

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: P781231

Luminaire Tested: LER4D40BD010-EC4DR3040509024-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781231
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-EC4DR3040509024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3149.8 lumens
Efficiency: N/A
Efficacy: 89.5 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

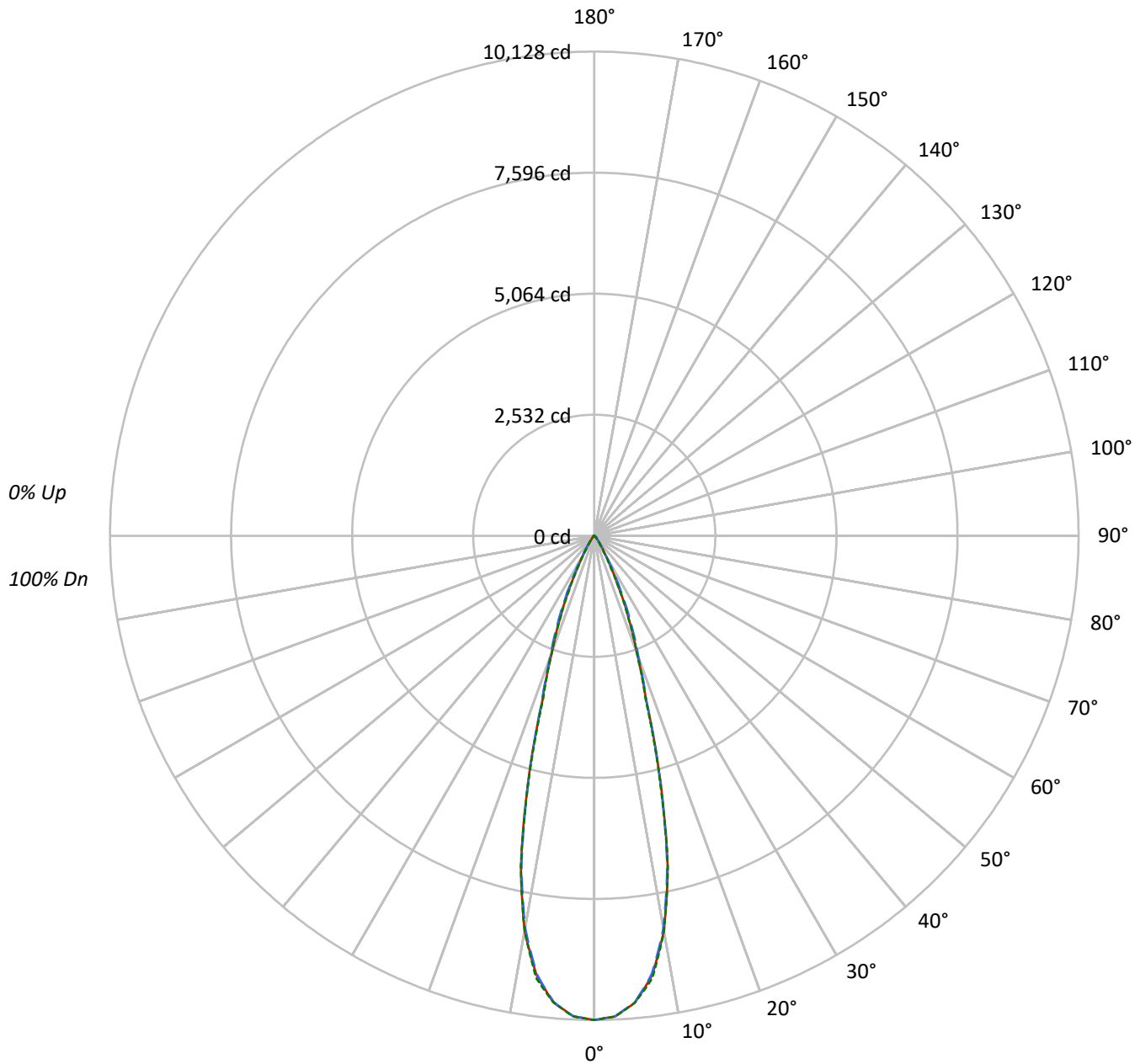


Downlight

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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					0
RW	70	50	30	10	70	50	30	10	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	100		
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96		
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92		
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89		
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85		
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82		
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79		
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77		
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74		
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72		
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	775224	775224	775224
5°	752968	752092	753006
10°	652184	647590	652036
15°	425522	423232	421108
20°	211590	219531	211304
25°	106584	120190	104405
30°	42672	46499	37183
35°	19791	18959	15895
40°	8543	9492	8054
45°	6029	7480	6084
50°	2072	5442	2191
55°	1201	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°	890.6	28.3
10°-20°	1434.3	45.5
20°-30°	619.8	19.7
30°-40°	141.3	4.5
40°-50°	48.5	1.5
50°-60°	11.9	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°	2944.7	93.5
0°-40°	3086.0	98.0
0°-60°	3146.3	99.9
0°-90°	3149.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3149.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10128	10128	10128	10128	10128	
5°	9800	9790	9788	9809	9800	891
15°	5370	5305	5341	5324	5314	1438
25°	1262	1310	1423	1276	1236	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°	10127.9	10127.9	10127.9	10127.9	10127.9
2.5°	10060.8	10053.8	10057.8	10062.8	10064.8
5°	9799.7	9790.3	9788.3	9808.7	9800.2
7.5°	9273.2	9259.7	9239.4	9285.6	9328.9
10°	8391.0	8376.1	8331.9	8353.8	8389.1
12.5°	7088.8	7040.5	7039.5	7109.1	7099.7
15°	5369.8	5305.1	5340.9	5323.5	5314.1
17.5°	3611.0	3586.1	3633.9	3619.5	3557.3
20°	2597.6	2604.1	2695.1	2649.3	2594.1
22.5°	1895.5	1918.9	2026.8	1908.9	1865.7
25°	1262.0	1309.7	1423.1	1276.4	1236.2
27.5°	776.2	798.1	912.9	766.3	744.4
30°	482.8	471.9	526.1	451.5	420.7
32.5°	316.7	302.8	320.2	287.4	262.5
35°	211.8	216.3	202.9	201.4	170.1
37.5°	132.3	152.2	134.3	143.2	109.4
40°	85.5	110.4	95.0	104.9	80.6
42.5°	70.1	85.0	78.1	83.0	71.6
45°	55.7	69.1	69.1	69.1	56.2
47.5°	30.8	46.2	59.2	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°	9.0	9.4	16.9	9.9	9.4
57.5°	7.0	7.5	9.0	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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)