

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: P739131

Luminaire Tested: LD4D02D010-EU4DR300210IC9050-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P739131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D02D010-EU4DR300210IC9050-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 277.1 lumens
Efficiency: N/A
Efficacy: 54.3 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
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



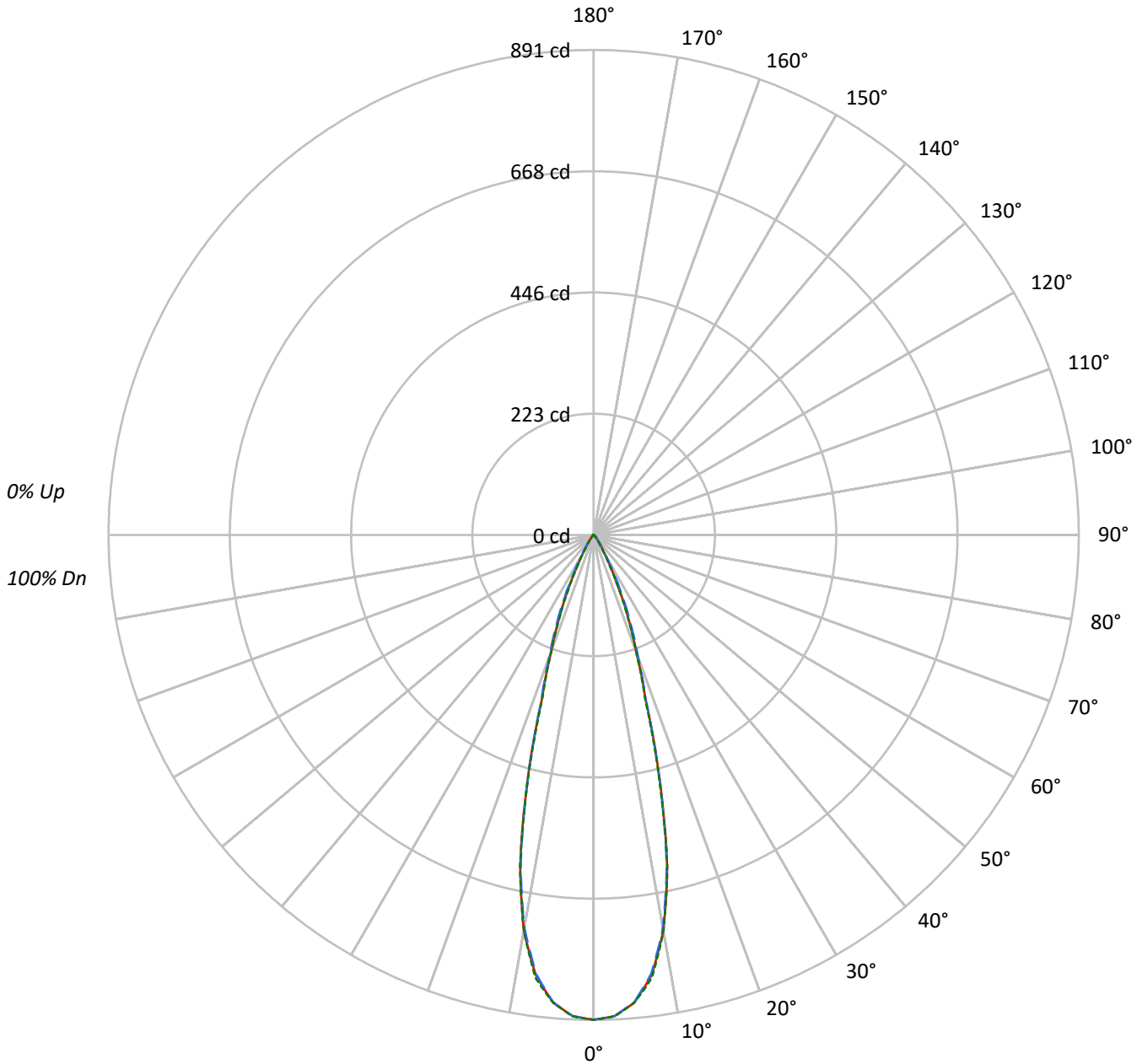
Downlight



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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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	68193	68193	68193
5°	66240	66156	66240
10°	57368	56964	57360
15°	37427	37229	37046
20°	18613	19313	18588
25°	9375	10574	9180
30°	3756	4092	3270
35°	1738	1663	1402
40°	749	839	709
45°	530	660	530
50°	179	476	191
55°	107	200	120
60°	77	92	77
65°	54	54	54
70°	22	22	22
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 660 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	28.3
10°-20°	126.2	45.5
20°-30°	54.5	19.7
30°-40°	12.4	4.5
40°-50°	4.3	1.5
50°-60°	1.0	0.4
60°-70°	0.3	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	259.0	93.5
0°-40°	271.5	98.0
0°-60°	276.8	99.9
0°-90°	277.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	277.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	891	891	891	891	891	
5°	862	861	861	863	862	78
15°	472	467	470	468	468	126
25°	111	115	125	112	109	53
35°	19	19	18	18	15	13
45°	5	6	6	6	5	3
55°	1	1	2	1	1	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
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°	890.9	890.9	890.9	890.9	890.9
2.5°	885.0	884.4	884.8	885.2	885.4
5°	862.1	861.2	861.0	862.8	862.1
7.5°	815.7	814.6	812.7	816.8	820.6
10°	738.1	736.8	732.9	734.9	738.0
12.5°	623.5	619.3	619.2	625.4	624.5
15°	472.3	466.7	469.8	468.3	467.5
17.5°	317.6	315.5	319.6	318.4	312.9
20°	228.5	229.1	237.1	233.1	228.2
22.5°	166.7	168.8	178.3	167.9	164.1
25°	111.0	115.2	125.2	112.3	108.7
27.5°	68.3	70.2	80.3	67.4	65.5
30°	42.5	41.5	46.3	39.7	37.0
32.5°	27.8	26.6	28.2	25.3	23.1
35°	18.6	19.0	17.8	17.7	15.0
37.5°	11.6	13.4	11.8	12.6	9.6
40°	7.5	9.7	8.4	9.2	7.1
42.5°	6.2	7.5	6.9	7.3	6.3
45°	4.9	6.1	6.1	6.1	4.9
47.5°	2.7	4.1	5.2	4.2	2.9
50°	1.5	2.1	4.0	2.1	1.6
52.5°	1.0	1.2	2.8	1.2	1.1
55°	0.8	0.9	1.5	0.9	0.9
57.5°	0.6	0.6	0.8	0.6	0.6
60°	0.5	0.5	0.6	0.5	0.5
62.5°	0.3	0.3	0.4	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3
67.5°	0.1	0.2	0.2	0.2	0.2
70°	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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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