°-60°	13.0	0.4
60°-70°	3.4	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°	3240.8	93.5
0°-40°	3396.3	98.0
0°-60°	3462.7	99.9
0°-90°	3466.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3466.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11146	11146	11146	11146	11146	
5°	10785	10775	10772	10795	10786	981
15°	5910	5839	5878	5859	5848	1582
25°	1389	1441	1566	1405	1360	665
35°	233	238	223	222	187	158
45°	61	76	76	76	62	44
55°	10	10	19	11	10	10
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°	11146.3	11146.3	11146.3	11146.3	11146.3
2.5°	11072.4	11064.8	11069.1	11074.6	11076.8
5°	10785.1	10774.7	10772.5	10795.0	10785.7
7.5°	10205.6	10190.8	10168.4	10219.3	10266.9
10°	9234.8	9218.4	9169.7	9193.7	9232.6
12.5°	7801.5	7748.5	7747.4	7824.0	7813.6
15°	5909.7	5838.6	5878.0	5858.8	5848.4
17.5°	3974.1	3946.7	3999.3	3983.4	3915.0
20°	2858.8	2865.9	2966.1	2915.7	2855.0
22.5°	2086.1	2111.8	2230.6	2100.9	2053.3
25°	1388.9	1441.4	1566.2	1404.8	1360.5
27.5°	854.3	878.3	1004.7	843.3	819.2
30°	531.4	519.3	579.0	496.9	463.0
32.5°	348.6	333.3	352.4	316.3	288.9
35°	233.1	238.1	223.3	221.6	187.2
37.5°	145.6	167.5	147.8	157.6	120.4
40°	94.1	121.5	104.5	115.5	88.7
42.5°	77.2	93.6	85.9	91.4	78.8
45°	61.3	76.1	76.1	76.1	61.8
47.5°	33.9	50.9	65.1	52.0	36.1
50°	19.2	25.7	50.3	26.8	20.2
52.5°	13.1	14.8	34.5	15.3	13.7
55°	9.9	10.4	18.6	10.9	10.4
57.5°	7.7	8.2	9.9	8.2	7.7
60°	6.0	6.0	7.1	6.6	6.0
62.5°	4.4	4.4	4.9	4.4	4.4
65°	3.3	3.3	3.3	3.3	3.3
67.5°	1.6	2.2	2.2	2.2	2.2
70°	1.6	1.1	1.1	1.1	1.6
72.5°	1.1	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)