

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P799779

Luminaire Tested: **LD6C50D010 EU6509027 6LBMDSWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C50D010 EU6509027 6LBMDSWH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

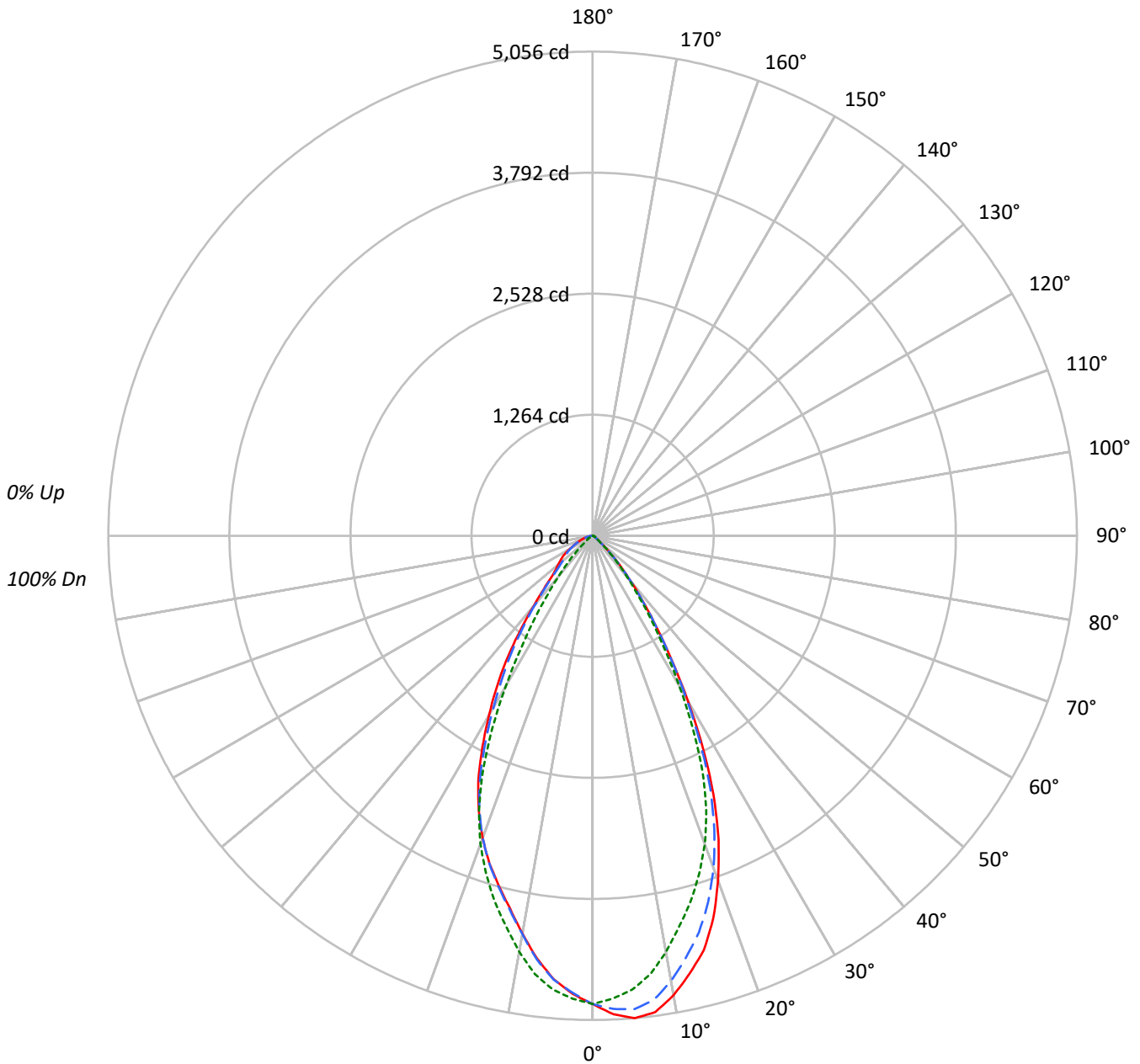
Lumens per Lamp: N/A
Luminaire Lumens: 4210.0 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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: 25 FT

TEST NUMBER: P799779

CATALOG NUMBER: LD6C50D010 EU6509027 6LBMSWH

Luminous Intensity Polar Plot





TEST NUMBER: P799779

CATALOG NUMBER: LD6C50D010 EU6509027 6LBMDSWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92								
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85								
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78								
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73								
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67								
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63								
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59								
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55								
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52								
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	268065	268065	268065
5°	278257	261776	255854
10°	271143	245542	234737
15°	254292	224360	214666
20°	223244	199733	195924
25°	180555	164090	170853
30°	125519	114302	136736
35°	77363	70022	103202
40°	43782	39252	68536
45°	21258	20281	46772
50°	8094	8094	39760
55°	4435	5238	36692
60°	3234	4166	30063
65°	2737	3554	24633
70°	2372	3045	20292
75°	2224	3135	17432
80°	1326	2652	12659
85°	1321	5284	11951



TEST NUMBER: P799779

CATALOG NUMBER: LD6C50D010 EU6509027 6LBMDSWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.7	10.6
10°-20°	1125.1	26.7
20°-30°	1266.6	30.1
30°-40°	784.3	18.6
40°-50°	312.3	7.4
50°-60°	142.2	3.4
60°-70°	81.7	1.9
70°-80°	38.8	0.9
80°-90°	11.3	0.3
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°	2839.3	67.4
0°-40°	3623.6	86.1
0°-60°	4078.1	96.9
0°-90°	4210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4210.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4890	4890	4890	4890	4890	
5°	5056	4964	4757	4654	4649	476
15°	4481	4286	3953	3793	3782	1240
25°	2985	2905	2713	2780	2825	1342
35°	1156	1150	1046	1458	1542	743
45°	274	274	262	570	603	232
55°	46	44	55	338	384	46
65°	21	19	27	188	190	21
75°	10	10	15	80	82	11
85°	2	2	8	19	19	2
90°	0	0	0	0	0	



TEST NUMBER: P799779

CATALOG NUMBER: LD6C50D010 EU6509027 6LBMSWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4889.9	4889.9	4889.9	4889.9	4889.9	4889.9	4889.9	4889.9	4889.9
2.5°	5001.7	4955.3	4944.7	4904.6	4837.1	4799.2	4775.9	4759.1	4788.6
5°	5056.5	5005.9	4963.7	4881.4	4757.0	4687.3	4653.6	4626.2	4649.4
7.5°	5016.4	4944.7	4887.8	4773.8	4615.6	4508.0	4461.6	4430.0	4451.1
10°	4870.9	4784.4	4719.0	4584.0	4411.0	4282.3	4225.4	4195.8	4216.9
12.5°	4681.0	4609.3	4510.1	4362.5	4176.8	4041.8	3999.6	3976.4	3984.9
15°	4480.6	4396.2	4286.5	4138.9	3953.2	3818.2	3792.9	3778.1	3782.4
17.5°	4189.5	4107.2	4012.3	3868.9	3698.0	3588.3	3588.3	3577.7	3584.1
20°	3826.7	3782.4	3689.5	3569.3	3423.7	3324.6	3356.2	3345.7	3358.4
22.5°	3434.3	3400.5	3320.4	3221.2	3098.9	3020.8	3090.4	3088.3	3105.2
25°	2985.0	2959.7	2904.8	2820.4	2712.8	2664.3	2780.3	2780.3	2824.6
27.5°	2489.2	2463.9	2425.9	2354.2	2265.6	2250.9	2421.7	2442.8	2491.3
30°	1982.9	1966.1	1945.0	1879.6	1805.7	1833.2	2069.4	2105.3	2160.1
32.5°	1531.5	1521.0	1514.6	1455.6	1390.2	1480.9	1750.9	1797.3	1852.2
35°	1156.0	1132.8	1149.7	1105.4	1046.3	1160.2	1457.7	1497.8	1542.1
37.5°	852.2	835.4	850.1	818.5	765.8	890.2	1170.8	1196.1	1225.6
40°	611.8	597.0	609.7	590.7	548.5	664.5	917.6	945.1	957.7
42.5°	434.6	409.2	421.9	407.1	386.0	500.0	721.5	746.8	751.0
45°	274.2	265.8	274.2	265.8	261.6	371.3	569.6	592.8	603.3
47.5°	166.7	156.1	156.1	151.9	156.1	274.2	470.4	504.2	521.1
50°	94.9	90.7	88.6	86.5	94.9	215.2	407.1	445.1	466.2
52.5°	63.3	61.2	61.2	59.1	69.6	181.4	367.1	400.8	421.9
55°	46.4	44.3	44.3	44.3	54.8	156.1	337.5	364.9	383.9
57.5°	35.9	35.9	35.9	33.8	46.4	132.9	301.7	316.4	331.2
60°	29.5	27.4	27.4	27.4	38.0	113.9	259.5	265.8	274.2
62.5°	23.2	23.2	23.2	23.2	31.6	101.3	223.6	223.6	227.8
65°	21.1	19.0	19.0	19.0	27.4	88.6	187.7	185.6	189.9
67.5°	16.9	16.9	16.9	16.9	23.2	75.9	154.0	151.9	156.1
70°	14.8	14.8	14.8	14.8	19.0	63.3	124.5	122.4	126.6
72.5°	12.7	12.7	12.7	12.7	16.9	52.7	99.1	99.1	101.3
75°	10.5	10.5	10.5	10.5	14.8	40.1	80.2	80.2	82.3
77.5°	8.4	8.4	8.4	8.4	10.5	31.6	61.2	59.1	59.1
80°	4.2	6.3	6.3	6.3	8.4	23.2	44.3	40.1	40.1
82.5°	2.1	4.2	4.2	4.2	8.4	16.9	29.5	27.4	27.4
85°	2.1	2.1	2.1	6.3	8.4	12.7	19.0	19.0	19.0
87.5°	0.0	2.1	4.2	8.4	10.5	10.5	12.7	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)