

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: P750669

Luminaire Tested: LD4D60D010-EU4DR3055659027-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750669
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: LD4D60D010-EU4DR3055659027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4330.9 lumens
Efficiency: N/A
Efficacy: 67.3 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

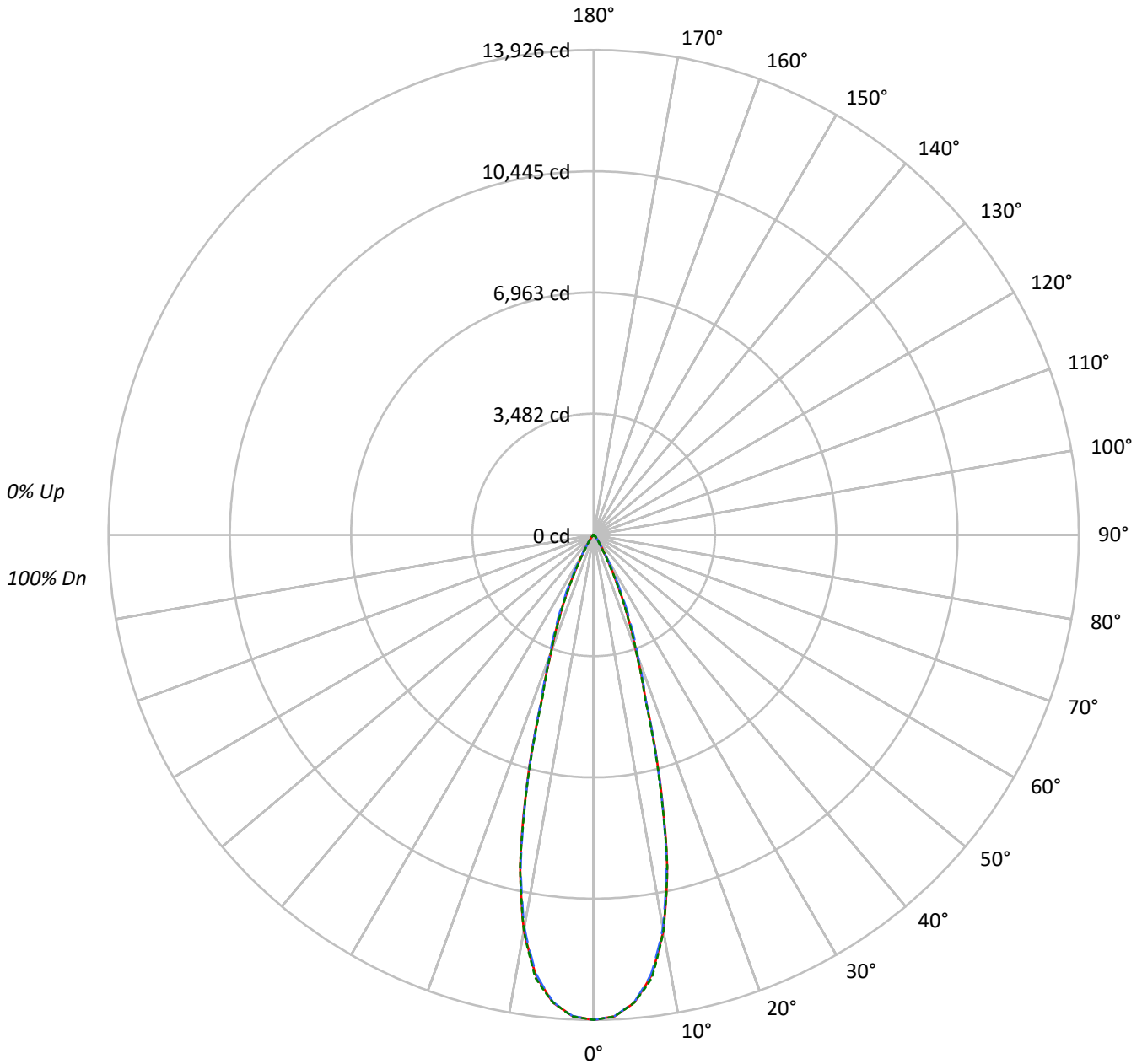
Input Watts (W): 64.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1065936	1065936	1065936
5°	1035331	1034125	1035385
10°	896759	890432	896541
15°	585087	581949	579017
20°	290936	301851	290545
25°	146557	165264	143550
30°	58679	63937	51122
35°	27220	26070	21847
40°	11751	13050	11071
45°	8292	10284	8368
50°	2846	7490	3013
55°	1641	3096	1735
60°	1148	1362	1148
65°	743	743	743
70°	470	313	470
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10284 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1224.6	28.3
10°-20°	1972.2	45.5
20°-30°	852.2	19.7
30°-40°	194.2	4.5
40°-50°	66.7	1.5
50°-60°	16.3	0.4
60°-70°	4.2	0.1
70°-80°	0.5	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°	4049.0	93.5
0°-40°	4243.2	98.0
0°-60°	4326.2	99.9
0°-90°	4330.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4330.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13926	13926	13926	13926	13926	
5°	13475	13462	13459	13487	13475	1226
15°	7383	7294	7344	7320	7307	1977
25°	1735	1801	1957	1755	1700	831
35°	291	297	279	277	234	198
45°	77	95	95	95	77	54
55°	12	13	23	14	13	12
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13925.9	13925.9	13925.9	13925.9	13925.9
2.5°	13833.6	13824.0	13829.5	13836.3	13839.1
5°	13474.6	13461.6	13458.9	13486.9	13475.3
7.5°	12750.6	12732.1	12704.1	12767.7	12827.2
10°	11537.7	11517.2	11456.3	11486.4	11534.9
12.5°	9747.0	9680.7	9679.3	9775.1	9762.1
15°	7383.4	7294.5	7343.8	7319.8	7306.8
17.5°	4965.1	4930.9	4996.6	4976.8	4891.3
20°	3571.7	3580.6	3705.7	3642.8	3566.9
22.5°	2606.3	2638.5	2786.8	2624.8	2565.3
25°	1735.3	1800.9	1956.8	1755.1	1699.7
27.5°	1067.3	1097.4	1255.3	1053.6	1023.5
30°	663.9	648.8	723.4	620.8	578.4
32.5°	435.5	416.4	440.3	395.2	361.0
35°	291.3	297.4	279.0	276.9	233.8
37.5°	181.9	209.2	184.6	196.9	150.4
40°	117.6	151.8	130.6	144.3	110.8
42.5°	96.4	116.9	107.3	114.2	98.5
45°	76.6	95.0	95.0	95.0	77.3
47.5°	42.4	63.6	81.4	65.0	45.1
50°	23.9	32.1	62.9	33.5	25.3
52.5°	16.4	18.5	43.1	19.1	17.1
55°	12.3	13.0	23.2	13.7	13.0
57.5°	9.6	10.3	12.3	10.3	9.6
60°	7.5	7.5	8.9	8.2	7.5
62.5°	5.5	5.5	6.2	5.5	5.5
65°	4.1	4.1	4.1	4.1	4.1
67.5°	2.1	2.7	2.7	2.7	2.7
70°	2.1	1.4	1.4	1.4	2.1
72.5°	1.4	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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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