

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: P743905

Luminaire Tested: LD4D20D010-EU4DR1515309035-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743905
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-EU4DR1515309035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1942.3 lumens
Efficiency: N/A
Efficacy: 84.1 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

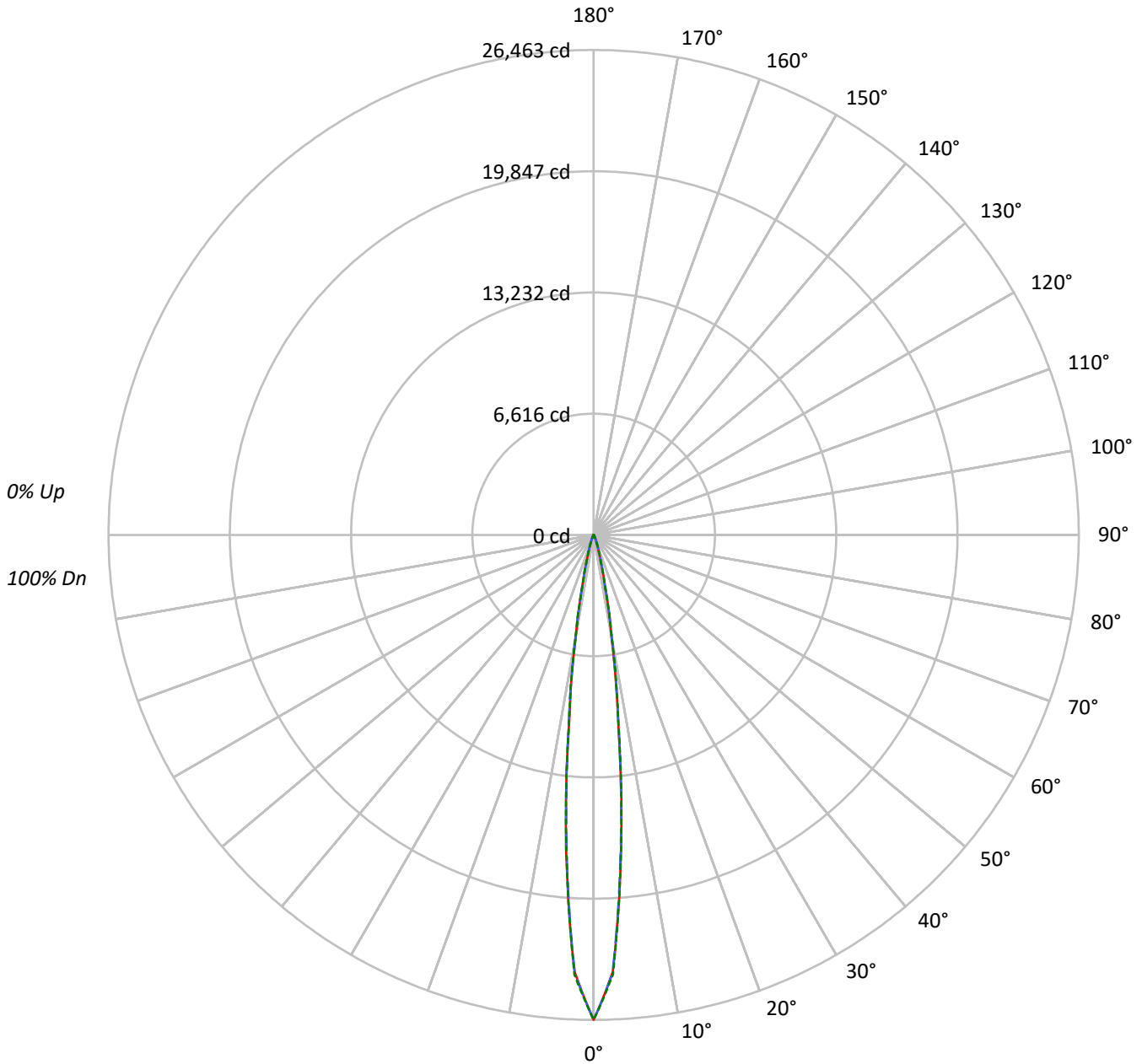


Downlight



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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	88	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°	2977660	2977660	2977660
5°	1749816	1727153	1740822
10°	522233	525900	533943
15°	129903	132431	128348
20°	38866	45011	39692
25°	13703	17458	13874
30°	5032	6627	5114
35°	2520	2847	2440
40°	1591	1747	1591
45°	1176	1253	1176
50°	932	932	932
55°	780	780	780
60°	632	632	632
65°	478	478	478
70°	410	410	410
75°	257	257	340
80°	173	173	173
85°	91	91	91

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1253 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1259.7	64.9
10°-20°	518.2	26.7
20°-30°	102.9	5.3
30°-40°	25.7	1.3
40°-50°	13.5	0.7
50°-60°	10.0	0.5
60°-70°	7.1	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°	1880.8	96.8
0°-40°	1906.5	98.2
0°-60°	1930.0	99.4
0°-90°	1942.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1942.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26463	26463	26463	26463	26463	
5°	17218	17041	16995	17112	17129	1257
15°	1496	1524	1525	1498	1478	513
25°	176	199	224	198	178	92
35°	35	37	39	37	34	24
45°	17	17	18	17	17	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°	26463.4	26463.4	26463.4	26463.4	26463.4
2.5°	23871.0	23891.2	23899.0	23922.6	24010.0
5°	17217.7	17040.7	16994.7	17112.4	17129.2
7.5°	10199.1	10234.9	10366.0	10395.1	10289.8
10°	5596.9	5642.9	5636.2	5676.5	5722.4
12.5°	2862.3	2826.5	2815.3	2861.2	2797.4
15°	1495.6	1523.6	1524.7	1497.8	1477.7
17.5°	804.4	836.9	890.6	846.9	779.7
20°	475.0	504.1	550.1	514.2	485.1
22.5°	293.5	317.0	349.5	321.5	298.0
25°	175.9	199.4	224.1	198.3	178.1
27.5°	104.2	124.4	140.0	123.2	103.1
30°	67.2	78.4	88.5	77.3	68.3
32.5°	47.1	51.5	56.0	51.5	47.1
35°	34.7	37.0	39.2	37.0	33.6
37.5°	26.9	29.1	30.2	28.0	25.8
40°	22.4	23.5	24.6	23.5	22.4
42.5°	19.0	20.2	20.2	20.2	19.0
45°	16.8	16.8	17.9	16.8	16.8
47.5°	14.6	14.6	15.7	14.6	14.6
50°	13.4	13.4	13.4	13.4	13.4
52.5°	12.3	12.3	12.3	12.3	12.3
55°	11.2	11.2	11.2	11.2	11.2
57.5°	10.1	10.1	10.1	10.1	10.1
60°	9.0	9.0	9.0	9.0	9.0
62.5°	7.8	7.8	7.8	7.8	7.8
65°	6.7	6.7	6.7	6.7	6.7
67.5°	6.7	6.7	6.7	6.7	6.7
70°	5.6	5.6	5.6	5.6	5.6
72.5°	4.5	4.5	4.5	4.5	4.5
75°	3.4	3.4	3.4	3.4	4.5
77.5°	3.4	3.4	3.4	3.4	3.4
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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