

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: P799807

Luminaire Tested: **LD6C50D010 EU6509035 6LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799807
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 EU6509035 6LBMDSWWMH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

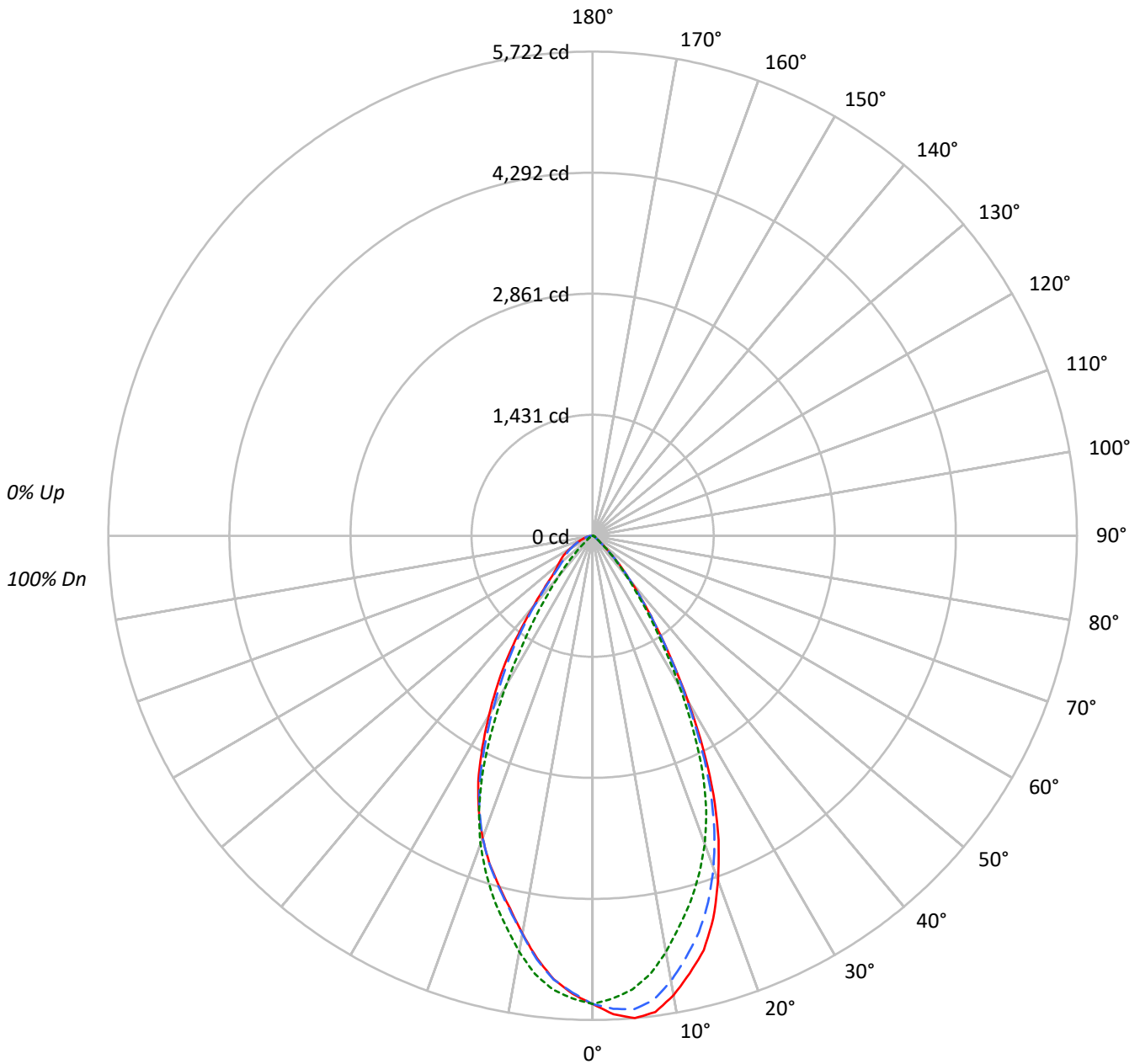
Lumens per Lamp: N/A
Luminaire Lumens: 4764.0 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	303336	303336	303336
5°	314874	296219	289522
10°	306819	277856	265626
15°	287754	253883	242913
20°	252617	226020	221703
25°	204314	185684	193336
30°	142041	129349	154733
35°	87542	79237	116781
40°	49543	44412	77552
45°	24057	22948	52928
50°	9160	9160	44996
55°	5018	5935	41528
60°	3662	4715	34021
65°	3100	4021	27863
70°	2677	3446	22953
75°	2521	3537	19719
80°	1515	2999	14333
85°	1510	5975	13523



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.6	10.6
10°-20°	1273.2	26.7
20°-30°	1433.2	30.1
30°-40°	887.5	18.6
40°-50°	353.4	7.4
50°-60°	160.9	3.4
60°-70°	92.5	1.9
70°-80°	43.9	0.9
80°-90°	12.8	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°	3213.0	67.4
0°-40°	4100.4	86.1
0°-60°	4614.8	96.9
0°-90°	4764.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4764.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5533	5533	5533	5533	5533	
5°	5722	5617	5383	5266	5261	539
15°	5070	4851	4473	4292	4280	1403
25°	3378	3287	3070	3146	3196	1518
35°	1308	1301	1184	1650	1745	841
45°	310	310	296	644	683	263
55°	52	50	62	382	434	52
65°	24	22	31	212	215	23
75°	12	12	17	91	93	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°	5533.3	5533.3	5533.3	5533.3	5533.3	5533.3	5533.3	5533.3	5533.3
2.5°	5659.8	5607.3	5595.4	5550.0	5473.6	5430.7	5404.4	5385.3	5418.7
5°	5721.9	5664.6	5616.9	5523.8	5382.9	5304.2	5266.0	5234.9	5261.2
7.5°	5676.6	5595.4	5530.9	5402.0	5223.0	5101.3	5048.7	5012.9	5036.8
10°	5511.8	5414.0	5340.0	5187.2	4991.5	4845.8	4781.4	4748.0	4771.8
12.5°	5297.0	5215.8	5103.6	4936.5	4726.5	4573.7	4526.0	4499.7	4509.3
15°	5070.2	4974.7	4850.6	4683.5	4473.4	4320.7	4292.0	4275.3	4280.1
17.5°	4740.8	4647.7	4540.3	4378.0	4184.6	4060.5	4060.5	4048.5	4055.7
20°	4330.2	4280.1	4175.1	4039.0	3874.3	3762.1	3797.9	3786.0	3800.3
22.5°	3886.2	3848.0	3757.3	3645.1	3506.7	3418.3	3497.1	3494.7	3513.8
25°	3377.8	3349.1	3287.1	3191.6	3069.8	3014.9	3146.2	3146.2	3196.3
27.5°	2816.8	2788.1	2745.2	2664.0	2563.8	2547.0	2740.4	2764.3	2819.2
30°	2243.9	2224.8	2200.9	2126.9	2043.4	2074.4	2341.8	2382.3	2444.4
32.5°	1733.0	1721.1	1713.9	1647.1	1573.1	1675.8	1981.3	2033.8	2095.9
35°	1308.1	1281.9	1301.0	1250.8	1184.0	1312.9	1649.5	1694.8	1745.0
37.5°	964.4	945.3	962.0	926.2	866.5	1007.4	1324.8	1353.5	1386.9
40°	692.3	675.6	689.9	668.4	620.6	751.9	1038.4	1069.4	1083.7
42.5°	491.7	463.1	477.4	460.7	436.8	565.7	816.4	845.0	849.8
45°	310.3	300.8	310.3	300.8	296.0	420.1	644.5	670.8	682.7
47.5°	188.6	176.6	176.6	171.9	176.6	310.3	532.3	570.5	589.6
50°	107.4	102.6	100.3	97.9	107.4	243.5	460.7	503.7	527.6
52.5°	71.6	69.2	69.2	66.8	78.8	205.3	415.4	453.6	477.4
55°	52.5	50.1	50.1	50.1	62.1	176.6	381.9	413.0	434.5
57.5°	40.6	40.6	40.6	38.2	52.5	150.4	341.4	358.1	374.8
60°	33.4	31.0	31.0	31.0	43.0	128.9	293.6	300.8	310.3
62.5°	26.3	26.3	26.3	26.3	35.8	114.6	253.0	253.0	257.8
65°	23.9	21.5	21.5	21.5	31.0	100.3	212.5	210.1	214.8
67.5°	19.1	19.1	19.1	19.1	26.3	85.9	174.3	171.9	176.6
70°	16.7	16.7	16.7	16.7	21.5	71.6	140.8	138.5	143.2
72.5°	14.3	14.3	14.3	14.3	19.1	59.7	112.2	112.2	114.6
75°	11.9	11.9	11.9	11.9	16.7	45.4	90.7	90.7	93.1
77.5°	9.5	9.5	9.5	9.5	11.9	35.8	69.2	66.8	66.8
80°	4.8	7.2	7.2	7.2	9.5	26.3	50.1	45.4	45.4
82.5°	2.4	4.8	4.8	4.8	9.5	19.1	33.4	31.0	31.0
85°	2.4	2.4	2.4	7.2	9.5	14.3	21.5	21.5	21.5
87.5°	0.0	2.4	4.8	9.5	11.9	11.9	14.3	11.9	11.9
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)