

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



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: P747582

Luminaire Tested: LD4D40BD010-EU4DR3040509040-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747582
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-EU4DR3040509040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 4080.2 lumens
Efficiency: N/A
Efficacy: 115.9 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

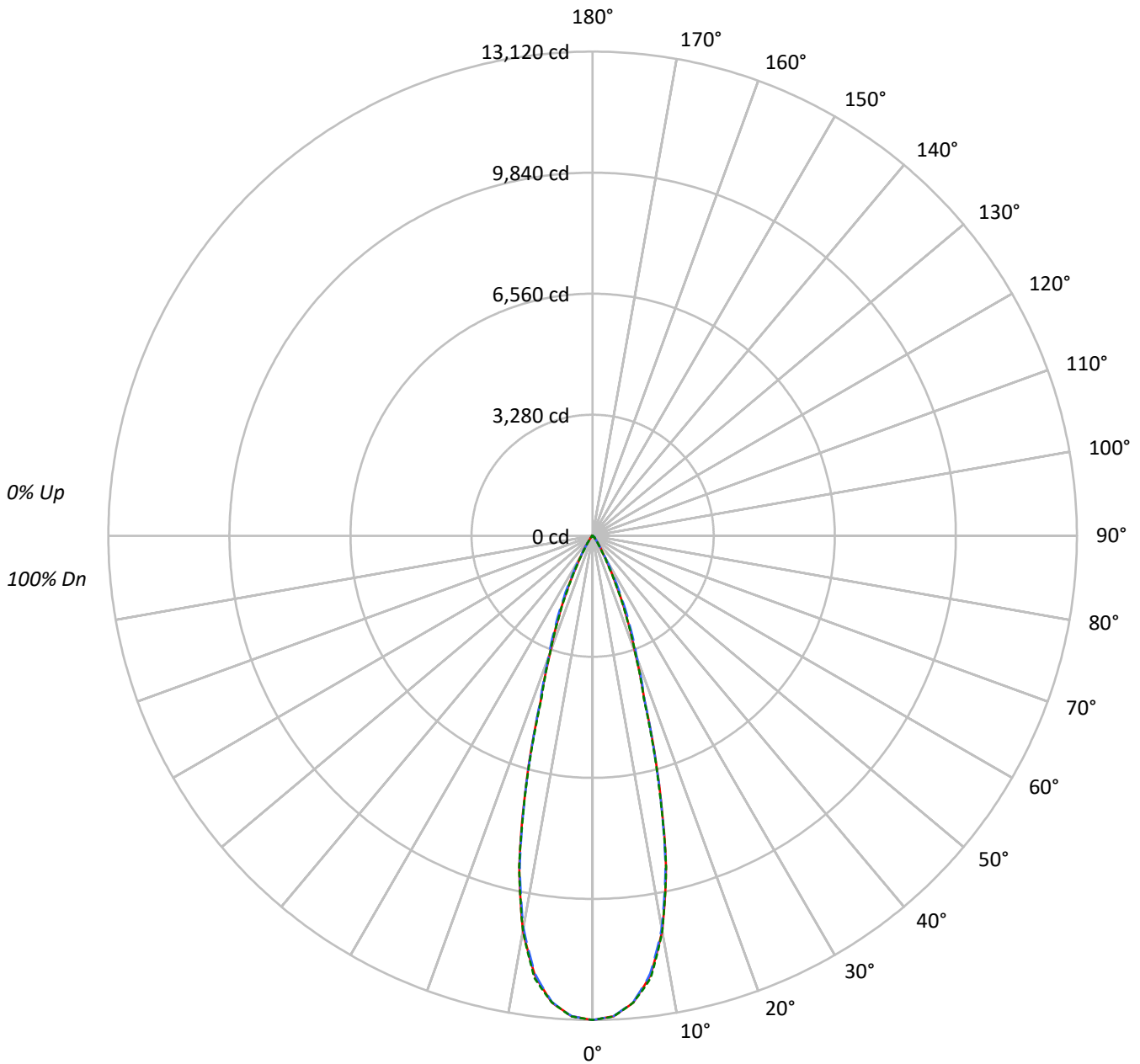


Downlight

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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	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°	1004234	1004234	1004234
5°	975407	974270	975453
10°	844847	838893	844652
15°	551226	548262	545505
20°	274099	284378	273732
25°	138069	155695	135240
30°	55285	60234	48161
35°	25641	24557	20585
40°	11071	12290	10432
45°	7805	9688	7881
50°	2679	7061	2834
55°	1548	2923	1628
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: 9688 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1153.7	28.3
10°-20°	1858.0	45.5
20°-30°	802.9	19.7
30°-40°	183.0	4.5
40°-50°	62.8	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°	3814.6	93.5
0°-40°	3997.6	98.0
0°-60°	4075.8	99.9
0°-90°	4080.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4080.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13120	13120	13120	13120	13120	
5°	12695	12682	12680	12706	12695	1155
15°	6956	6872	6919	6896	6884	1863
25°	1635	1697	1844	1654	1601	783
35°	274	280	263	261	220	186
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°	13119.8	13119.8	13119.8	13119.8	13119.8
2.5°	13032.9	13023.8	13029.0	13035.4	13038.0
5°	12694.7	12682.5	12679.9	12706.3	12695.3
7.5°	12012.5	11995.2	11968.7	12028.7	12084.7
10°	10869.8	10850.5	10793.2	10821.5	10867.3
12.5°	9182.8	9120.4	9119.1	9209.3	9197.0
15°	6956.1	6872.3	6918.7	6896.2	6883.9
17.5°	4677.7	4645.5	4707.4	4688.7	4608.2
20°	3365.0	3373.4	3491.2	3432.0	3360.5
22.5°	2455.5	2485.7	2625.5	2472.8	2416.8
25°	1634.8	1696.7	1843.5	1653.5	1601.3
27.5°	1005.5	1033.8	1182.6	992.6	964.3
30°	625.5	611.3	681.5	584.9	544.9
32.5°	410.3	392.3	414.8	372.3	340.1
35°	274.4	280.2	262.8	260.9	220.3
37.5°	171.3	197.1	173.9	185.5	141.7
40°	110.8	143.0	123.0	135.9	104.4
42.5°	90.8	110.1	101.1	107.6	92.8
45°	72.1	89.5	89.5	89.5	72.8
47.5°	39.9	59.9	76.7	61.2	42.5
50°	22.5	30.3	59.3	31.6	23.8
52.5°	15.5	17.4	40.6	18.0	16.1
55°	11.6	12.2	21.9	12.9	12.2
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

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Scaled Data Report





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

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