

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: P781245

Luminaire Tested: LER4D40BD010-EC4DR3040509040-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781245
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-EC4DR3040509040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4090.4 lumens
Efficiency: N/A
Efficacy: 116.2 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

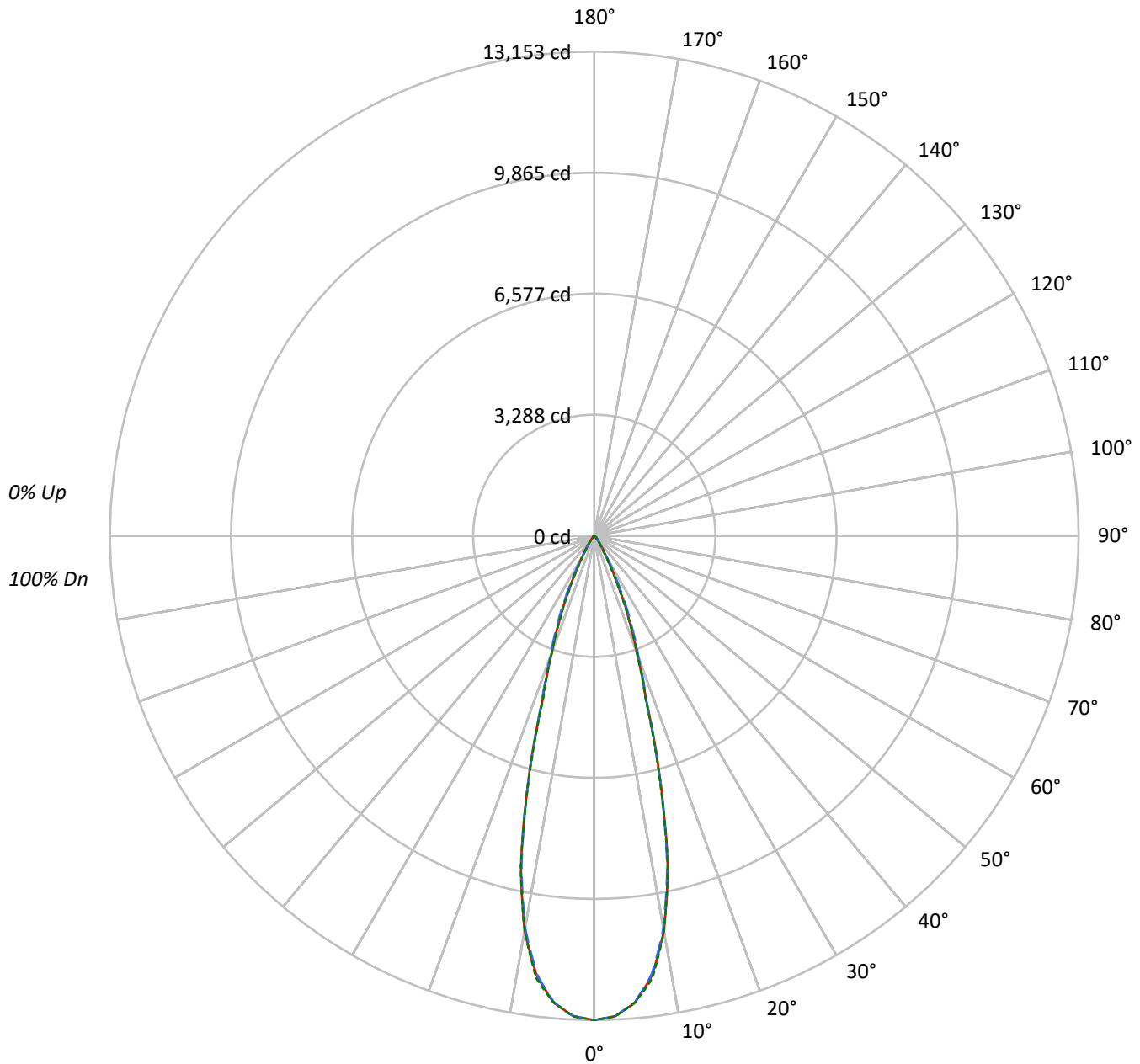


Downlight

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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	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°	1006752	1006752	1006752
5°	977851	976713	977904
10°	846968	840991	846766
15°	552605	549633	546876
20°	274783	285095	274416
25°	138415	156084	135578
30°	55417	60384	48285
35°	25706	24622	20632
40°	11101	12320	10452
45°	7826	9721	7902
50°	2691	7073	2846
55°	1548	2936	1641
60°	1087	1286	1087
65°	706	706	706
70°	425	291	425
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 9721 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1156.6	28.3
10°-20°	1862.7	45.5
20°-30°	804.9	19.7
30°-40°	183.5	4.5
40°-50°	63.0	1.5
50°-60°	15.4	0.4
60°-70°	4.0	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°	3824.2	93.5
0°-40°	4007.6	98.0
0°-60°	4086.0	99.9
0°-90°	4090.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4090.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13153	13153	13153	13153	13153	
5°	12726	12714	12712	12738	12727	1158
15°	6974	6890	6936	6913	6901	1867
25°	1639	1701	1848	1658	1605	784
35°	275	281	264	262	221	187
45°	72	90	90	90	73	51
55°	12	12	22	13	12	11
65°	4	4	4	4	4	4
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°	13152.7	13152.7	13152.7	13152.7	13152.7
2.5°	13065.5	13056.5	13061.7	13068.1	13070.7
5°	12726.5	12714.2	12711.7	12738.1	12727.2
7.5°	12042.7	12025.2	11998.7	12058.8	12115.0
10°	10897.1	10877.7	10820.2	10848.7	10894.5
12.5°	9205.9	9143.2	9141.9	9232.3	9220.1
15°	6973.5	6889.5	6936.0	6913.4	6901.2
17.5°	4689.5	4657.2	4719.2	4700.4	4619.7
20°	3373.4	3381.8	3500.0	3440.6	3368.9
22.5°	2461.6	2492.0	2632.1	2479.0	2422.9
25°	1638.9	1700.9	1848.1	1657.6	1605.3
27.5°	1008.0	1036.4	1185.6	995.1	966.7
30°	627.0	612.8	683.2	586.3	546.3
32.5°	411.3	393.3	415.9	373.2	341.0
35°	275.1	280.9	263.5	261.5	220.8
37.5°	171.8	197.6	174.4	186.0	142.1
40°	111.1	143.4	123.3	136.3	104.6
42.5°	91.1	110.4	101.4	107.8	93.0
45°	72.3	89.8	89.8	89.8	73.0
47.5°	40.0	60.1	76.8	61.3	42.6
50°	22.6	30.4	59.4	31.6	23.9
52.5°	15.5	17.4	40.7	18.1	16.1
55°	11.6	12.3	22.0	12.9	12.3
57.5°	9.0	9.7	11.6	9.7	9.0
60°	7.1	7.1	8.4	7.7	7.1
62.5°	5.2	5.2	5.8	5.2	5.2
65°	3.9	3.9	3.9	3.9	3.9
67.5°	1.9	2.6	2.6	2.6	2.6
70°	1.9	1.3	1.3	1.3	1.9
72.5°	1.3	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)