

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: P750658

Luminaire Tested: LD4D60D010-EU4DR3055659027-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750658
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-EU4DR3055659027-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

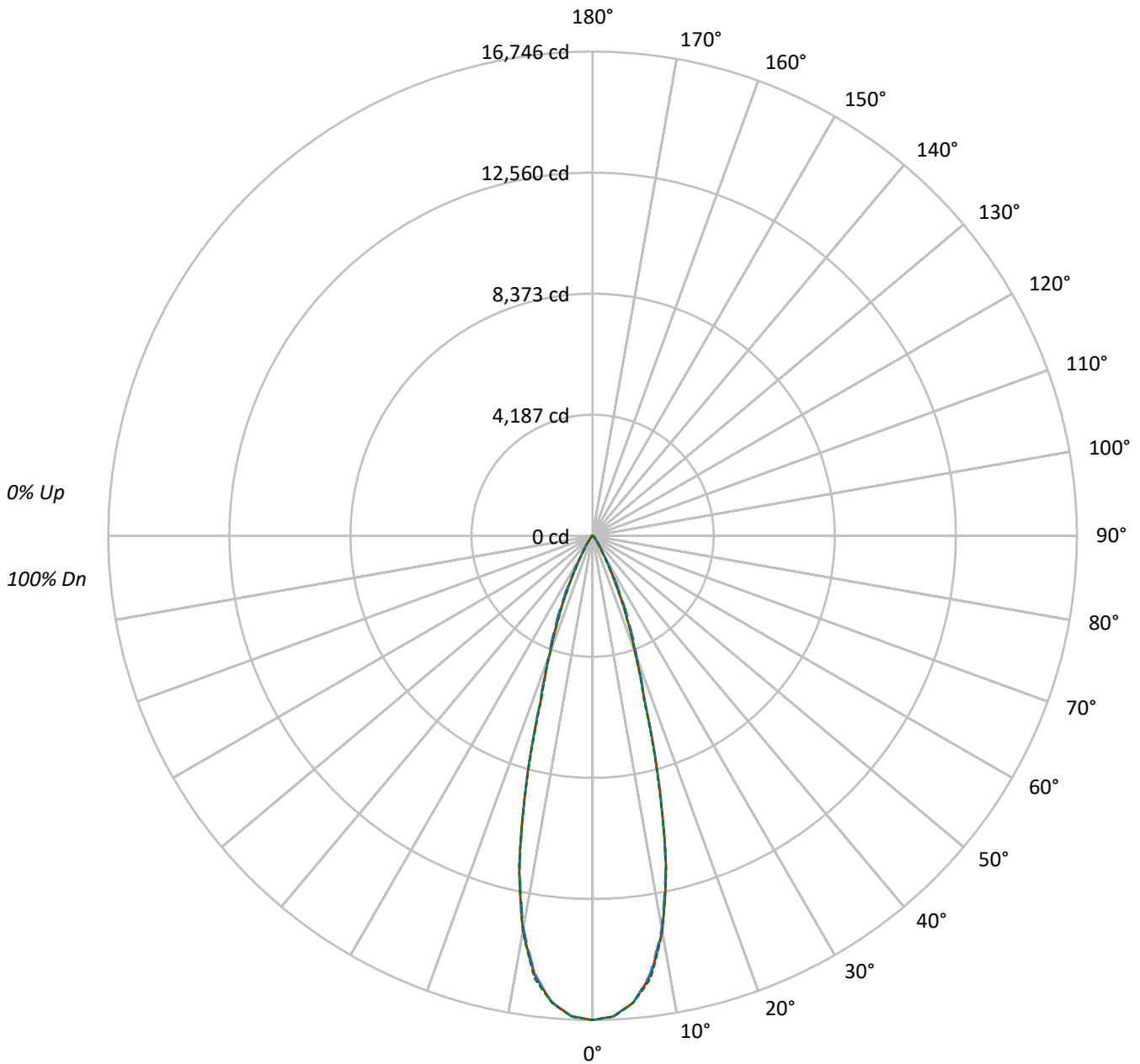
Lumens per Lamp: N/A
Luminaire Lumens: 5208.0 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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	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°	1281826	1281826	1281826
5°	1245024	1243572	1245093
10°	1078384	1070775	1078128
15°	703588	699816	696297
20°	349861	362991	349396
25°	176235	198734	172629
30°	70558	76886	61480
35°	32733	31350	26276
40°	14129	15687	13309
45°	9970	12373	10056
50°	3430	9002	3620
55°	1975	3737	2082
60°	1378	1638	1378
65°	887	887	887
70°	559	358	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12373 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1472.6	28.3
10°-20°	2371.6	45.5
20°-30°	1024.8	19.7
30°-40°	233.6	4.5
40°-50°	80.2	1.5
50°-60°	19.6	0.4
60°-70°	5.1	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°	4869.1	93.5
0°-40°	5102.6	98.0
0°-60°	5202.4	99.9
0°-90°	5208.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5208.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16746	16746	16746	16746	16746	
5°	16204	16188	16185	16218	16205	1474
15°	8879	8772	8831	8802	8787	2377
25°	2087	2166	2353	2111	2044	999
35°	350	358	336	333	281	238
45°	92	114	114	114	93	65
55°	15	16	28	16	16	14
65°	5	5	5	5	5	5
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°	16746.4	16746.4	16746.4	16746.4	16746.4
2.5°	16635.4	16623.9	16630.5	16638.7	16642.0
5°	16203.7	16188.1	16184.8	16218.5	16204.6
7.5°	15333.0	15310.8	15277.1	15353.6	15425.1
10°	13874.5	13849.8	13776.6	13812.8	13871.2
12.5°	11721.2	11641.4	11639.8	11754.9	11739.2
15°	8878.8	8772.0	8831.2	8802.4	8786.8
17.5°	5970.7	5929.6	6008.6	5984.7	5882.0
20°	4295.1	4305.8	4456.3	4380.6	4289.4
22.5°	3134.2	3172.8	3351.2	3156.4	3084.9
25°	2086.7	2165.7	2353.1	2110.6	2044.0
27.5°	1283.4	1319.6	1509.5	1267.0	1230.8
30°	798.3	780.3	869.9	746.5	695.6
32.5°	523.7	500.7	529.5	475.2	434.1
35°	350.3	357.7	335.5	333.0	281.2
37.5°	218.7	251.6	222.0	236.8	180.9
40°	141.4	182.5	157.0	173.5	133.2
42.5°	115.9	140.6	129.1	137.3	118.4
45°	92.1	114.3	114.3	114.3	92.9
47.5°	51.0	76.5	97.8	78.1	54.3
50°	28.8	38.6	75.6	40.3	30.4
52.5°	19.7	22.2	51.8	23.0	20.6
55°	14.8	15.6	28.0	16.4	15.6
57.5°	11.5	12.3	14.8	12.3	11.5
60°	9.0	9.0	10.7	9.9	9.0
62.5°	6.6	6.6	7.4	6.6	6.6
65°	4.9	4.9	4.9	4.9	4.9
67.5°	2.5	3.3	3.3	3.3	3.3
70°	2.5	1.6	1.6	1.6	2.5
72.5°	1.6	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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