

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: P747547

Luminaire Tested: LD4D40BD010-EU4DR3040509027-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747547
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: LD4D40BD010-EU4DR3040509027-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3941.2 lumens
Efficiency: N/A
Efficacy: 112.0 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

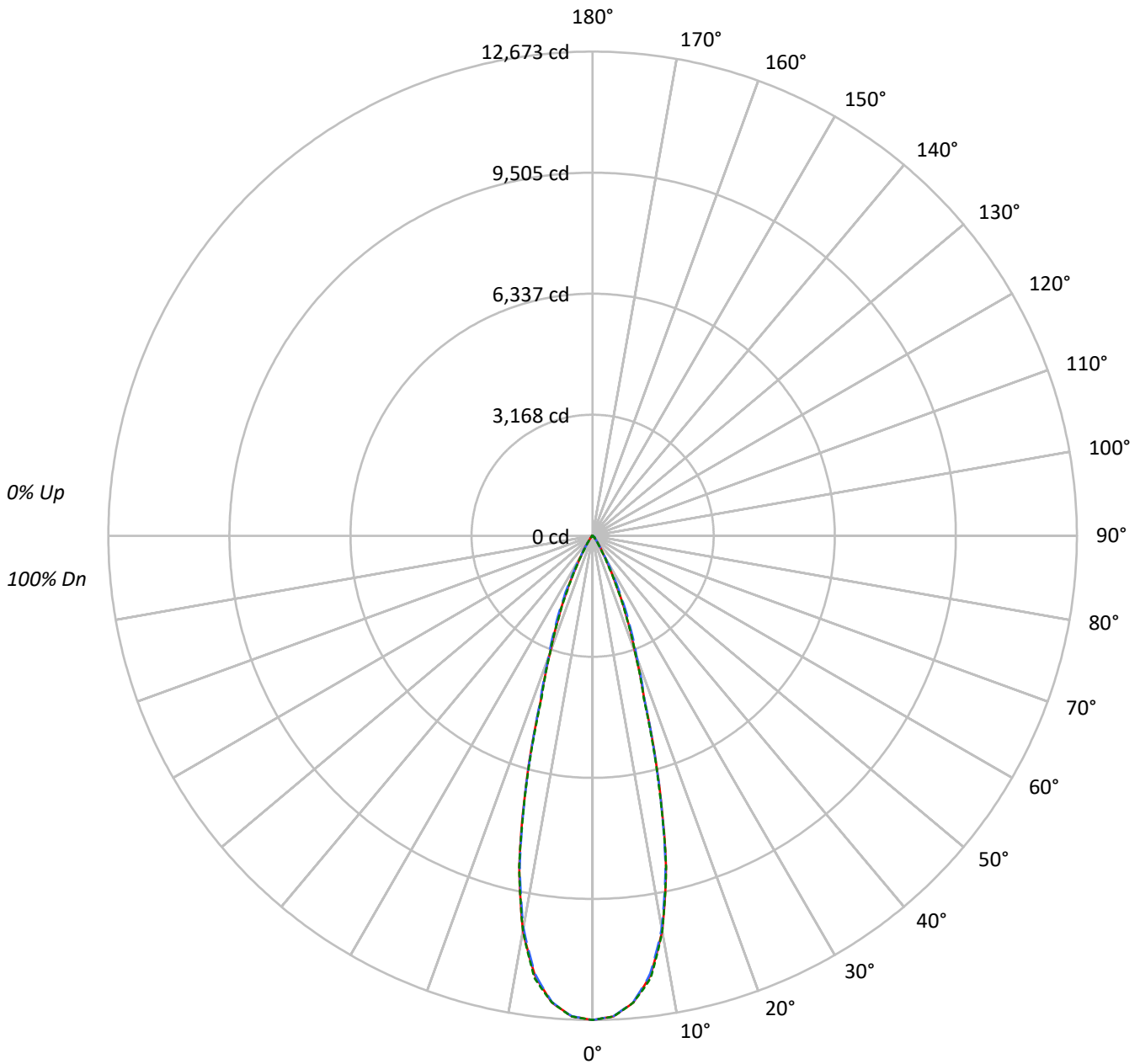


Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
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°	970034	970034	970034
5°	942191	941092	942237
10°	816081	810321	815886
15°	532453	529593	526930
20°	264764	274693	264405
25°	133365	150391	130637
30°	53402	58184	46526
35°	24772	23725	19885
40°	10691	11871	10072
45°	7545	9364	7610
50°	2596	6811	2739
55°	1495	2829	1575
60°	1041	1240	1041
65°	670	670	670
70°	425	269	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: 9364 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1114.4	28.3
10°-20°	1794.8	45.5
20°-30°	775.6	19.7
30°-40°	176.8	4.5
40°-50°	60.7	1.5
50°-60°	14.8	0.4
60°-70°	3.8	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°	3684.7	93.5
0°-40°	3861.5	98.0
0°-60°	3937.0	99.9
0°-90°	3941.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3941.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12673	12673	12673	12673	12673	
5°	12262	12250	12248	12274	12263	1115
15°	6719	6638	6683	6661	6650	1799
25°	1579	1639	1781	1597	1547	756
35°	265	271	254	252	213	180
45°	70	86	86	86	70	49
55°	11	12	21	12	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12673.0	12673.0	12673.0	12673.0	12673.0
2.5°	12589.0	12580.3	12585.3	12591.5	12594.0
5°	12262.4	12250.5	12248.1	12273.6	12263.0
7.5°	11603.5	11586.7	11561.1	11619.0	11673.1
10°	10499.7	10481.0	10425.6	10453.0	10497.2
12.5°	8870.1	8809.8	8808.5	8895.6	8883.8
15°	6719.2	6638.3	6683.1	6661.3	6649.5
17.5°	4518.4	4487.3	4547.1	4529.0	4451.2
20°	3250.4	3258.5	3372.3	3315.1	3246.0
22.5°	2371.8	2401.1	2536.1	2388.6	2334.5
25°	1579.1	1638.9	1780.7	1597.2	1546.8
27.5°	971.3	998.6	1142.4	958.8	931.4
30°	604.2	590.5	658.3	565.0	526.4
32.5°	396.3	378.9	400.7	359.6	328.5
35°	265.1	270.7	253.9	252.0	212.8
37.5°	165.5	190.4	168.0	179.2	136.9
40°	107.0	138.1	118.8	131.3	100.8
42.5°	87.7	106.4	97.7	103.9	89.6
45°	69.7	86.5	86.5	86.5	70.3
47.5°	38.6	57.9	74.0	59.1	41.1
50°	21.8	29.2	57.2	30.5	23.0
52.5°	14.9	16.8	39.2	17.4	15.6
55°	11.2	11.8	21.2	12.4	11.8
57.5°	8.7	9.3	11.2	9.3	8.7
60°	6.8	6.8	8.1	7.5	6.8
62.5°	5.0	5.0	5.6	5.0	5.0
65°	3.7	3.7	3.7	3.7	3.7
67.5°	1.9	2.5	2.5	2.5	2.5
70°	1.9	1.2	1.2	1.2	1.9
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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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