

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: P799819

Luminaire Tested: **LD6C50D010 EU6509040 6LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799819
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 EU6509040 6LBMDSWWMH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

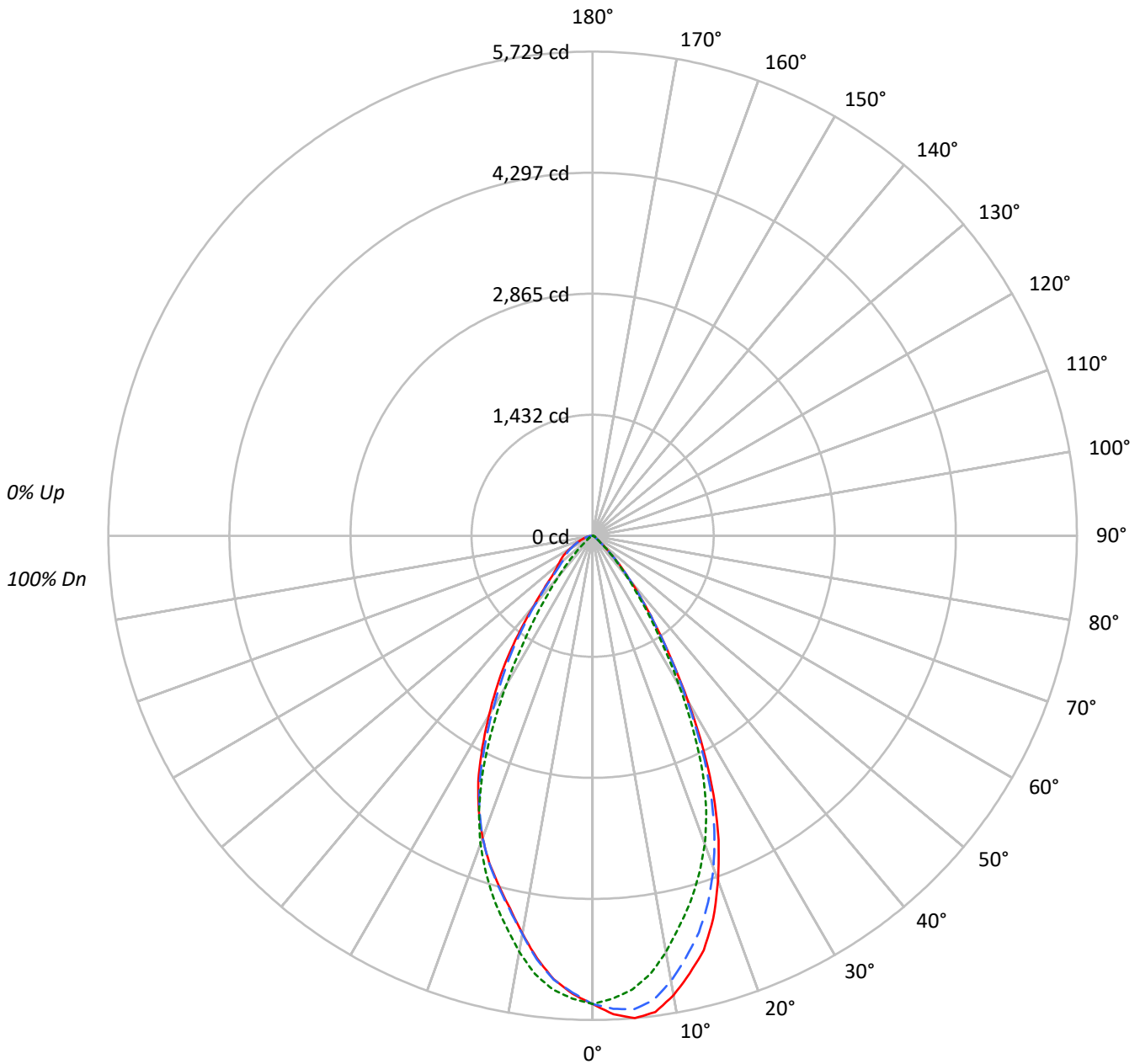
Lumens per Lamp: N/A
Luminaire Lumens: 4770.0 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	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°	303720	303720	303720
5°	315270	296593	289885
10°	307209	278201	265960
15°	288117	254207	243219
20°	252938	226306	221983
25°	204568	185920	193584
30°	142218	129507	154929
35°	87656	79337	116928
40°	49600	44469	77653
45°	24088	22979	52998
50°	9177	9177	45048
55°	5027	5935	41576
60°	3673	4715	34065
65°	3100	4034	27902
70°	2677	3446	22985
75°	2542	3537	19741
80°	1515	3031	14333
85°	1510	6038	13523



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.2	10.6
10°-20°	1274.8	26.7
20°-30°	1435.0	30.1
30°-40°	888.6	18.6
40°-50°	353.9	7.4
50°-60°	161.1	3.4
60°-70°	92.6	1.9
70°-80°	44.0	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°	3217.0	67.4
0°-40°	4105.6	86.1
0°-60°	4620.6	96.9
0°-90°	4770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4770.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5540	5540	5540	5540	5540	
5°	5729	5624	5390	5273	5268	540
15°	5077	4857	4479	4297	4286	1405
25°	3382	3291	3074	3150	3200	1520
35°	1310	1303	1186	1652	1747	842
45°	311	311	296	645	684	263
55°	53	50	62	382	435	52
65°	24	22	31	213	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°	5540.3	5540.3	5540.3	5540.3	5540.3	5540.3	5540.3	5540.3	5540.3
2.5°	5667.0	5614.4	5602.4	5557.0	5480.5	5437.5	5411.2	5392.1	5425.6
5°	5729.1	5671.8	5623.9	5530.7	5389.7	5310.8	5272.6	5241.5	5267.8
7.5°	5683.7	5602.4	5537.9	5408.8	5229.6	5107.7	5055.1	5019.2	5043.1
10°	5518.8	5420.8	5346.7	5193.7	4997.7	4851.9	4787.4	4753.9	4777.8
12.5°	5303.7	5222.4	5110.1	4942.8	4732.4	4579.5	4531.7	4505.4	4514.9
15°	5076.6	4981.0	4856.7	4689.4	4479.1	4326.1	4297.4	4280.7	4285.5
17.5°	4746.8	4653.6	4546.0	4383.5	4189.9	4065.6	4065.6	4053.6	4060.8
20°	4335.7	4285.5	4180.3	4044.1	3879.2	3766.8	3802.7	3790.7	3805.1
22.5°	3891.1	3852.9	3762.0	3649.7	3511.1	3422.6	3501.5	3499.1	3518.3
25°	3382.0	3353.3	3291.2	3195.6	3073.7	3018.7	3150.2	3150.2	3200.4
27.5°	2820.3	2791.7	2748.6	2667.4	2567.0	2550.3	2743.9	2767.8	2822.7
30°	2246.7	2227.6	2203.7	2129.6	2045.9	2077.0	2344.7	2385.3	2447.5
32.5°	1735.2	1723.3	1716.1	1649.2	1575.1	1677.9	1983.8	2036.4	2098.5
35°	1309.8	1283.5	1302.6	1252.4	1185.5	1314.6	1651.6	1697.0	1747.2
37.5°	965.6	946.5	963.2	927.4	867.6	1008.6	1326.5	1355.2	1388.7
40°	693.1	676.4	690.7	669.2	621.4	752.9	1039.7	1070.8	1085.1
42.5°	492.4	463.7	478.0	461.3	437.4	566.5	817.4	846.1	850.9
45°	310.7	301.2	310.7	301.2	296.4	420.7	645.3	671.6	683.6
47.5°	188.8	176.9	176.9	172.1	176.9	310.7	533.0	571.2	590.4
50°	107.6	102.8	100.4	98.0	107.6	243.8	461.3	504.3	528.2
52.5°	71.7	69.3	69.3	66.9	78.9	205.6	415.9	454.1	478.0
55°	52.6	50.2	50.2	50.2	62.1	176.9	382.4	413.5	435.0
57.5°	40.6	40.6	40.6	38.2	52.6	150.6	341.8	358.5	375.2
60°	33.5	31.1	31.1	31.1	43.0	129.1	294.0	301.2	310.7
62.5°	26.3	26.3	26.3	26.3	35.9	114.7	253.4	253.4	258.1
65°	23.9	21.5	21.5	21.5	31.1	100.4	212.7	210.3	215.1
67.5°	19.1	19.1	19.1	19.1	26.3	86.0	174.5	172.1	176.9
70°	16.7	16.7	16.7	16.7	21.5	71.7	141.0	138.6	143.4
72.5°	14.3	14.3	14.3	14.3	19.1	59.8	112.3	112.3	114.7
75°	12.0	12.0	12.0	12.0	16.7	45.4	90.8	90.8	93.2
77.5°	9.6	9.6	9.6	9.6	12.0	35.9	69.3	66.9	66.9
80°	4.8	7.2	7.2	7.2	9.6	26.3	50.2	45.4	45.4
82.5°	2.4	4.8	4.8	4.8	9.6	19.1	33.5	31.1	31.1
85°	2.4	2.4	2.4	7.2	9.6	14.3	21.5	21.5	21.5
87.5°	0.0	2.4	4.8	9.6	12.0	12.0	14.3	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)