

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: P780173

Luminaire Tested: LER4D20D010-EC4DR3020359024-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780173
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: LER4D20D010-EC4DR3020359024-4LBS1H
Description: 4 INCH ROUND SHALLOW 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: 1653.6 lumens
Efficiency: N/A
Efficacy: 71.6 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): 23.1
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



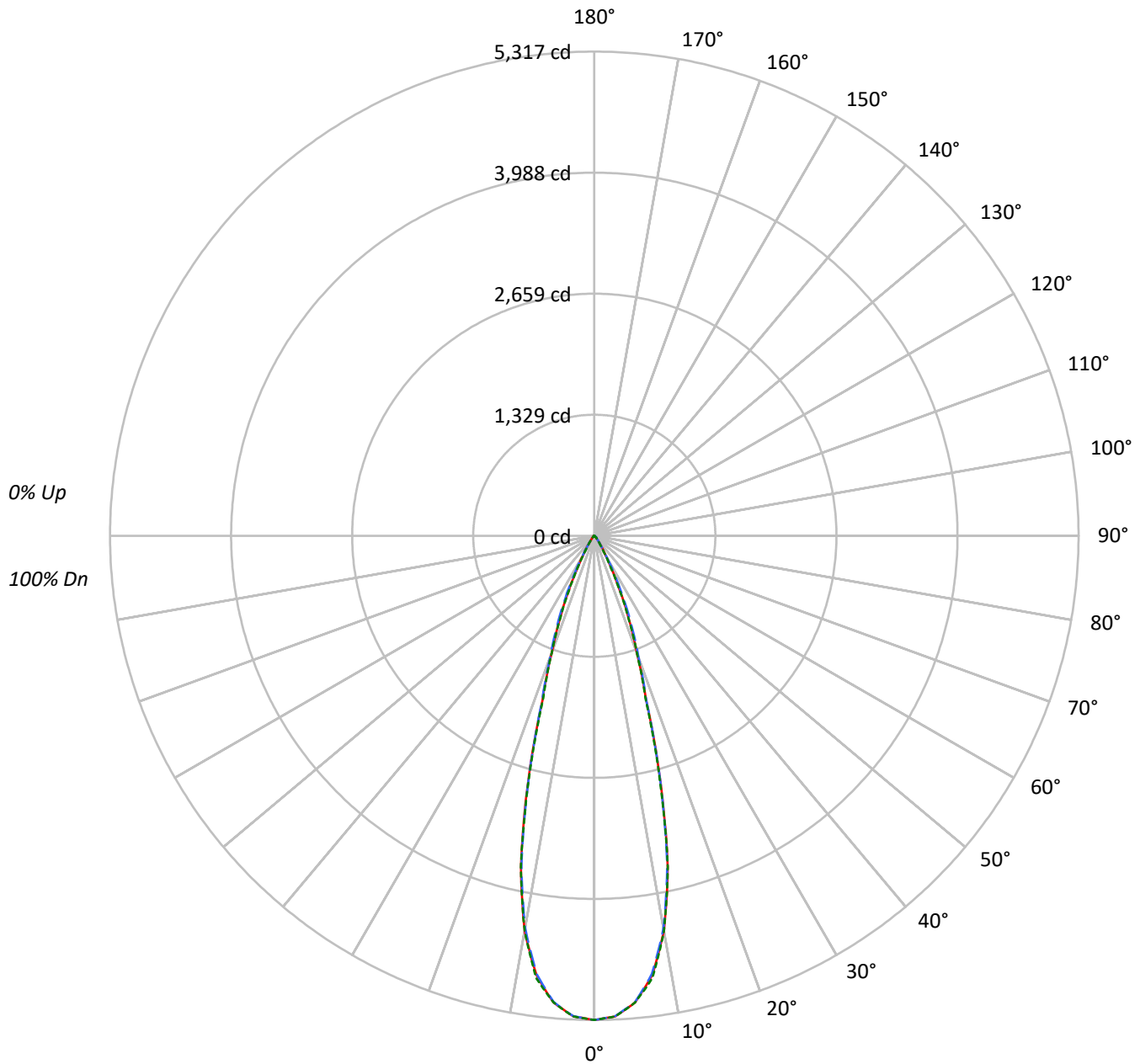
Downlight



TEST NUMBER: P780173

CATALOG NUMBER: LER4D20D010-EC4DR3020359024-4LBS1H

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°	407004	407004	407004
5°	395320	394859	395343
10°	342406	339997	342328
15°	223403	222207	221090
20°	111089	115260	110943
25°	55961	63106	54812
30°	22406	24412	19524
35°	10391	9952	8344
40°	4486	4976	4227
45°	3161	3929	3193
50°	1084	2858	1155
55°	627	1188	667
60°	444	520	444
65°	272	272	272
70°	179	112	179
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 3929 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.6	28.3
10°-20°	753.0	45.5
20°-30°	325.4	19.7
30°-40°	74.2	4.5
40°-50°	25.5	1.5
50°-60°	6.2	0.4
60°-70°	1.6	0.1
70°-80°	0.2	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°	1546.0	93.5
0°-40°	1620.2	98.0
0°-60°	1651.9	99.9
0°-90°	1653.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1653.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5317	5317	5317	5317	5317	
5°	5145	5140	5139	5150	5145	468
15°	2819	2785	2804	2795	2790	755
25°	663	688	747	670	649	317
35°	111	114	106	106	89	75
45°	29	36	36	36	30	21
55°	5	5	9	5	5	5
65°	2	2	2	2	2	2
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°	5317.3	5317.3	5317.3	5317.3	5317.3
2.5°	5282.1	5278.4	5280.5	5283.1	5284.2
5°	5145.0	5140.1	5139.0	5149.7	5145.3
7.5°	4868.5	4861.5	4850.8	4875.1	4897.8
10°	4405.4	4397.6	4374.4	4385.8	4404.4
12.5°	3721.7	3696.4	3695.9	3732.4	3727.4
15°	2819.2	2785.3	2804.1	2794.9	2790.0
17.5°	1895.8	1882.8	1907.9	1900.2	1867.6
20°	1363.8	1367.2	1415.0	1391.0	1362.0
22.5°	995.2	1007.4	1064.1	1002.2	979.5
25°	662.6	687.7	747.2	670.1	649.0
27.5°	407.5	419.0	479.3	402.3	390.8
30°	253.5	247.7	276.2	237.0	220.9
32.5°	166.3	159.0	168.1	150.9	137.9
35°	111.2	113.6	106.5	105.7	89.3
37.5°	69.4	79.9	70.5	75.2	57.4
40°	44.9	58.0	49.8	55.1	42.3
42.5°	36.8	44.6	41.0	43.6	37.6
45°	29.2	36.3	36.3	36.3	29.5
47.5°	16.2	24.3	31.1	24.8	17.2
50°	9.1	12.3	24.0	12.8	9.7
52.5°	6.2	7.0	16.4	7.3	6.5
55°	4.7	5.0	8.9	5.2	5.0
57.5°	3.7	3.9	4.7	3.9	3.7
60°	2.9	2.9	3.4	3.2	2.9
62.5°	2.1	2.1	2.3	2.1	2.1
65°	1.5	1.5	1.5	1.5	1.5
67.5°	0.8	1.0	1.0	1.0	1.0
70°	0.8	0.5	0.5	0.5	0.8
72.5°	0.5	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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)