

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: P799817

Luminaire Tested: **LD6C50D010 EU6509040 6LBMDSWMW**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799817
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 6LBMDSWMW
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

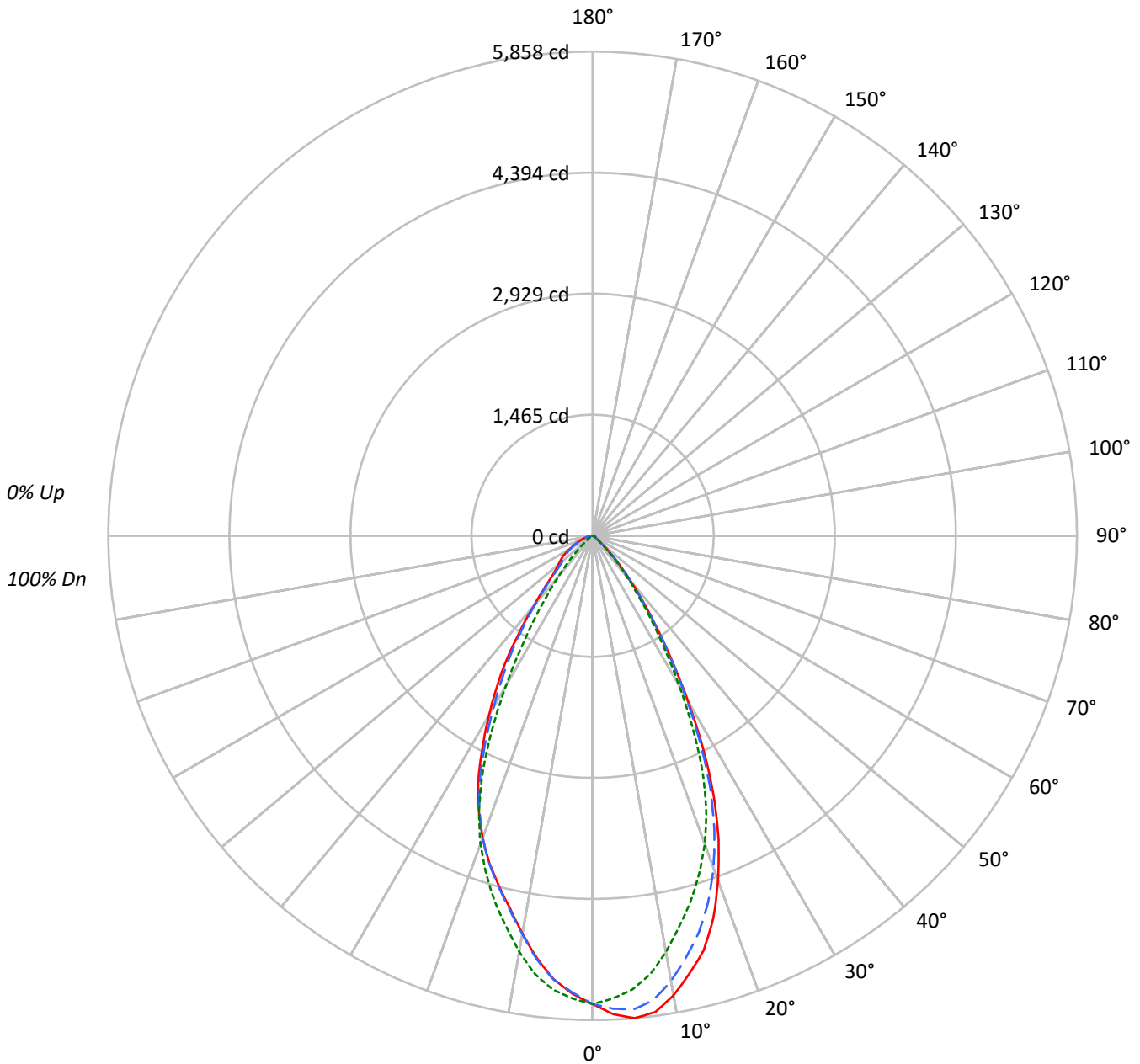
Lumens per Lamp: N/A
Luminaire Lumens: 4877.0 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				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°	310534	310534	310534
5°	322341	303246	296389
10°	314100	284441	271928
15°	294582	259911	248673
20°	258608	231382	226960
25°	209159	190088	197927
30°	145408	132413	158404
35°	89623	81117	119551
40°	50716	45471	79399
45°	24630	23491	54184
50°	9381	9381	46062
55°	5142	6069	42512
60°	3750	4824	34833
65°	3165	4125	28524
70°	2741	3526	23498
75°	2584	3622	20185
80°	1547	3094	14648
85°	1510	6164	13838



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.6	10.6
10°-20°	1303.4	26.7
20°-30°	1467.2	30.1
30°-40°	908.5	18.6
40°-50°	361.8	7.4
50°-60°	164.7	3.4
60°-70°	94.7	1.9
70°-80°	45.0	0.9
80°-90°	13.1	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°	3289.2	67.4
0°-40°	4197.7	86.1
0°-60°	4724.2	96.9
0°-90°	4877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4877.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5665	5665	5665	5665	5665	
5°	5858	5750	5511	5391	5386	552
15°	5190	4966	4580	4394	4382	1436
25°	3458	3365	3143	3221	3272	1554
35°	1339	1332	1212	1689	1786	861
45°	318	318	303	660	699	269
55°	54	51	64	391	445	53
65°	24	22	32	218	220	24
75°	12	12	17	93	95	13
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°	5664.6	5664.6	5664.6	5664.6	5664.6	5664.6	5664.6	5664.6	5664.6
2.5°	5794.1	5740.3	5728.1	5681.7	5603.5	5559.5	5532.6	5513.1	5547.3
5°	5857.6	5799.0	5750.1	5654.8	5510.6	5430.0	5390.9	5359.1	5386.0
7.5°	5811.2	5728.1	5662.1	5530.2	5346.9	5222.3	5168.5	5131.8	5156.3
10°	5642.6	5542.4	5466.6	5310.2	5109.8	4960.8	4894.8	4860.6	4885.0
12.5°	5422.6	5339.6	5224.7	5053.6	4838.6	4682.2	4633.3	4606.4	4616.2
15°	5190.5	5092.7	4965.7	4794.6	4579.6	4423.2	4393.8	4376.7	4381.6
17.5°	4853.3	4757.9	4648.0	4481.8	4283.9	4156.8	4156.8	4144.6	4151.9
20°	4432.9	4381.6	4274.1	4134.8	3966.2	3851.3	3888.0	3875.8	3890.4
22.5°	3978.4	3939.3	3846.4	3731.6	3589.8	3499.4	3580.1	3577.6	3597.2
25°	3457.9	3428.6	3365.0	3267.3	3142.6	3086.4	3220.8	3220.8	3272.2
27.5°	2883.6	2854.3	2810.3	2727.2	2624.6	2607.5	2805.4	2829.8	2886.0
30°	2297.1	2277.6	2253.1	2177.4	2091.8	2123.6	2397.3	2438.8	2502.4
32.5°	1774.2	1761.9	1754.6	1686.2	1610.4	1715.5	2028.3	2082.1	2145.6
35°	1339.2	1312.3	1331.8	1280.5	1212.1	1344.1	1688.6	1735.1	1786.4
37.5°	987.3	967.7	984.8	948.2	887.1	1031.3	1356.3	1385.6	1419.8
40°	708.7	691.6	706.2	684.2	635.4	769.8	1063.0	1094.8	1109.5
42.5°	503.4	474.1	488.7	471.6	447.2	579.2	835.8	865.1	870.0
45°	317.7	307.9	317.7	307.9	303.0	430.1	659.8	686.7	698.9
47.5°	193.1	180.8	180.8	175.9	180.8	317.7	545.0	584.1	603.6
50°	110.0	105.1	102.6	100.2	110.0	249.3	471.6	515.6	540.1
52.5°	73.3	70.9	70.9	68.4	80.6	210.2	425.2	464.3	488.7
55°	53.8	51.3	51.3	51.3	63.5	180.8	391.0	422.8	444.8
57.5°	41.5	41.5	41.5	39.1	53.8	154.0	349.5	366.6	383.7
60°	34.2	31.8	31.8	31.8	44.0	132.0	300.6	307.9	317.7
62.5°	26.9	26.9	26.9	26.9	36.7	117.3	259.0	259.0	263.9
65°	24.4	22.0	22.0	22.0	31.8	102.6	217.5	215.0	219.9
67.5°	19.5	19.5	19.5	19.5	26.9	88.0	178.4	175.9	180.8
70°	17.1	17.1	17.1	17.1	22.0	73.3	144.2	141.7	146.6
72.5°	14.7	14.7	14.7	14.7	19.5	61.1	114.9	114.9	117.3
75°	12.2	12.2	12.2	12.2	17.1	46.4	92.9	92.9	95.3
77.5°	9.8	9.8	9.8	9.8	12.2	36.7	70.9	68.4	68.4
80°	4.9	7.3	7.3	7.3	9.8	26.9	51.3	46.4	46.4
82.5°	2.4	4.9	4.9	4.9	9.8	19.5	34.2	31.8	31.8
85°	2.4	2.4	2.4	7.3	9.8	14.7	22.0	22.0	22.0
87.5°	0.0	2.4	4.9	9.8	12.2	12.2	14.7	12.2	12.2
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)