

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: P781249

Luminaire Tested: LER4D40BD010-EC4DR3040509050-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781249
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-EC4DR3040509050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4119.7 lumens
Efficiency: N/A
Efficacy: 117.0 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

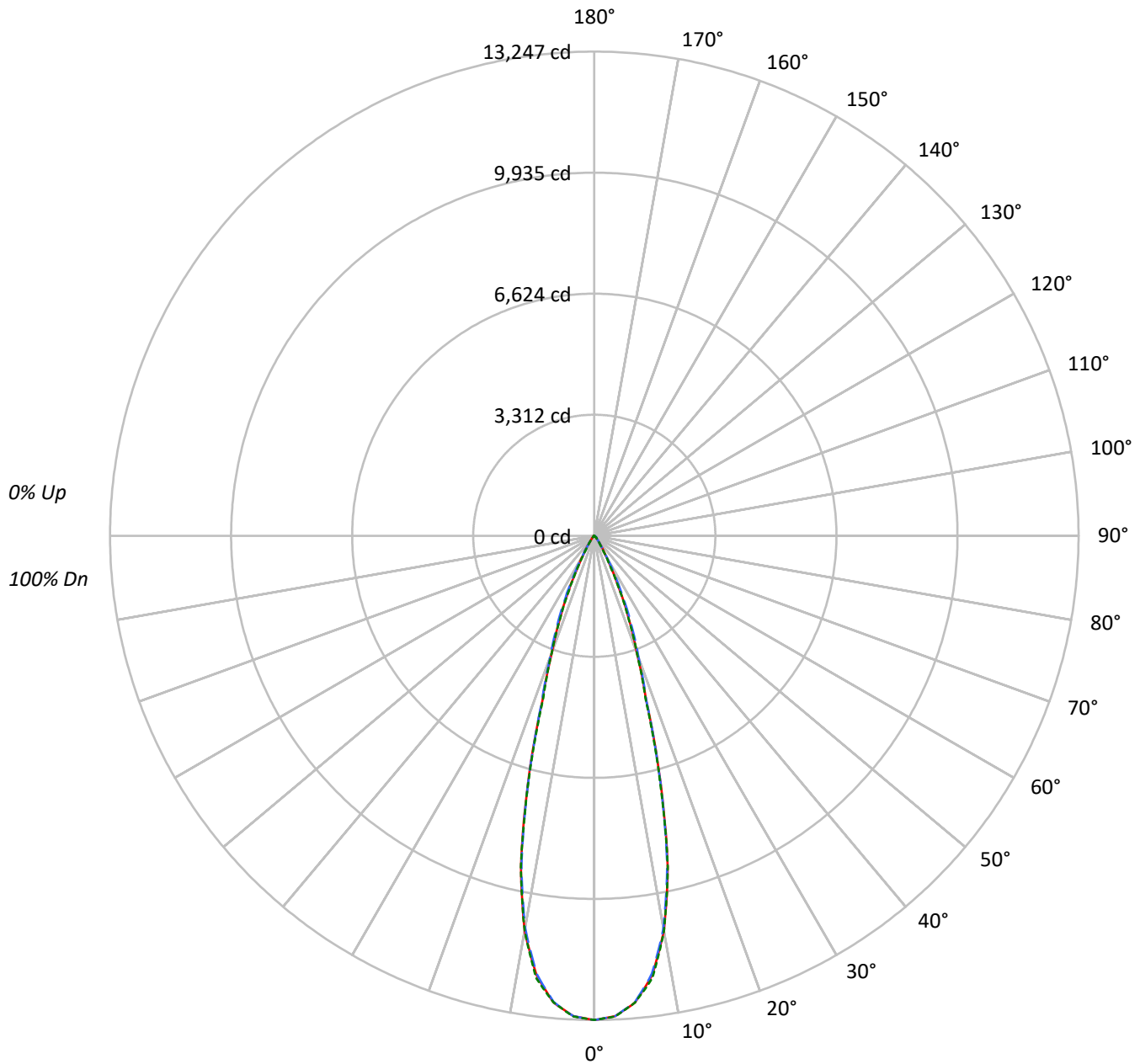


Downlight

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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					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°	1013947	1013947	1013947
5°	984835	983690	984889
10°	853015	846999	852813
15°	556551	553564	550782
20°	276746	287132	276379
25°	139404	157198	136549
30°	55815	60818	48629
35°	25893	24790	20782
40°	11181	12410	10532
45°	7881	9786	7956
50°	2715	7121	2870
55°	1561	2949	1655
60°	1102	1301	1102
65°	706	706	706
70°	448	291	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 9786 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1164.8	28.3
10°-20°	1876.0	45.5
20°-30°	810.7	19.7
30°-40°	184.8	4.5
40°-50°	63.4	1.5
50°-60°	15.5	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°	3851.5	93.5
0°-40°	4036.3	98.0
0°-60°	4115.2	99.9
0°-90°	4119.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4119.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13247	13247	13247	13247	13247	
5°	12817	12805	12802	12829	12818	1166
15°	7023	6939	6986	6963	6950	1881
25°	1651	1713	1861	1670	1617	790
35°	277	283	265	263	222	188
45°	73	90	90	90	74	52
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°	13246.7	13246.7	13246.7	13246.7	13246.7
2.5°	13158.9	13149.7	13155.0	13161.5	13164.1
5°	12817.4	12805.1	12802.5	12829.1	12818.1
7.5°	12128.7	12111.1	12084.4	12144.9	12201.5
10°	10974.9	10955.4	10897.5	10926.1	10972.3
12.5°	9271.6	9208.5	9207.2	9298.3	9285.9
15°	7023.3	6938.8	6985.6	6962.8	6950.5
17.5°	4723.0	4690.4	4752.9	4734.0	4652.7
20°	3397.5	3406.0	3525.0	3465.1	3393.0
22.5°	2479.2	2509.8	2650.9	2496.8	2440.2
25°	1650.6	1713.1	1861.3	1669.5	1616.8
27.5°	1015.2	1043.8	1194.1	1002.2	973.6
30°	631.5	617.2	688.1	590.5	550.2
32.5°	414.3	396.1	418.8	375.9	343.4
35°	277.1	282.9	265.3	263.4	222.4
37.5°	173.0	199.0	175.6	187.3	143.1
40°	111.9	144.4	124.2	137.2	105.4
42.5°	91.7	111.2	102.1	108.6	93.7
45°	72.8	90.4	90.4	90.4	73.5
47.5°	40.3	60.5	77.4	61.8	42.9
50°	22.8	30.6	59.8	31.9	24.1
52.5°	15.6	17.6	41.0	18.2	16.3
55°	11.7	12.4	22.1	13.0	12.4
57.5°	9.1	9.8	11.7	9.8	9.1
60°	7.2	7.2	8.5	7.8	7.2
62.5°	5.2	5.2	5.9	5.2	5.2
65°	3.9	3.9	3.9	3.9	3.9
67.5°	2.0	2.6	2.6	2.6	2.6
70°	2.0	1.3	1.3	1.3	2.0
72.5°	1.3	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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)