

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: P738845

Luminaire Tested: LD4D02D010-EU4DR150210IC9027-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P738845
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: LD4D02D010-EU4DR150210IC9027-4LBSQW1B
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: 294.6 lumens
Efficiency: N/A
Efficacy: 57.8 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): 5.1
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

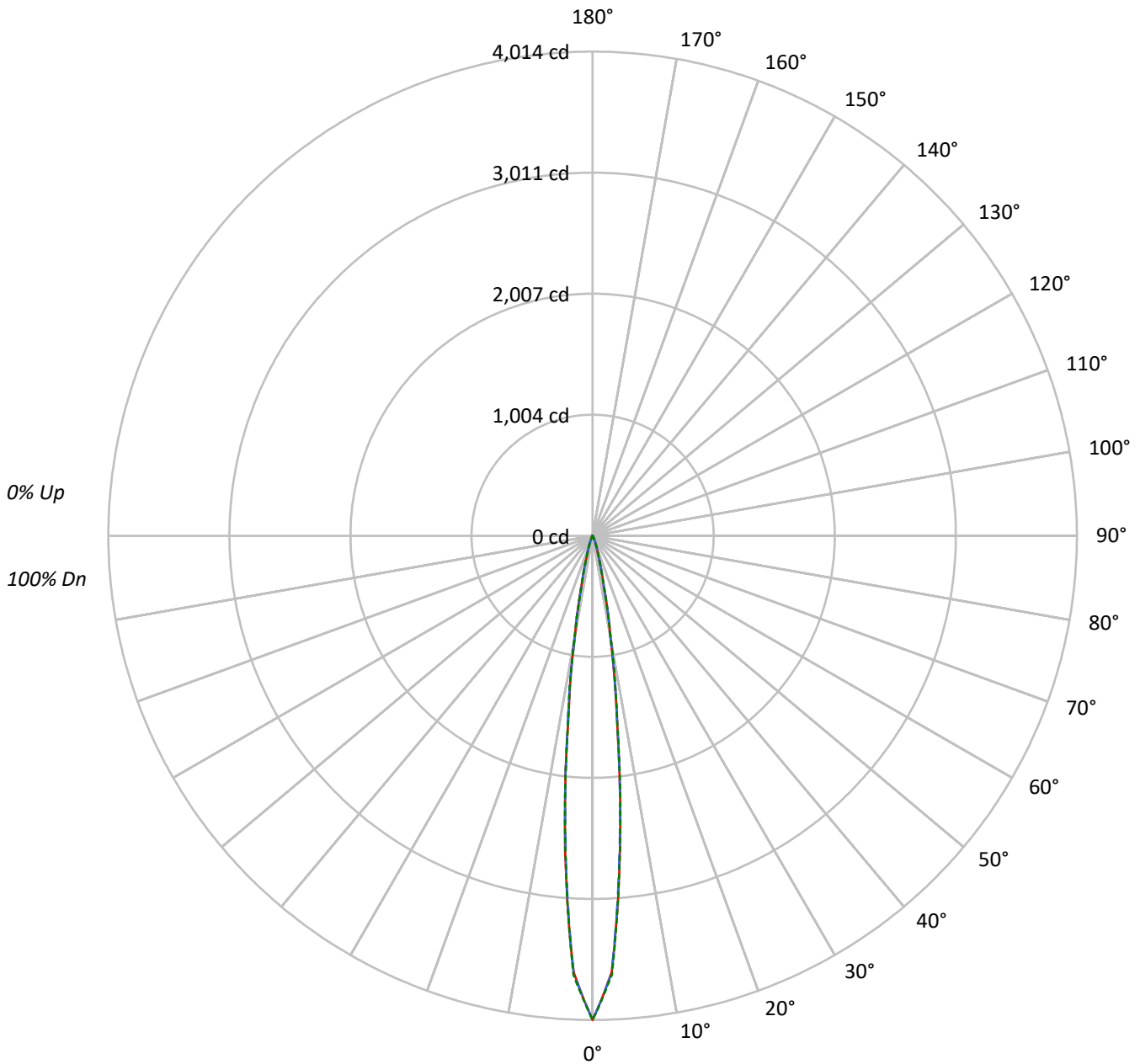


Downlight



TEST NUMBER: P738845
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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	99	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	92						92													
5	106	101	98	95	104	100	97	95	99	96	94	97	95	93	96	94	92	90						90													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	89						89													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	88						88													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	87						87													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	86						86													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	84						84													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	451689	451689	451689
5°	265434	261999	264073
10°	79218	79778	80991
15°	19708	20090	19465
20°	5899	6824	6022
25°	2080	2649	2103
30°	764	1003	779
35°	385	428	370
40°	241	263	241
45°	175	189	175
50°	139	139	139
55°	118	118	118
60°	98	98	98
65°	71	71	71
70°	59	59	59
75°	38	38	53
80°	24	24	24
85°	17	17	17

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 189 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.1	64.9
10°-20°	78.6	26.7
20°-30°	15.6	5.3
30°-40°	3.9	1.3
40°-50°	2.0	0.7
50°-60°	1.5	0.5
60°-70°	1.1	0.4
70°-80°	0.6	0.2
80°-90°	0.2	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°	285.3	96.8
0°-40°	289.2	98.2
0°-60°	292.8	99.4
0°-90°	294.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	294.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4014	4014	4014	4014	4014	
5°	2612	2585	2578	2596	2598	191
15°	227	231	231	227	224	78
25°	27	30	34	30	27	14
35°	5	6	6	6	5	4
45°	2	2	3	2	2	2
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4014.3	4014.3	4014.3	4014.3	4014.3
2.5°	3621.1	3624.1	3625.3	3628.9	3642.1
5°	2611.8	2584.9	2578.0	2595.8	2598.4
7.5°	1547.1	1552.6	1572.4	1576.9	1560.9
10°	849.0	856.0	855.0	861.1	868.0
12.5°	434.2	428.8	427.1	434.0	424.3
15°	226.9	231.1	231.3	227.2	224.1
17.5°	122.0	126.9	135.1	128.5	118.3
20°	72.1	76.5	83.4	78.0	73.6
22.5°	44.5	48.1	53.0	48.8	45.2
25°	26.7	30.2	34.0	30.1	27.0
27.5°	15.8	18.9	21.2	18.7	15.6
30°	10.2	11.9	13.4	11.7	10.4
32.5°	7.1	7.8	8.5	7.8	7.1
35°	5.3	5.6	5.9	5.6	5.1
37.5°	4.1	4.4	4.6	4.2	3.9
40°	3.4	3.6	3.7	3.6	3.4
42.5°	2.9	3.1	3.1	3.1	2.9
45°	2.5	2.5	2.7	2.5	2.5
47.5°	2.2	2.2	2.4	2.2	2.2
50°	2.0	2.0	2.0	2.0	2.0
52.5°	1.9	1.9	1.9	1.9	1.9
55°	1.7	1.7	1.7	1.7	1.7
57.5°	1.5	1.5	1.5	1.5	1.5
60°	1.4	1.4	1.4	1.4	1.4
62.5°	1.2	1.2	1.2	1.2	1.2
65°	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0
70°	0.8	0.8	0.8	0.8	0.8
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.5	0.5	0.5	0.5	0.7
77.5°	0.5	0.5	0.5	0.5	0.5
80°	0.3	0.3	0.3	0.3	0.3
82.5°	0.3	0.3	0.3	0.3	0.3
85°	0.2	0.2	0.2	0.2	0.2
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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