

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: P750708

Luminaire Tested: LD4D60D010-EU4DR3055659040-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750708
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-EU4DR3055659040-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4719.6 lumens
Efficiency: N/A
Efficacy: 73.3 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

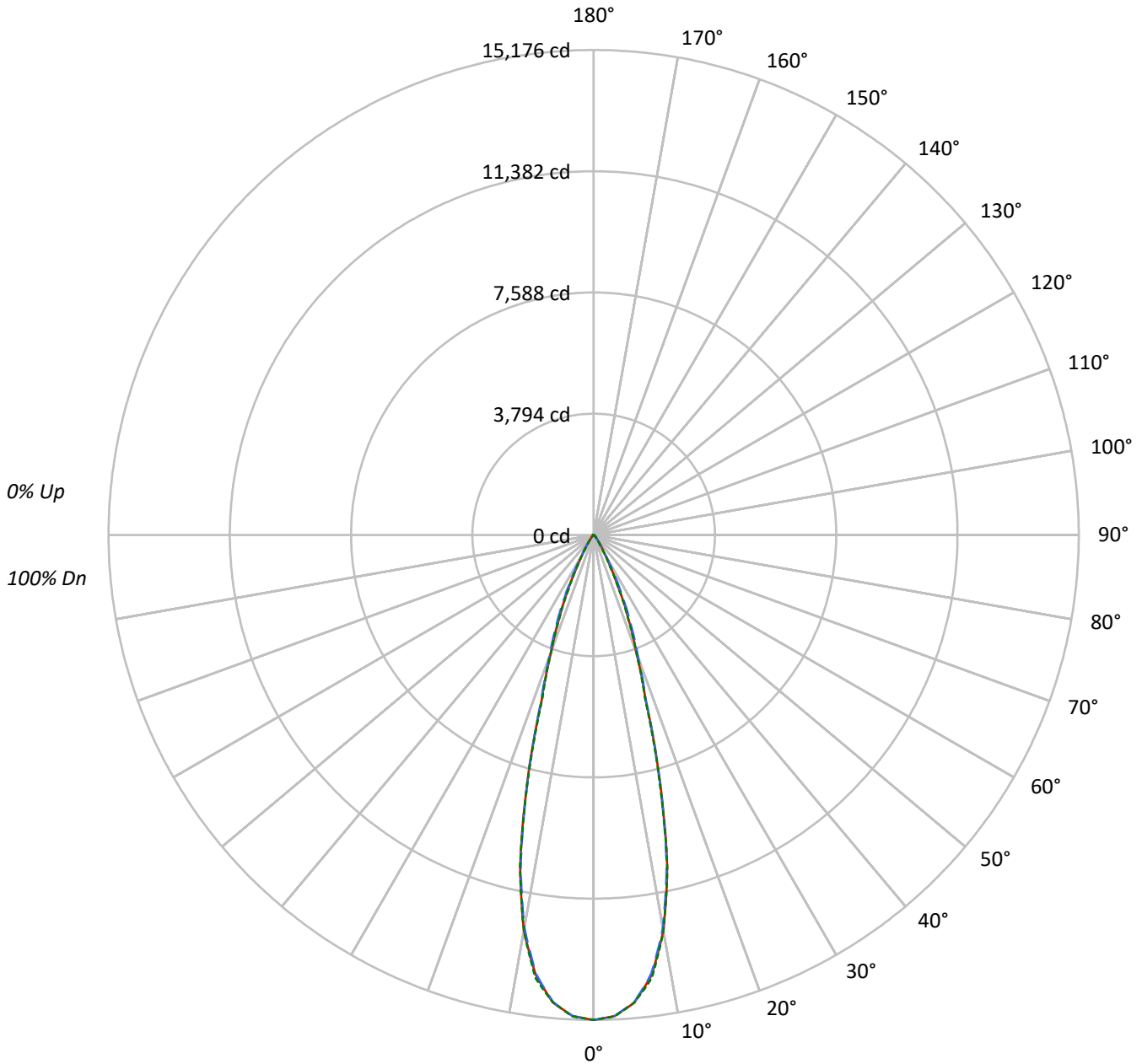
Input Watts (W): 64.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1161592	1161592	1161592
5°	1128249	1126935	1128303
10°	977234	970340	977001
15°	637594	634170	630985
20°	317050	328943	316619
25°	159707	180095	156438
30°	63946	69674	55709
35°	29659	28406	23809
40°	12810	14219	12060
45°	9028	11215	9115
50°	3108	8157	3287
55°	1788	3376	1895
60°	1255	1485	1255
65°	815	815	815
70°	492	336	492
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 11215 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1334.5	28.3
10°-20°	2149.2	45.5
20°-30°	928.7	19.7
30°-40°	211.7	4.5
40°-50°	72.7	1.5
50°-60°	17.8	0.4
60°-70°	4.6	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°	4412.4	93.5
0°-40°	4624.0	98.0
0°-60°	4714.5	99.9
0°-90°	4719.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4719.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15176	15176	15176	15176	15176	
5°	14684	14670	14667	14697	14685	1336
15°	8046	7949	8003	7977	7963	2154
25°	1891	1962	2132	1913	1852	905
35°	317	324	304	302	255	215
45°	83	104	104	104	84	59
55°	13	14	25	15	14	13
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°	15175.6	15175.6	15175.6	15175.6	15175.6
2.5°	15075.1	15064.6	15070.6	15078.0	15081.0
5°	14683.9	14669.7	14666.8	14697.3	14684.6
7.5°	13894.9	13874.7	13844.2	13913.5	13978.3
10°	12573.1	12550.7	12484.4	12517.2	12570.1
12.5°	10621.8	10549.5	10548.0	10652.3	10638.1
15°	8046.0	7949.2	8002.8	7976.7	7962.6
17.5°	5410.7	5373.5	5445.0	5423.4	5330.3
20°	3892.3	3901.9	4038.3	3969.7	3887.0
22.5°	2840.2	2875.2	3036.9	2860.3	2795.5
25°	1891.0	1962.5	2132.4	1912.6	1852.3
27.5°	1163.1	1195.8	1368.0	1148.2	1115.4
30°	723.5	707.1	788.3	676.5	630.3
32.5°	474.6	453.7	479.8	430.7	393.4
35°	317.4	324.1	304.0	301.8	254.8
37.5°	198.2	228.0	201.2	214.6	163.9
40°	128.2	165.4	142.3	157.2	120.7
42.5°	105.1	127.4	117.0	124.4	107.3
45°	83.4	103.6	103.6	103.6	84.2
47.5°	46.2	69.3	88.7	70.8	49.2
50°	26.1	35.0	68.5	36.5	27.6
52.5°	17.9	20.1	46.9	20.9	18.6
55°	13.4	14.2	25.3	14.9	14.2
57.5°	10.4	11.2	13.4	11.2	10.4
60°	8.2	8.2	9.7	8.9	8.2
62.5°	6.0	6.0	6.7	6.0	6.0
65°	4.5	4.5	4.5	4.5	4.5
67.5°	2.2	3.0	3.0	3.0	3.0
70°	2.2	1.5	1.5	1.5	2.2
72.5°	1.5	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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