

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: P799775

Luminaire Tested: **LD6C50D010 EU6509027 6LBMDDWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799775
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 EU6509027 6LBMDDWMW
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDDW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

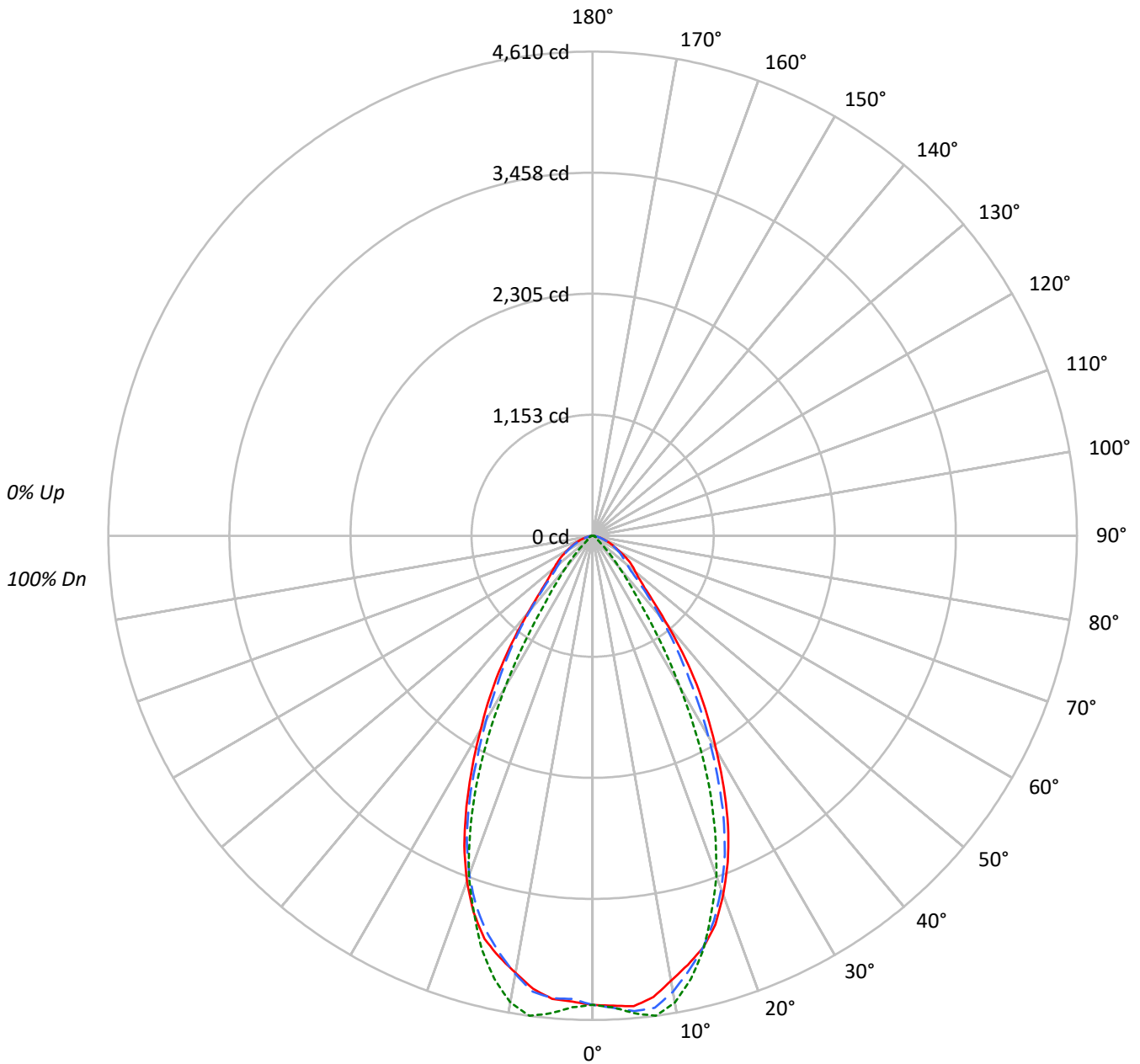
Lumens per Lamp: N/A
Luminaire Lumens: 4547.0 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91				91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83				83
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76				76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70				70
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64				64
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59				59
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55				55
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51				51
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48				48
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45				45

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	244849	244849	244849
5°	247407	251155	243533
10°	239391	251153	235216
15°	230404	231307	225506
20°	212054	200917	204103
25°	184547	158441	171905
30°	148839	105269	135033
35°	115395	54275	101409
40°	79177	28124	68285
45°	54246	14087	47904
50°	45141	6004	41073
55°	40601	5209	36692
60°	32136	4978	30634
65°	26527	4423	26228
70°	21478	4007	21478
75°	15886	4321	16839
80°	9313	3599	10039
85°	7170	4277	7170



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.1	9.4
10°-20°	1115.9	24.5
20°-30°	1273.7	28.0
30°-40°	844.7	18.6
40°-50°	407.4	9.0
50°-60°	250.6	5.5
60°-70°	151.6	3.3
70°-80°	63.8	1.4
80°-90°	14.1	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°	2814.8	61.9
0°-40°	3659.4	80.5
0°-60°	4317.5	95.0
0°-90°	4547.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4547.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4466	4466	4466	4466	4466	
5°	4496	4544	4564	4419	4426	422
15°	4060	4060	4076	3903	3973	1131
25°	3051	2949	2619	2772	2842	1383
35°	1724	1520	811	1418	1515	1066
45°	700	613	182	572	618	571
55°	425	345	54	345	384	373
65°	204	195	34	184	202	205
75°	75	75	20	70	80	80
85°	11	16	7	11	11	15
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°	4466.4	4466.4	4466.4	4466.4	4466.4	4466.4	4466.4	4466.4	4466.4
2.5°	4477.7	4484.5	4498.2	4500.4	4493.6	4450.5	4414.1	4427.7	4439.1
5°	4495.9	4509.5	4543.6	4575.4	4564.0	4491.3	4418.6	4416.4	4425.5
7.5°	4430.0	4461.8	4532.2	4611.7	4609.5	4484.5	4377.8	4350.5	4350.5
10°	4300.5	4330.0	4407.3	4514.1	4511.8	4355.0	4236.9	4223.3	4225.5
12.5°	4184.7	4198.3	4236.9	4321.0	4321.0	4166.5	4075.6	4089.2	4107.4
15°	4059.7	4068.8	4059.7	4087.0	4075.6	3948.4	3902.9	3946.1	3973.4
17.5°	3882.5	3887.0	3839.3	3803.0	3759.8	3680.3	3691.7	3755.3	3762.1
20°	3634.9	3664.4	3578.1	3484.9	3444.0	3369.1	3432.7	3503.1	3498.6
22.5°	3362.3	3396.3	3285.0	3130.5	3046.5	3016.9	3130.5	3194.1	3191.9
25°	3051.0	3076.0	2948.8	2733.0	2619.4	2614.8	2771.6	2837.5	2842.0
27.5°	2701.2	2710.3	2567.1	2285.4	2144.6	2178.7	2376.3	2467.2	2478.5
30°	2351.3	2346.8	2199.1	1849.2	1663.0	1756.1	2021.9	2121.9	2133.2
32.5°	2031.0	2017.4	1849.2	1431.2	1208.6	1347.2	1697.0	1801.5	1819.7
35°	1724.3	1701.6	1519.8	1058.7	811.0	1017.8	1417.6	1508.5	1515.3
37.5°	1404.0	1392.6	1249.5	792.9	565.7	772.4	1156.3	1222.2	1215.4
40°	1106.4	1106.4	988.2	588.4	393.0	574.8	915.5	974.6	954.2
42.5°	867.8	879.2	779.2	433.9	279.4	427.1	724.7	779.2	756.5
45°	699.7	699.7	613.4	322.6	181.7	318.1	572.5	622.5	617.9
47.5°	592.9	583.9	497.5	236.3	100.0	238.5	481.6	543.0	540.7
50°	529.3	515.7	427.1	186.3	70.4	197.6	422.6	479.3	481.6
52.5°	479.3	458.9	383.9	165.8	61.3	172.7	383.9	429.4	429.4
55°	424.8	413.5	345.3	147.7	54.5	154.5	345.3	386.2	383.9
57.5°	358.9	356.7	309.0	134.0	50.0	136.3	309.0	334.0	324.9
60°	293.1	302.1	268.1	120.4	45.4	122.7	263.5	284.0	279.4
62.5°	245.4	256.7	234.0	106.8	38.6	109.0	222.6	243.1	238.5
65°	204.5	213.5	195.4	90.9	34.1	90.9	184.0	202.2	202.2
67.5°	168.1	174.9	161.3	75.0	29.5	75.0	149.9	165.8	168.1
70°	134.0	138.6	127.2	59.1	25.0	61.3	118.1	134.0	134.0
72.5°	104.5	106.8	100.0	47.7	22.7	47.7	90.9	104.5	104.5
75°	75.0	79.5	75.0	36.3	20.4	36.3	70.4	77.2	79.5
77.5°	43.2	54.5	54.5	29.5	15.9	27.3	50.0	52.3	52.3
80°	29.5	34.1	38.6	20.4	11.4	20.4	31.8	34.1	31.8
82.5°	20.4	22.7	22.7	13.6	9.1	13.6	20.4	22.7	20.4
85°	11.4	15.9	15.9	11.4	6.8	9.1	11.4	13.6	11.4
87.5°	6.8	9.1	11.4	9.1	6.8	6.8	6.8	6.8	4.5
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)