

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: P743909

Luminaire Tested: LD4D20D010-EU4DR1515309035-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743909
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-EU4DR1515309035-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF 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: 1699.3 lumens
Efficiency: N/A
Efficacy: 73.6 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 (Ain): 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



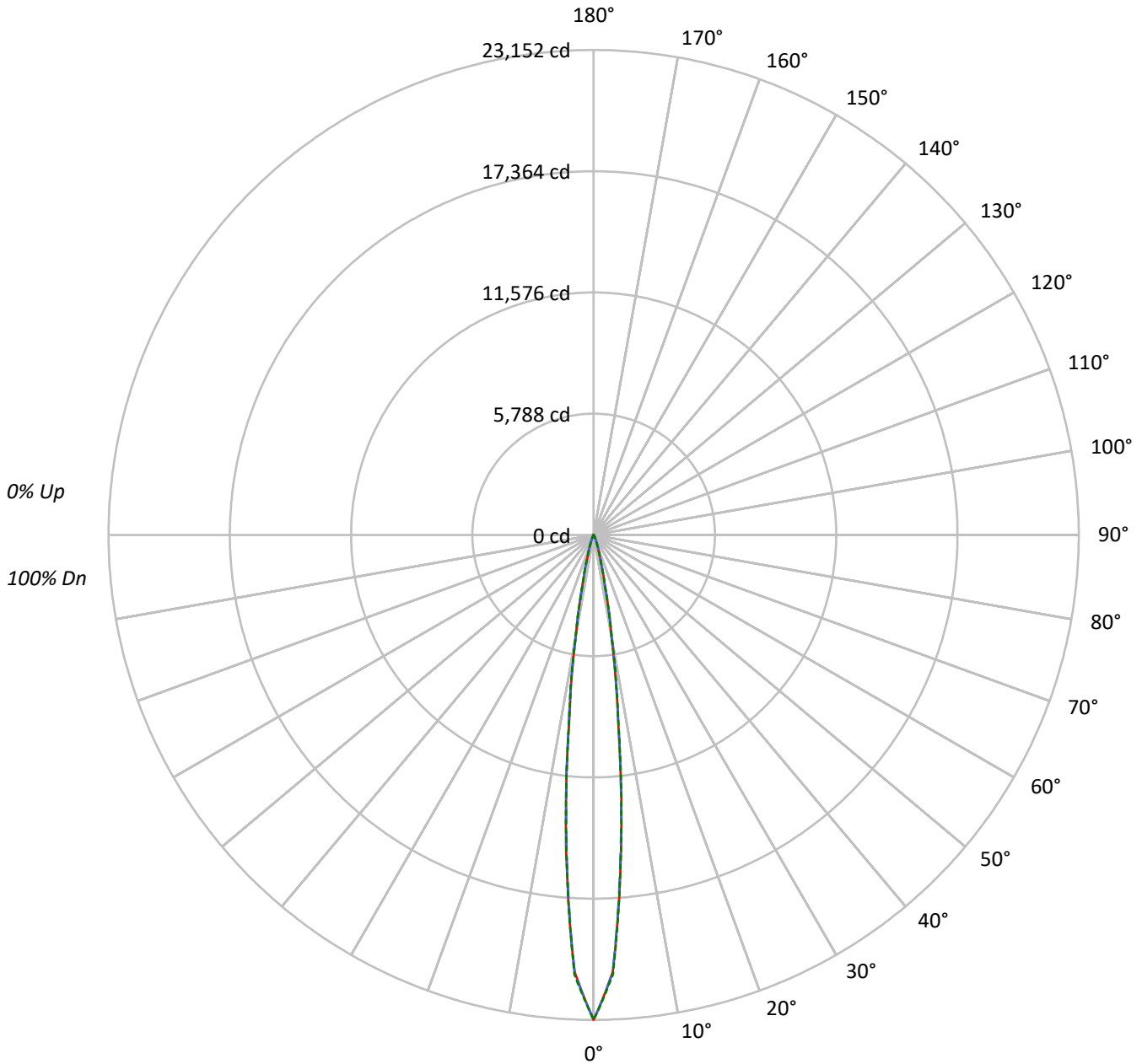
Downlight



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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°	2605062	2605062	2605062
5°	1530857	1511029	1522980
10°	456890	460090	467135
15°	113643	115858	112289
20°	34006	39373	34726
25°	11989	15269	12137
30°	4403	5796	4478
35°	2208	2491	2135
40°	1392	1534	1392
45°	1029	1099	1029
50°	821	821	821
55°	682	682	682
60°	548	548	548
65°	421	421	421
70°	358	358	358
75°	219	219	295
80°	158	158	158
85°	83	83	83

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1099 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1102.1	64.9
10°-20°	453.3	26.7
20°-30°	90.0	5.3
30°-40°	22.5	1.3
40°-50°	11.8	0.7
50°-60°	8.8	0.5
60°-70°	6.2	0.4
70°-80°	3.5	0.2
80°-90°	1.1	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°	1645.4	96.8
0°-40°	1667.9	98.2
0°-60°	1688.5	99.4
0°-90°	1699.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1699.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23152	23152	23152	23152	23152	
5°	15063	14908	14868	14971	14986	1100
15°	1308	1333	1334	1310	1293	449
25°	154	174	196	174	156	81
35°	30	32	34	32	29	21
45°	15	15	16	15	15	11
55°	10	10	10	10	10	9
65°	6	6	6	6	6	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°	23152.0	23152.0	23152.0	23152.0	23152.0
2.5°	20884.0	20901.6	20908.5	20929.1	21005.5
5°	15063.2	14908.3	14868.1	14971.0	14985.7
7.5°	8922.8	8954.2	9068.9	9094.4	9002.2
10°	4896.6	4936.8	4930.9	4966.2	5006.4
12.5°	2504.2	2472.8	2463.0	2503.2	2447.3
15°	1308.4	1332.9	1333.9	1310.4	1292.8
17.5°	703.7	732.1	779.2	741.0	682.2
20°	415.6	441.0	481.2	449.9	424.4
22.5°	256.8	277.4	305.8	281.3	260.7
25°	153.9	174.5	196.0	173.5	155.8
27.5°	91.1	108.8	122.5	107.8	90.2
30°	58.8	68.6	77.4	67.6	59.8
32.5°	41.2	45.1	49.0	45.1	41.2
35°	30.4	32.3	34.3	32.3	29.4
37.5°	23.5	25.5	26.5	24.5	22.5
40°	19.6	20.6	21.6	20.6	19.6
42.5°	16.7	17.6	17.6	17.6	16.7
45°	14.7	14.7	15.7	14.7	14.7
47.5°	12.7	12.7	13.7	12.7	12.7
50°	11.8	11.8	11.8	11.8	11.8
52.5°	10.8	10.8	10.8	10.8	10.8
55°	9.8	9.8	9.8	9.8	9.8
57.5°	8.8	8.8	8.8	8.8	8.8
60°	7.8	7.8	7.8	7.8	7.8
62.5°	6.9	6.9	6.9	6.9	6.9
65°	5.9	5.9	5.9	5.9	5.9
67.5°	5.9	5.9	5.9	5.9	5.9
70°	4.9	4.9	4.9	4.9	4.9
72.5°	3.9	3.9	3.9	3.9	3.9
75°	2.9	2.9	2.9	2.9	2.9
77.5°	2.9	2.9	2.9	2.9	2.9
80°	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0
85°	1.0	1.0	1.0	1.0	1.0
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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