

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: P743927

Luminaire Tested: LD4D20D010-EU4DR1515309050-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR1515309050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1865.8 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 23.1
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



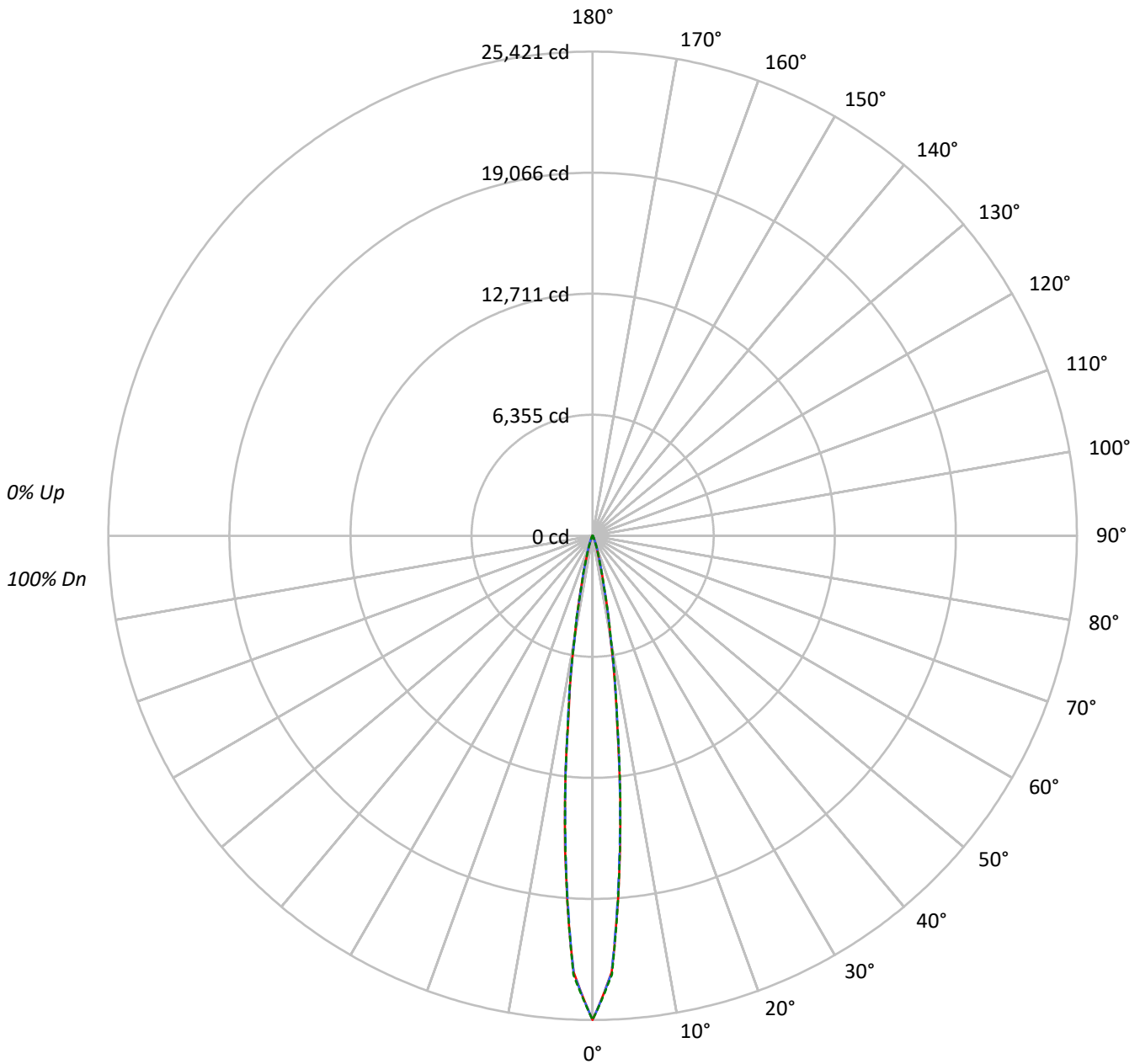
Downlight



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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	87	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2860370	2860370	2860370
5°	1680881	1659122	1672243
10°	501668	505177	512912
15°	124787	127211	123293
20°	37336	43235	38129
25°	13165	16764	13329
30°	4837	6365	4912
35°	2425	2738	2346
40°	1527	1683	1527
45°	1127	1204	1127
50°	897	897	897
55°	752	752	752
60°	604	604	604
65°	464	464	464
70°	395	395	395
75°	242	242	325
80°	173	173	173
85°	91	91	91

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1204 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1210.1	64.9
10°-20°	497.7	26.7
20°-30°	98.9	5.3
30°-40°	24.7	1.3
40°-50°	13.0	0.7
50°-60°	9.6	0.5
60°-70°	6.8	0.4
70°-80°	3.9	0.2
80°-90°	1.2	0.1
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°	1806.7	96.8
0°-40°	1831.4	98.2
0°-60°	1854.0	99.4
0°-90°	1865.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1865.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25421	25421	25421	25421	25421	
5°	16539	16369	16325	16438	16454	1208
15°	1437	1464	1465	1439	1420	493
25°	169	192	215	190	171	89
35°	33	36	38	36	32	23
45°	16	16	17	16	16	13
55°	11	11	11	11	11	10
65°	6	6	6	6	6	7
75°	3	3	3	3	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	25421.0	25421.0	25421.0	25421.0	25421.0
2.5°	22930.7	22950.1	22957.6	22980.2	23064.2
5°	16539.4	16369.4	16325.3	16438.3	16454.4
7.5°	9797.3	9831.8	9957.7	9985.7	9884.5
10°	5376.5	5420.6	5414.1	5452.9	5497.0
12.5°	2749.6	2715.1	2704.4	2748.5	2687.2
15°	1436.7	1463.6	1464.6	1438.8	1419.5
17.5°	772.7	803.9	855.5	813.6	749.0
20°	456.3	484.3	528.4	494.0	466.0
22.5°	282.0	304.6	335.8	308.9	286.3
25°	169.0	191.6	215.2	190.5	171.1
27.5°	100.1	119.5	134.5	118.4	99.0
30°	64.6	75.3	85.0	74.3	65.6
32.5°	45.2	49.5	53.8	49.5	45.2
35°	33.4	35.5	37.7	35.5	32.3
37.5°	25.8	28.0	29.1	26.9	24.8
40°	21.5	22.6	23.7	22.6	21.5
42.5°	18.3	19.4	19.4	19.4	18.3
45°	16.1	16.1	17.2	16.1	16.1
47.5°	14.0	14.0	15.1	14.0	14.0
50°	12.9	12.9	12.9	12.9	12.9
52.5°	11.8	11.8	11.8	11.8	11.8
55°	10.8	10.8	10.8	10.8	10.8
57.5°	9.7	9.7	9.7	9.7	9.7
60°	8.6	8.6	8.6	8.6	8.6
62.5°	7.5	7.5	7.5	7.5	7.5
65°	6.5	6.5	6.5	6.5	6.5
67.5°	6.5	6.5	6.5	6.5	6.5
70°	5.4	5.4	5.4	5.4	5.4
72.5°	4.3	4.3	4.3	4.3	4.3
75°	3.2	3.2	3.2	3.2	4.3
77.5°	3.2	3.2	3.2	3.2	3.2
80°	2.2	2.2	2.2	2.2	2.2
82.5°	2.2	2.2	2.2	2.2	2.2
85°	1.1	1.1	1.1	1.1	1.1
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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