

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: P743904

Luminaire Tested: LD4D20D010-EU4DR1515309035-4LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743904
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-EU4DR1515309035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1904.2 lumens
Efficiency: N/A
Efficacy: 82.4 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



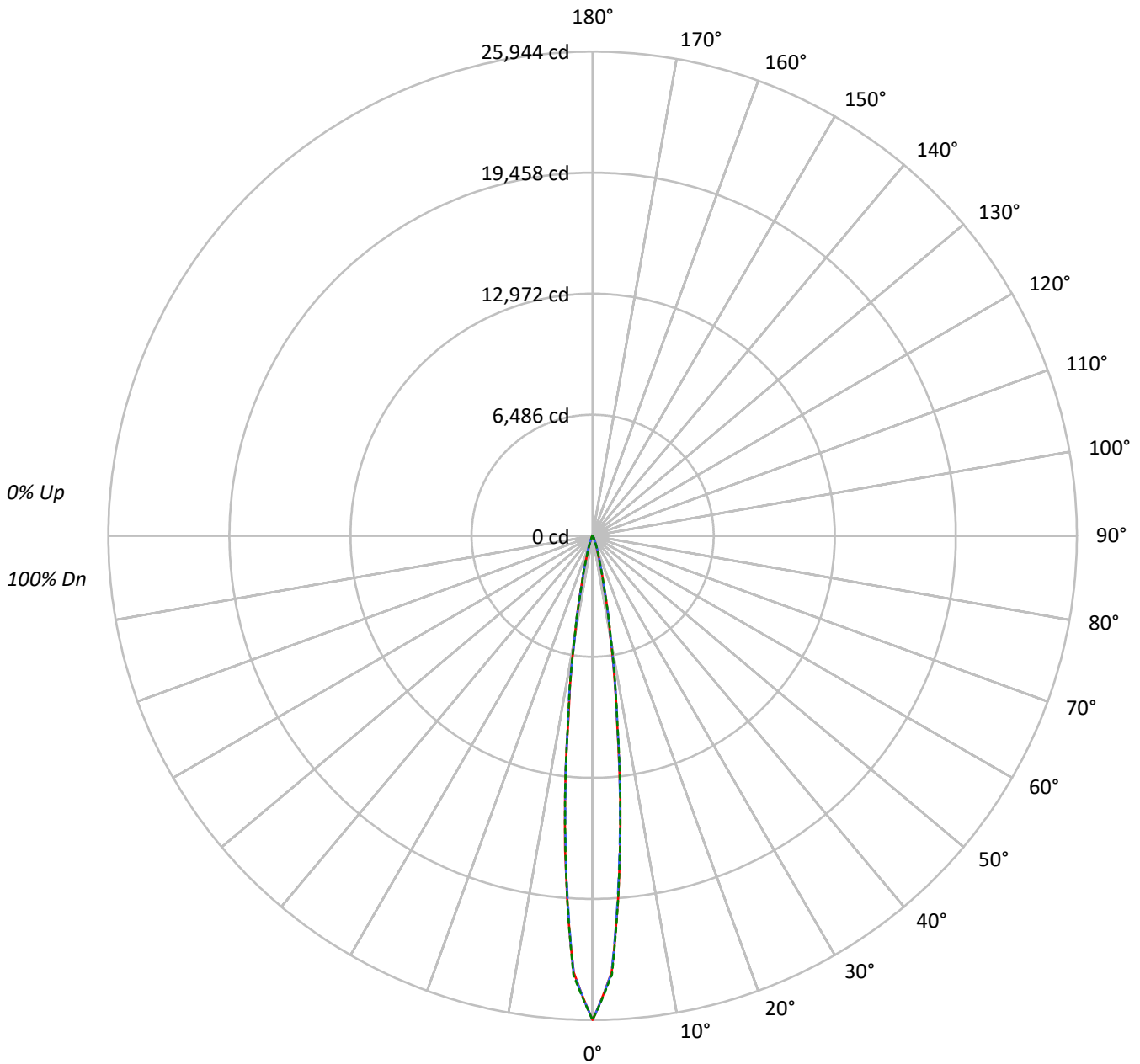
Downlight



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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°	2919240	2919240	2919240
5°	1715486	1693270	1706664
10°	511988	515580	523474
15°	127349	129834	125830
20°	38105	44127	38915
25°	13430	17115	13601
30°	4935	6500	5017
35°	2469	2789	2389
40°	1562	1719	1562
45°	1155	1232	1155
50°	918	918	918
55°	766	766	766
60°	618	618	618
65°	471	471	471
70°	402	402	402
75°	249	249	333
80°	173	173	173
85°	91	91	91

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1232 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1235.0	64.9
10°-20°	508.0	26.7
20°-30°	100.9	5.3
30°-40°	25.2	1.3
40°-50°	13.3	0.7
50°-60°	9.8	0.5
60°-70°	6.9	0.4
70°-80°	4.0	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°	1843.9	96.8
0°-40°	1869.1	98.2
0°-60°	1892.2	99.4
0°-90°	1904.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1904.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25944	25944	25944	25944	25944	
5°	16880	16706	16661	16777	16793	1233
15°	1466	1494	1495	1468	1449	503
25°	172	196	220	194	175	91
35°	34	36	38	36	33	23
45°	16	16	18	16	16	13
55°	11	11	11	11	11	10
65°	7	7	7	7	7	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°	25944.2	25944.2	25944.2	25944.2	25944.2
2.5°	23402.7	23422.5	23430.2	23453.3	23538.9
5°	16879.9	16706.4	16661.3	16776.6	16793.1
7.5°	9999.0	10034.1	10162.6	10191.2	10088.0
10°	5487.1	5532.2	5525.6	5565.1	5610.2
12.5°	2806.2	2771.0	2760.0	2805.1	2742.5
15°	1466.2	1493.7	1494.8	1468.4	1448.7
17.5°	788.6	820.4	873.2	830.3	764.4
20°	465.7	494.2	539.3	504.1	475.6
22.5°	287.8	310.8	342.7	315.2	292.1
25°	172.4	195.5	219.7	194.4	174.6
27.5°	102.1	121.9	137.3	120.8	101.0
30°	65.9	76.9	86.8	75.8	67.0
32.5°	46.1	50.5	54.9	50.5	46.1
35°	34.0	36.2	38.4	36.2	32.9
37.5°	26.4	28.6	29.7	27.5	25.3
40°	22.0	23.1	24.2	23.1	22.0
42.5°	18.7	19.8	19.8	19.8	18.7
45°	16.5	16.5	17.6	16.5	16.5
47.5°	14.3	14.3	15.4	14.3	14.3
50°	13.2	13.2	13.2	13.2	13.2
52.5°	12.1	12.1	12.1	12.1	12.1
55°	11.0	11.0	11.0	11.0	11.0
57.5°	9.9	9.9	9.9	9.9	9.9
60°	8.8	8.8	8.8	8.8	8.8
62.5°	7.7	7.7	7.7	7.7	7.7
65°	6.6	6.6	6.6	6.6	6.6
67.5°	6.6	6.6	6.6	6.6	6.6
70°	5.5	5.5	5.5	5.5	5.5
72.5°	4.4	4.4	4.4	4.4	4.4
75°	3.3	3.3	3.3	3.3	4.4
77.5°	3.3	3.3	3.3	3.3	3.3
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

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Scaled Data Report



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Scaled Data Report





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

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