

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: P740106

Luminaire Tested: LD4D05D010-EU4DR300210IC9030-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P740106
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: LD4D05D010-EU4DR300210IC9030-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 471.2 lumens
Efficiency: N/A
Efficacy: 62.8 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): 7.5
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

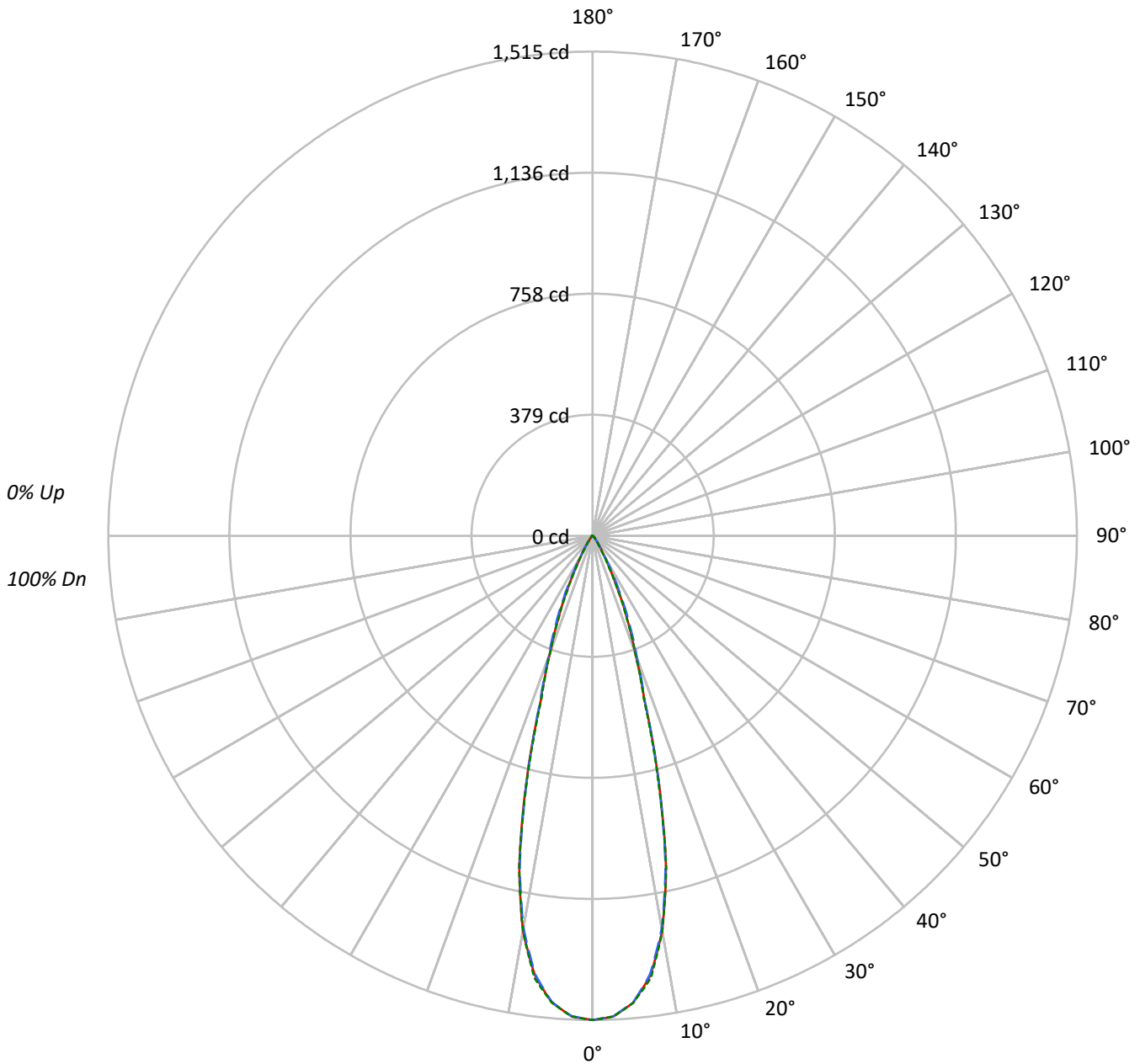


Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	115971	115971	115971
5°	112641	112511	112649
10°	97567	96875	97544
15°	63656	63316	62999
20°	31654	32843	31613
25°	15945	17981	15616
30°	6381	6956	5559
35°	2962	2841	2373
40°	1279	1419	1199
45°	898	1115	909
50°	310	810	333
55°	173	334	187
60°	122	153	122
65°	91	91	91
70°	45	45	45
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 1115 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.2	28.3
10°-20°	214.6	45.5
20°-30°	92.7	19.7
30°-40°	21.1	4.5
40°-50°	7.2	1.5
50°-60°	1.8	0.4
60°-70°	0.5	0.1
70°-80°	0.1	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°	440.5	93.5
0°-40°	461.7	98.0
0°-60°	470.7	99.9
0°-90°	471.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	471.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1515	1515	1515	1515	1515	
5°	1466	1465	1464	1467	1466	133
15°	803	794	799	796	795	215
25°	189	196	213	191	185	90
35°	32	32	30	30	25	21
45°	8	10	10	10	8	6
55°	1	1	2	2	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°	1515.1	1515.1	1515.1	1515.1	1515.1
2.5°	1505.1	1504.0	1504.6	1505.4	1505.7
5°	1466.0	1464.6	1464.3	1467.3	1466.1
7.5°	1387.2	1385.2	1382.2	1389.1	1395.6
10°	1255.3	1253.0	1246.4	1249.7	1255.0
12.5°	1060.5	1053.3	1053.1	1063.5	1062.1
15°	803.3	793.7	799.0	796.4	795.0
17.5°	540.2	536.5	543.6	541.4	532.2
20°	388.6	389.5	403.2	396.3	388.1
22.5°	283.6	287.0	303.2	285.6	279.1
25°	188.8	195.9	212.9	191.0	184.9
27.5°	116.1	119.4	136.6	114.6	111.4
30°	72.2	70.6	78.7	67.6	62.9
32.5°	47.4	45.3	47.9	43.0	39.3
35°	31.7	32.4	30.4	30.1	25.4
37.5°	19.8	22.7	20.1	21.4	16.4
40°	12.8	16.5	14.2	15.7	12.0
42.5°	10.5	12.7	11.7	12.4	10.7
45°	8.3	10.3	10.3	10.3	8.4
47.5°	4.6	6.9	8.8	7.0	4.9
50°	2.6	3.5	6.8	3.7	2.8
52.5°	1.8	2.0	4.7	2.1	1.8
55°	1.3	1.4	2.5	1.5	1.4
57.5°	1.0	1.1	1.3	1.1	1.0
60°	0.8	0.8	1.0	0.9	0.8
62.5°	0.6	0.6	0.7	0.6	0.6
65°	0.5	0.5	0.5	0.5	0.5
67.5°	0.2	0.3	0.3	0.3	0.3
70°	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	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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