

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: P781243

Luminaire Tested: LER4D40BD010-EC4DR3040509035-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781243
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: LER4D40BD010-EC4DR3040509035-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3714.5 lumens
Efficiency: N/A
Efficacy: 105.5 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 (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

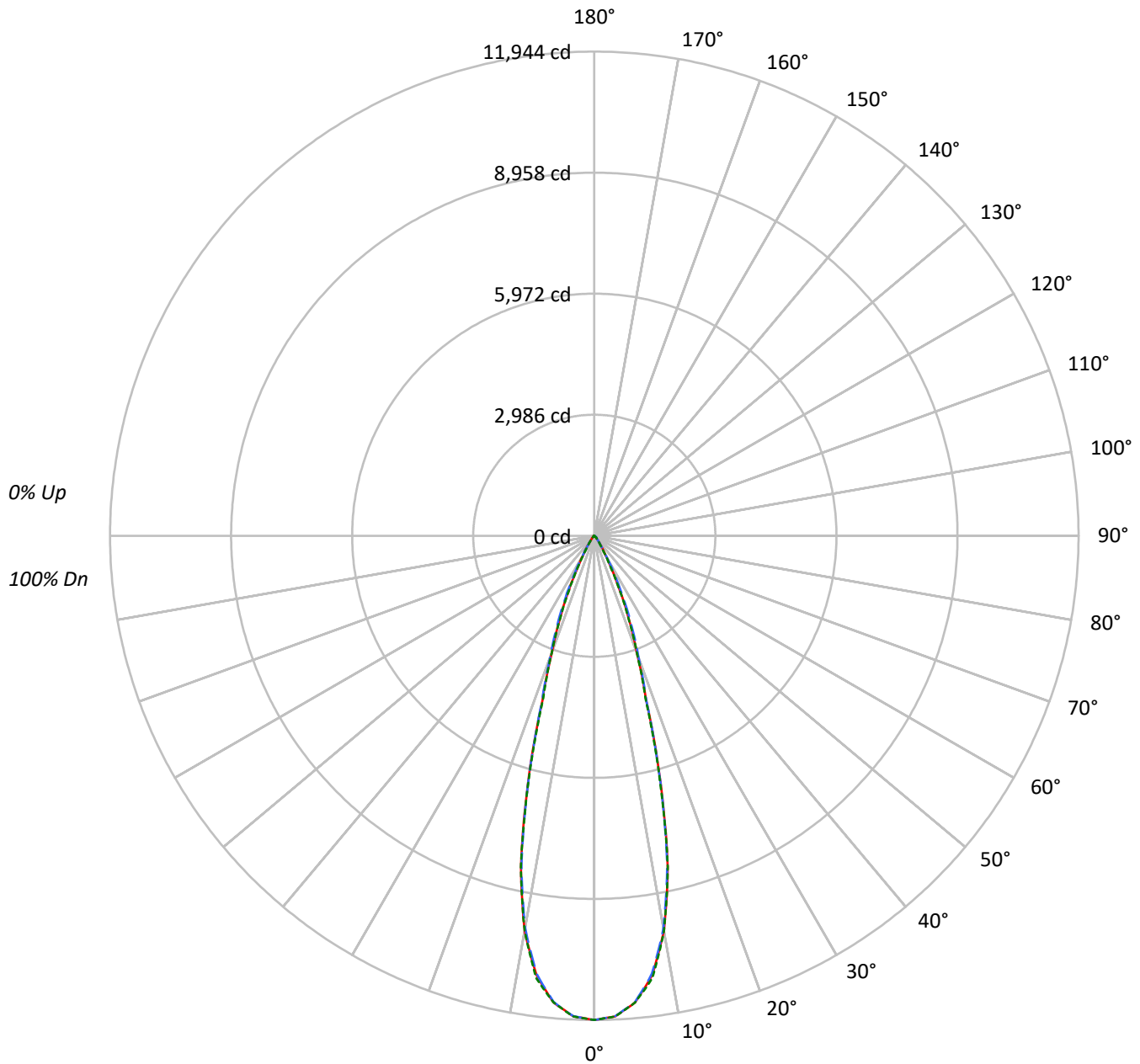


Downlight

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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°	914227	914227	914227
5°	887983	886946	888030
10°	769128	763702	768949
15°	501818	499123	496611
20°	249532	258891	249198
25°	125696	141743	123120
30°	50326	54834	43848
35°	23342	22361	18745
40°	10082	11191	9492
45°	7112	8822	7177
50°	2441	6418	2584
55°	1415	2656	1481
60°	995	1163	995
65°	634	634	634
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: 8822 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1050.3	28.3
10°-20°	1691.5	45.5
20°-30°	730.9	19.7
30°-40°	166.6	4.5
40°-50°	57.2	1.5
50°-60°	14.0	0.4
60°-70°	3.6	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°	3472.7	93.5
0°-40°	3639.3	98.0
0°-60°	3710.5	99.9
0°-90°	3714.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3714.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11944	11944	11944	11944	11944	
5°	11557	11546	11543	11567	11558	1051
15°	6333	6256	6299	6278	6267	1696
25°	1488	1545	1678	1505	1458	712
35°	250	255	239	238	201	169
45°	66	82	82	82	66	47
55°	11	11	20	12	11	10
65°	4	4	4	4	4	3
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°	11943.9	11943.9	11943.9	11943.9	11943.9
2.5°	11864.8	11856.5	11861.2	11867.1	11869.4
5°	11556.9	11545.8	11543.4	11567.4	11557.5
7.5°	10935.9	10920.1	10896.0	10950.5	11001.6
10°	9895.6	9878.0	9825.8	9851.6	9893.3
12.5°	8359.8	8302.9	8301.8	8383.8	8372.7
15°	6332.6	6256.4	6298.6	6278.1	6266.9
17.5°	4258.5	4229.2	4285.5	4268.5	4195.1
20°	3063.4	3071.0	3178.3	3124.4	3059.3
22.5°	2235.4	2262.9	2390.2	2251.2	2200.2
25°	1488.3	1544.6	1678.3	1505.3	1457.8
27.5°	915.4	941.2	1076.6	903.7	877.9
30°	569.4	556.5	620.4	532.5	496.1
32.5°	373.5	357.1	377.6	338.9	309.6
35°	249.8	255.1	239.3	237.5	200.6
37.5°	156.0	179.4	158.3	168.9	129.0
40°	100.9	130.2	112.0	123.7	95.0
42.5°	82.7	100.3	92.1	97.9	84.4
45°	65.7	81.5	81.5	81.5	66.3
47.5°	36.4	54.5	69.8	55.7	38.7
50°	20.5	27.6	53.9	28.7	21.7
52.5°	14.1	15.8	36.9	16.4	14.7
55°	10.6	11.1	19.9	11.7	11.1
57.5°	8.2	8.8	10.6	8.8	8.2
60°	6.5	6.5	7.6	7.0	6.5
62.5°	4.7	4.7	5.3	4.7	4.7
65°	3.5	3.5	3.5	3.5	3.5
67.5°	1.8	2.3	2.3	2.3	2.3
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)