

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: P799823

Luminaire Tested: **LD6C50D010 EU6509050 6LBMDDWMW**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C50D010 EU6509050 6LBMDDWMW
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

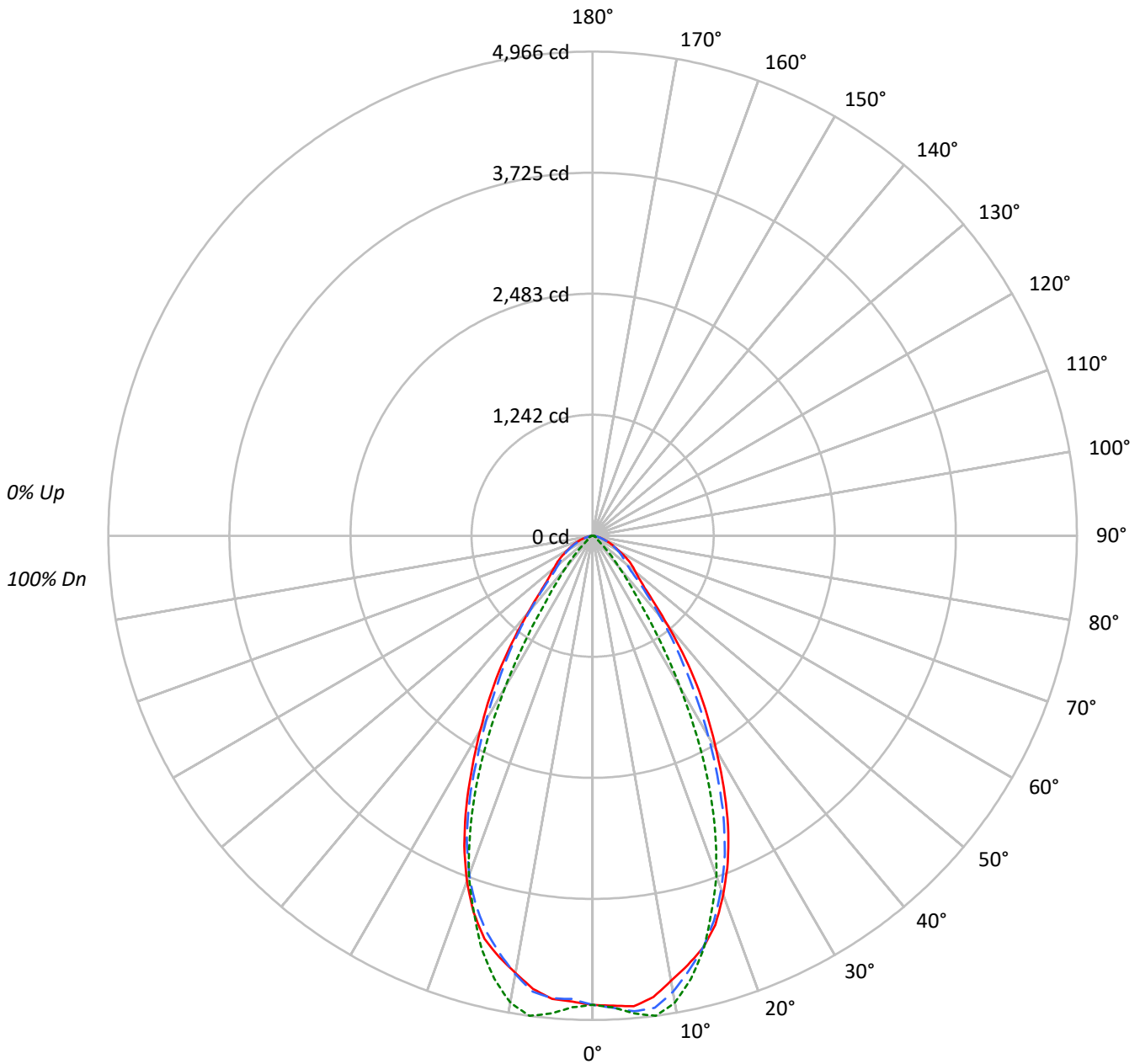
Lumens per Lamp: N/A
Luminaire Lumens: 4899.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P799823

CATALOG NUMBER: LD6C50D010 EU6509050 6LBMDDWMW

Luminous Intensity Polar Plot





TEST NUMBER: P799823

CATALOG NUMBER: LD6C50D010 EU6509050 6LBMDDWMW

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	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70			
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64			
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59			
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55			
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51			
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48			
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	263800	263800	263800
5°	266558	270602	262387
10°	257922	270597	253430
15°	248242	249213	242964
20°	228471	216476	219901
25°	198834	170707	185212
30°	160360	113416	145491
35°	124330	58477	109259
40°	85303	30300	73566
45°	58448	15180	51618
50°	48638	6473	44254
55°	43745	5610	39540
60°	34613	5372	33013
65°	28576	4761	28252
70°	23145	4312	23145
75°	17114	4660	18152
80°	10039	3852	10828
85°	7674	4592	7674



TEST NUMBER: P799823

CATALOG NUMBER: LD6C50D010 EU6509050 6LBMDDWMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.1	9.4
10°-20°	1202.3	24.5
20°-30°	1372.3	28.0
30°-40°	910.1	18.6
40°-50°	438.9	9.0
50°-60°	270.0	5.5
60°-70°	163.4	3.3
70°-80°	68.7	1.4
80°-90°	15.2	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°	3032.7	61.9
0°-40°	3942.7	80.5
0°-60°	4651.7	95.0
0°-90°	4899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4899.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4812	4812	4812	4812	4812	
5°	4844	4895	4917	4761	4768	455
15°	4374	4374	4391	4205	4281	1219
25°	3287	3177	2822	2986	3062	1491
35°	1858	1638	874	1527	1633	1149
45°	754	661	196	617	666	615
55°	458	372	59	372	414	402
65°	220	210	37	198	218	221
75°	81	81	22	76	86	86
85°	12	17	7	12	12	16
90°	0	0	0	0	0	



TEST NUMBER: P799823

CATALOG NUMBER: LD6C50D010 EU6509050 6LBMDDWMW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4812.1	4812.1	4812.1	4812.1	4812.1	4812.1	4812.1	4812.1	4812.1
2.5°	4824.3	4831.7	4846.4	4848.8	4841.5	4795.0	4755.8	4770.5	4782.7
5°	4843.9	4858.6	4895.3	4929.6	4917.4	4839.0	4760.7	4758.3	4768.1
7.5°	4772.9	4807.2	4883.1	4968.8	4966.3	4831.7	4716.7	4687.3	4687.3
10°	4633.4	4665.3	4748.5	4863.5	4861.1	4692.2	4564.9	4550.2	4552.7
12.5°	4508.6	4523.3	4564.9	4655.5	4655.5	4489.0	4391.1	4405.8	4425.4
15°	4374.0	4383.8	4374.0	4403.4	4391.1	4254.0	4205.1	4251.6	4281.0
17.5°	4183.1	4188.0	4136.6	4097.4	4050.9	3965.2	3977.5	4046.0	4053.3
20°	3916.3	3948.1	3855.1	3754.7	3710.7	3629.9	3698.4	3774.3	3769.4
22.5°	3622.5	3659.3	3539.3	3372.9	3282.3	3250.5	3372.9	3441.4	3439.0
25°	3287.2	3314.1	3177.1	2944.5	2822.2	2817.3	2986.2	3057.1	3062.0
27.5°	2910.3	2920.1	2765.9	2462.4	2310.6	2347.3	2560.3	2658.2	2670.4
30°	2533.3	2528.4	2369.3	1992.4	1791.7	1892.0	2178.4	2286.1	2298.4
32.5°	2188.2	2173.5	1992.4	1542.0	1302.2	1451.5	1828.4	1941.0	1960.6
35°	1857.8	1833.3	1637.5	1140.6	873.8	1096.6	1527.3	1625.3	1632.6
37.5°	1512.7	1500.4	1346.2	854.2	609.5	832.2	1245.9	1316.8	1309.5
40°	1192.0	1192.0	1064.7	633.9	423.4	619.3	986.4	1050.0	1028.0
42.5°	935.0	947.2	839.5	467.5	301.1	460.2	780.8	839.5	815.1
45°	753.9	753.9	660.9	347.6	195.8	342.7	616.8	670.7	665.8
47.5°	638.8	629.1	536.0	254.6	107.7	257.0	518.9	585.0	582.5
50°	570.3	555.6	460.2	200.7	75.9	212.9	455.3	516.5	518.9
52.5°	516.5	494.4	413.7	178.7	66.1	186.0	413.7	462.6	462.6
55°	457.7	445.5	372.0	159.1	58.7	166.4	372.0	416.1	413.7
57.5°	386.7	384.3	332.9	144.4	53.8	146.9	332.9	359.8	350.0
60°	315.7	325.5	288.8	129.7	49.0	132.2	283.9	306.0	301.1
62.5°	264.3	276.6	252.1	115.0	41.6	117.5	239.9	261.9	257.0
65°	220.3	230.1	210.5	97.9	36.7	97.9	198.3	217.8	217.8
67.5°	181.1	188.5	173.8	80.8	31.8	80.8	161.5	178.7	181.1
70°	144.4	149.3	137.1	63.6	26.9	66.1	127.3	144.4	144.4
72.5°	112.6	115.0	107.7	51.4	24.5	51.4	97.9	112.6	112.6
75°	80.8	85.7	80.8	39.2	22.0	39.2	75.9	83.2	85.7
77.5°	46.5	58.7	58.7	31.8	17.1	29.4	53.8	56.3	56.3
80°	31.8	36.7	41.6	22.0	12.2	22.0	34.3	36.7	34.3
82.5°	22.0	24.5	24.5	14.7	9.8	14.7	22.0	24.5	22.0
85°	12.2	17.1	17.1	12.2	7.3	9.8	12.2	14.7	12.2
87.5°	7.3	9.8	12.2	9.8	7.3	7.3	7.3	7.3	4.9
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)