

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: P743862

Luminaire Tested: LD4D20D010-EU4DR1515309024-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743862
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-EU4DR1515309024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1518.4 lumens
Efficiency: N/A
Efficacy: 65.7 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

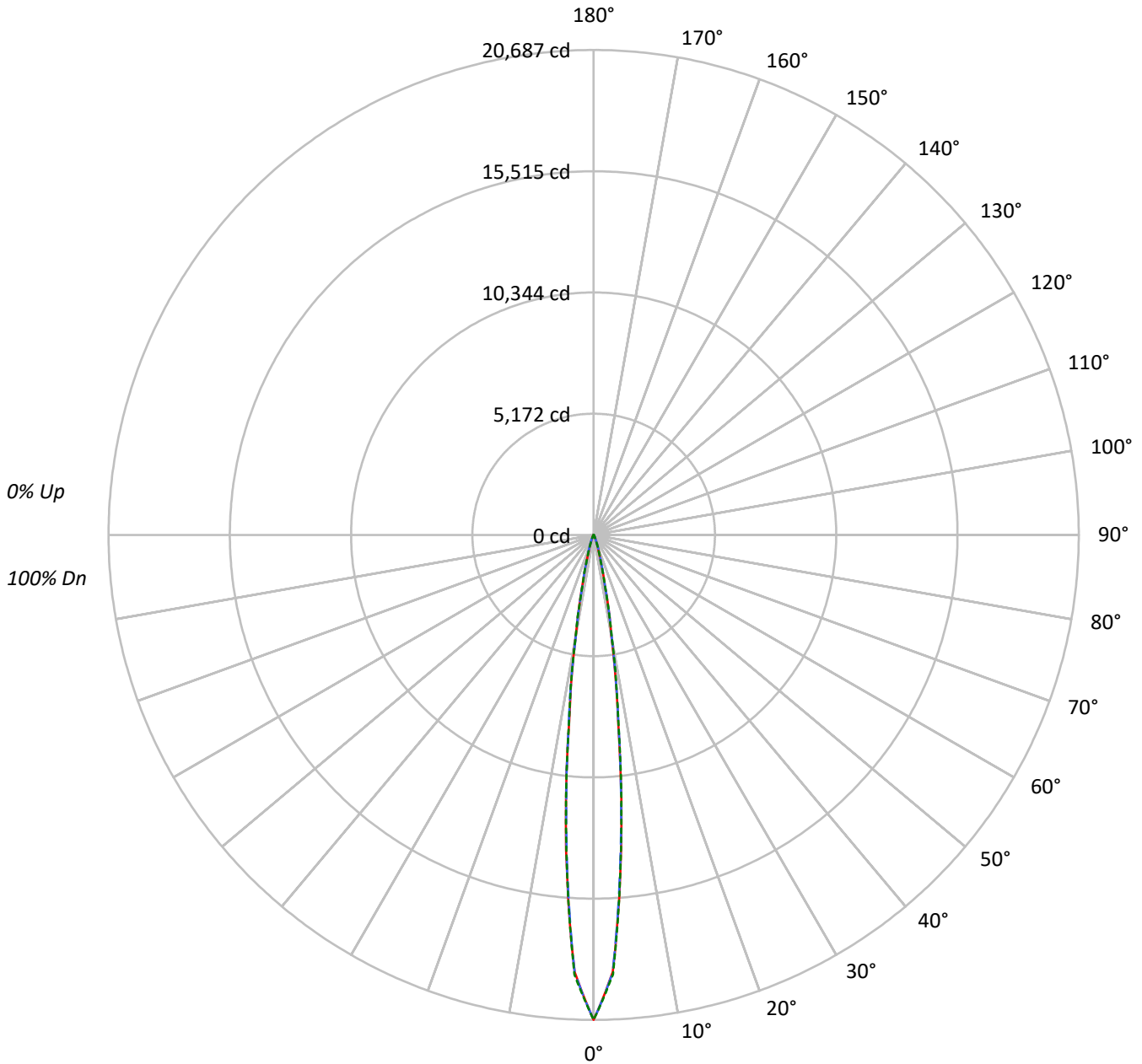


Downlight



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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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	87	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2327711	2327711	2327711
5°	1367874	1350160	1360842
10°	408249	411104	417402
15°	101544	103525	100328
20°	30381	35184	31027
25°	10711	13648	10844
30°	3931	5182	3999
35°	1968	2229	1910
40°	1243	1371	1243
45°	917	980	917
50°	730	730	730
55°	613	613	613
60°	491	491	491
65°	378	378	378
70°	322	322	322
75°	197	197	265
80°	142	142	142
85°	75	75	75

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 980 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	984.7	64.9
10°-20°	405.1	26.7
20°-30°	80.5	5.3
30°-40°	20.1	1.3
40°-50°	10.6	0.7
50°-60°	7.8	0.5
60°-70°	5.5	0.4
70°-80°	3.1	0.2
80°-90°	1.0	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°	1470.3	96.8
0°-40°	1490.3	98.2
0°-60°	1508.7	99.4
0°-90°	1518.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1518.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20687	20687	20687	20687	20687	
5°	13460	13321	13285	13377	13390	983
15°	1169	1191	1192	1171	1155	401
25°	138	156	175	155	139	72
35°	27	29	31	29	26	18
45°	13	13	14	13	13	10
55°	9	9	9	9	9	8
65°	5	5	5	5	5	6
75°	3	3	3	3	4	3
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°	20687.1	20687.1	20687.1	20687.1	20687.1
2.5°	18660.6	18676.4	18682.5	18700.9	18769.2
5°	13459.5	13321.1	13285.2	13377.2	13390.3
7.5°	7972.9	8000.9	8103.4	8126.1	8043.8
10°	4375.3	4411.2	4405.9	4437.5	4473.4
12.5°	2237.6	2209.5	2200.8	2236.7	2186.8
15°	1169.1	1191.0	1191.9	1170.9	1155.1
17.5°	628.8	654.2	696.2	662.1	609.5
20°	371.3	394.1	430.0	402.0	379.2
22.5°	229.4	247.8	273.2	251.3	233.0
25°	137.5	155.9	175.2	155.0	139.2
27.5°	81.4	97.2	109.5	96.3	80.6
30°	52.5	61.3	69.2	60.4	53.4
32.5°	36.8	40.3	43.8	40.3	36.8
35°	27.1	28.9	30.7	28.9	26.3
37.5°	21.0	22.8	23.6	21.9	20.1
40°	17.5	18.4	19.3	18.4	17.5
42.5°	14.9	15.8	15.8	15.8	14.9
45°	13.1	13.1	14.0	13.1	13.1
47.5°	11.4	11.4	12.3	11.4	11.4
50°	10.5	10.5	10.5	10.5	10.5
52.5°	9.6	9.6	9.6	9.6	9.6
55°	8.8	8.8	8.8	8.8	8.8
57.5°	7.9	7.9	7.9	7.9	7.9
60°	7.0	7.0	7.0	7.0	7.0
62.5°	6.1	6.1	6.1	6.1	6.1
65°	5.3	5.3	5.3	5.3	5.3
67.5°	5.3	5.3	5.3	5.3	5.3
70°	4.4	4.4	4.4	4.4	4.4
72.5°	3.5	3.5	3.5	3.5	3.5
75°	2.6	2.6	2.6	2.6	3.5
77.5°	2.6	2.6	2.6	2.6	2.6
80°	1.8	1.8	1.8	1.8	1.8
82.5°	1.8	1.8	1.8	1.8	1.8
85°	0.9	0.9	0.9	0.9	0.9
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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