

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: P799793

Luminaire Tested: **LD6C50D010 EU6509030 6LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799793
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 EU6509030 6LBMDSWMW
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

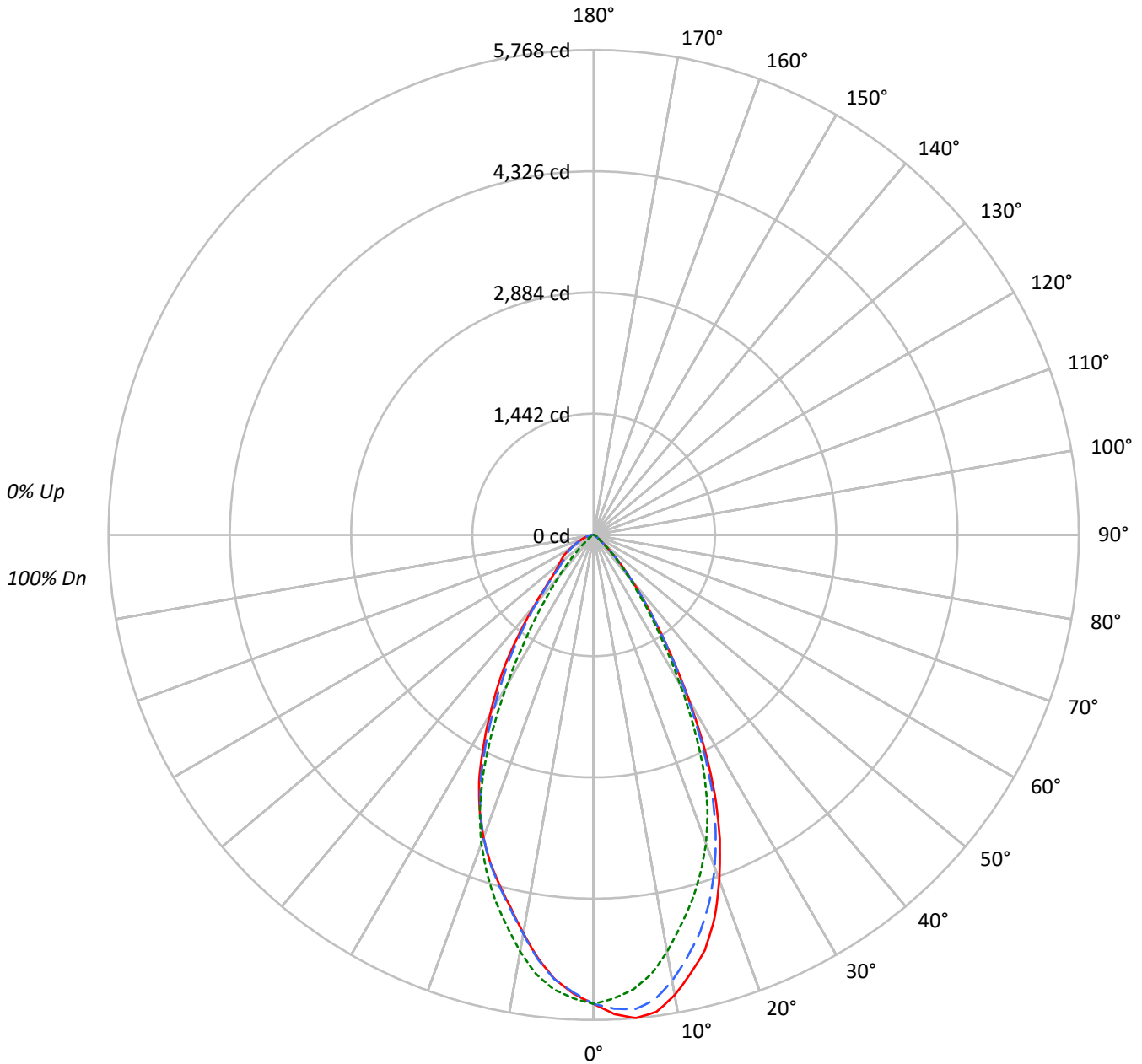
Lumens per Lamp: N/A
Luminaire Lumens: 4802.0 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

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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	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°	305759	305759	305759
5°	317383	298585	291833
10°	309268	280072	267747
15°	290053	255910	244848
20°	254635	227823	223471
25°	205941	187166	194878
30°	143174	130381	155967
35°	88245	79873	117711
40°	49936	44770	78175
45°	24251	23134	53354
50°	9236	9236	45355
55°	5056	5983	41853
60°	3695	4747	34295
65°	3126	4060	28096
70°	2693	3478	23145
75°	2542	3558	19868
80°	1515	3031	14427
85°	1510	6038	13649



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.6	10.6
10°-20°	1283.3	26.7
20°-30°	1444.7	30.1
30°-40°	894.6	18.6
40°-50°	356.3	7.4
50°-60°	162.2	3.4
60°-70°	93.2	1.9
70°-80°	44.3	0.9
80°-90°	12.9	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°	3238.6	67.4
0°-40°	4133.2	86.1
0°-60°	4651.6	96.9
0°-90°	4802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4802.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5578	5578	5578	5578	5578	
5°	5768	5662	5426	5308	5303	543
15°	5111	4889	4509	4326	4314	1414
25°	3405	3313	3094	3171	3222	1530
35°	1319	1311	1194	1663	1759	847
45°	313	313	298	650	688	265
55°	53	50	63	385	438	53
65°	24	22	31	214	217	23
75°	12	12	17	91	94	12
85°	2	2	10	22	22	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5577.5	5577.5	5577.5	5577.5	5577.5	5577.5	5577.5	5577.5	5577.5
2.5°	5705.0	5652.1	5640.0	5594.3	5517.3	5474.0	5447.5	5428.3	5462.0
5°	5767.5	5709.8	5661.7	5567.8	5425.9	5346.5	5308.0	5276.7	5303.2
7.5°	5721.8	5640.0	5575.1	5445.1	5264.7	5141.9	5089.0	5052.9	5077.0
10°	5555.8	5457.2	5382.6	5228.6	5031.3	4884.5	4819.5	4785.8	4809.9
12.5°	5339.3	5257.4	5144.4	4975.9	4764.2	4610.2	4562.1	4535.6	4545.2
15°	5110.7	5014.4	4889.3	4720.9	4509.1	4355.1	4326.3	4309.4	4314.2
17.5°	4778.6	4684.8	4576.5	4412.9	4218.0	4092.9	4092.9	4080.8	4088.1
20°	4364.8	4314.2	4208.4	4071.2	3905.2	3792.1	3828.2	3816.2	3830.6
22.5°	3917.2	3878.7	3787.3	3674.2	3534.6	3445.6	3525.0	3522.6	3541.9
25°	3404.7	3375.8	3313.3	3217.0	3094.3	3039.0	3171.3	3171.3	3221.8
27.5°	2839.3	2810.4	2767.1	2685.3	2584.2	2567.4	2762.3	2786.3	2841.7
30°	2261.8	2242.5	2218.5	2143.9	2059.7	2090.9	2360.4	2401.3	2463.9
32.5°	1746.9	1734.8	1727.6	1660.2	1585.7	1689.1	1997.1	2050.0	2112.6
35°	1318.6	1292.1	1311.4	1260.8	1193.5	1323.4	1662.7	1708.4	1758.9
37.5°	972.1	952.8	969.7	933.6	873.4	1015.4	1335.4	1364.3	1398.0
40°	697.8	680.9	695.4	673.7	625.6	757.9	1046.7	1078.0	1092.4
42.5°	495.7	466.8	481.2	464.4	440.3	570.3	822.9	851.8	856.6
45°	312.8	303.2	312.8	303.2	298.4	423.5	649.7	676.1	688.2
47.5°	190.1	178.1	178.1	173.2	178.1	312.8	536.6	575.1	594.3
50°	108.3	103.5	101.1	98.7	108.3	245.4	464.4	507.7	531.8
52.5°	72.2	69.8	69.8	67.4	79.4	206.9	418.7	457.2	481.2
55°	52.9	50.5	50.5	50.5	62.6	178.1	385.0	416.3	437.9
57.5°	40.9	40.9	40.9	38.5	52.9	151.6	344.1	360.9	377.8
60°	33.7	31.3	31.3	31.3	43.3	129.9	296.0	303.2	312.8
62.5°	26.5	26.5	26.5	26.5	36.1	115.5	255.1	255.1	259.9
65°	24.1	21.7	21.7	21.7	31.3	101.1	214.1	211.7	216.6
67.5°	19.2	19.2	19.2	19.2	26.5	86.6	175.6	173.2	178.1
70°	16.8	16.8	16.8	16.8	21.7	72.2	142.0	139.6	144.4
72.5°	14.4	14.4	14.4	14.4	19.2	60.2	113.1	113.1	115.5
75°	12.0	12.0	12.0	12.0	16.8	45.7	91.4	91.4	93.8
77.5°	9.6	9.6	9.6	9.6	12.0	36.1	69.8	67.4	67.4
80°	4.8	7.2	7.2	7.2	9.6	26.5	50.5	45.7	45.7
82.5°	2.4	4.8	4.8	4.8	9.6	19.2	33.7	31.3	31.3
85°	2.4	2.4	2.4	7.2	9.6	14.4	21.7	21.7	21.7
87.5°	0.0	2.4	4.8	9.6	12.0	12.0	14.4	12.0	12.0
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)