

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: P740119

Luminaire Tested: LD4D05D010-EU4DR300210IC9035-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P740119
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-EU4DR300210IC9035-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 497.4 lumens
Efficiency: N/A
Efficacy: 66.3 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): 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



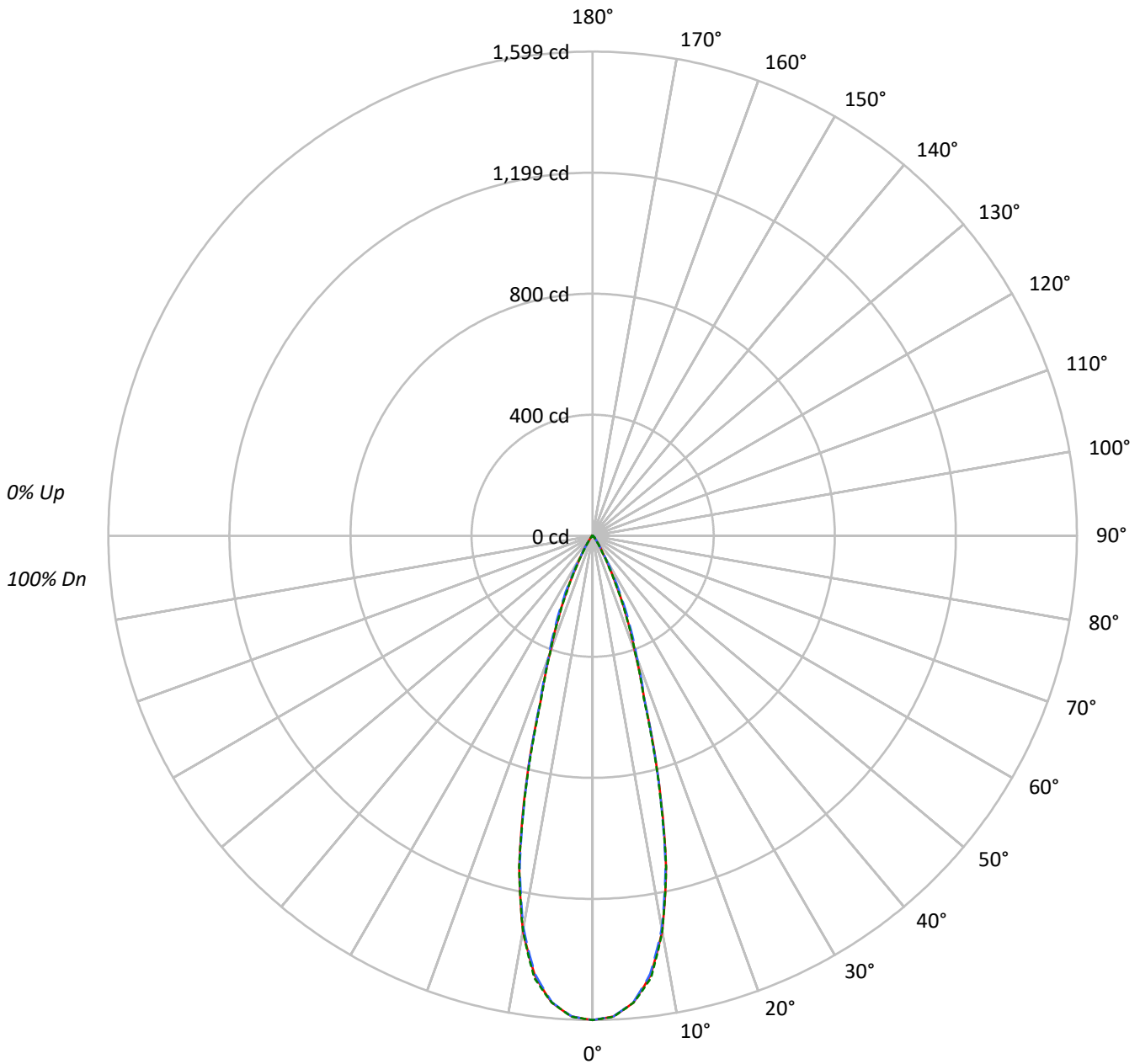
Downlight



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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°	122424	122424	122424
5°	118919	118773	118919
10°	103000	102270	102969
15°	67199	66842	66501
20°	33413	34668	33372
25°	16832	18986	16486
30°	6744	7345	5878
35°	3130	2990	2514
40°	1349	1499	1269
45°	953	1180	963
50°	333	857	345
55°	187	360	200
60°	138	153	138
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: 1180 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.6	28.3
10°-20°	226.5	45.5
20°-30°	97.9	19.7
30°-40°	22.3	4.5
40°-50°	7.7	1.5
50°-60°	1.9	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°	465.0	93.5
0°-40°	487.4	98.0
0°-60°	496.9	99.9
0°-90°	497.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	497.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1599	1599	1599	1599	1599	
5°	1548	1546	1546	1549	1548	141
15°	848	838	844	841	839	227
25°	199	207	225	202	195	95
35°	34	34	32	32	27	23
45°	9	11	11	11	9	6
55°	1	2	3	2	2	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°	1599.4	1599.4	1599.4	1599.4	1599.4
2.5°	1588.8	1587.8	1588.4	1589.2	1589.5
5°	1547.7	1546.2	1545.8	1549.0	1547.7
7.5°	1464.5	1462.3	1459.1	1466.4	1473.3
10°	1325.2	1322.8	1315.8	1319.3	1324.8
12.5°	1119.5	1111.9	1111.7	1122.7	1121.2
15°	848.0	837.8	843.5	840.7	839.2
17.5°	570.3	566.4	573.9	571.6	561.8
20°	410.2	411.3	425.6	418.4	409.7
22.5°	299.4	303.0	320.1	301.5	294.6
25°	199.3	206.8	224.8	201.6	195.2
27.5°	122.6	126.0	144.2	121.0	117.6
30°	76.3	74.5	83.1	71.3	66.5
32.5°	50.0	47.8	50.6	45.4	41.5
35°	33.5	34.1	32.0	31.8	26.9
37.5°	20.9	24.0	21.2	22.6	17.3
40°	13.5	17.4	15.0	16.6	12.7
42.5°	11.1	13.4	12.3	13.1	11.3
45°	8.8	10.9	10.9	10.9	8.9
47.5°	4.9	7.3	9.3	7.4	5.2
50°	2.8	3.7	7.2	3.8	2.9
52.5°	1.9	2.1	4.9	2.2	1.9
55°	1.4	1.5	2.7	1.5	1.5
57.5°	1.1	1.2	1.4	1.2	1.1
60°	0.9	0.9	1.0	0.9	0.9
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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