

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: P743883

Luminaire Tested: LD4D20D010-EU4DR1515309027-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743883
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-EU4DR1515309027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1558.9 lumens
Efficiency: N/A
Efficacy: 67.5 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



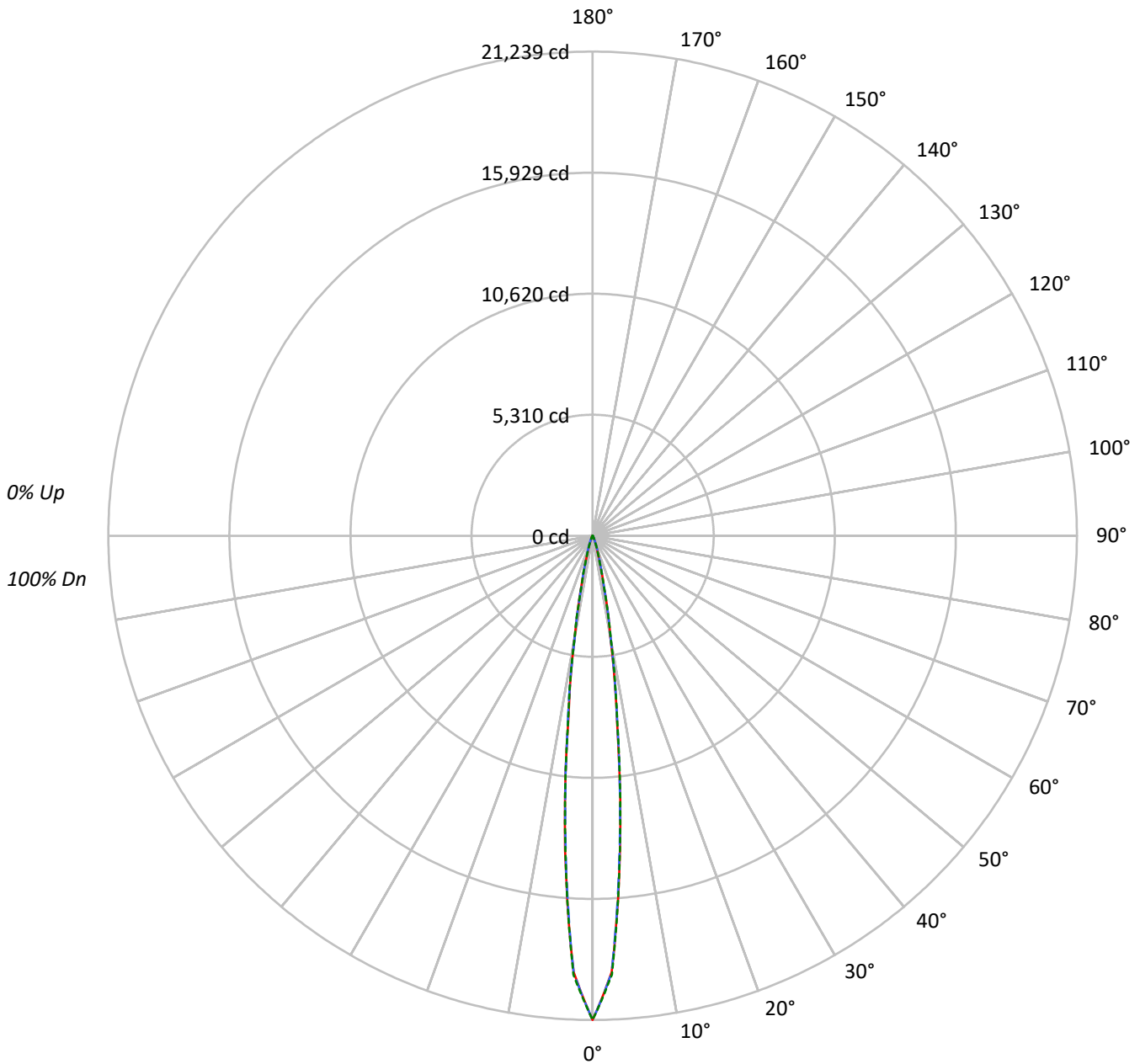
Downlight



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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	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°	2389856	2389856	2389856
5°	1404389	1386208	1397174
10°	419147	422086	428543
15°	104254	106287	103012
20°	31191	36125	31854
25°	11000	14007	11140
30°	4036	5317	4103
35°	2026	2288	1961
40°	1278	1406	1278
45°	945	1008	945
50°	751	751	751
55°	626	626	626
60°	506	506	506
65°	385	385	385
70°	329	329	329
75°	204	204	272
80°	142	142	142
85°	75	75	75

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1008 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1011.0	64.9
10°-20°	415.9	26.7
20°-30°	82.6	5.3
30°-40°	20.6	1.3
40°-50°	10.8	0.7
50°-60°	8.0	0.5
60°-70°	5.7	0.4
70°-80°	3.2	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°	1509.5	96.8
0°-40°	1530.1	98.2
0°-60°	1549.0	99.4
0°-90°	1558.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1558.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21239	21239	21239	21239	21239	
5°	13819	13677	13640	13734	13748	1009
15°	1200	1223	1224	1202	1186	412
25°	141	160	180	159	143	74
35°	28	30	32	30	27	19
45°	14	14	14	14	14	11
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°	21239.4	21239.4	21239.4	21239.4	21239.4
2.5°	19158.8	19175.0	19181.3	19200.2	19270.3
5°	13818.8	13676.8	13639.9	13734.3	13747.8
7.5°	8185.7	8214.5	8319.7	8343.1	8258.6
10°	4492.1	4529.0	4523.6	4555.9	4592.8
12.5°	2297.3	2268.5	2259.5	2296.4	2245.1
15°	1200.3	1222.8	1223.7	1202.1	1186.0
17.5°	645.6	671.7	714.8	679.7	625.8
20°	381.2	404.6	441.5	412.7	389.3
22.5°	235.6	254.5	280.5	258.1	239.2
25°	141.2	160.0	179.8	159.1	143.0
27.5°	83.6	99.8	112.4	98.9	82.7
30°	53.9	62.9	71.0	62.0	54.8
32.5°	37.8	41.4	45.0	41.4	37.8
35°	27.9	29.7	31.5	29.7	27.0
37.5°	21.6	23.4	24.3	22.5	20.7
40°	18.0	18.9	19.8	18.9	18.0
42.5°	15.3	16.2	16.2	16.2	15.3
45°	13.5	13.5	14.4	13.5	13.5
47.5°	11.7	11.7	12.6	11.7	11.7
50°	10.8	10.8	10.8	10.8	10.8
52.5°	9.9	9.9	9.9	9.9	9.9
55°	9.0	9.0	9.0	9.0	9.0
57.5°	8.1	8.1	8.1	8.1	8.1
60°	7.2	7.2	7.2	7.2	7.2
62.5°	6.3	6.3	6.3	6.3	6.3
65°	5.4	5.4	5.4	5.4	5.4
67.5°	5.4	5.4	5.4	5.4	5.4
70°	4.5	4.5	4.5	4.5	4.5
72.5°	3.6	3.6	3.6	3.6	3.6
75°	2.7	2.7	2.7	2.7	3.6
77.5°	2.7	2.7	2.7	2.7	2.7
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

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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