

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: P799789

Luminaire Tested: **LD6C50D010 EU6509030 6LBMDDWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799789
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 EU6509030 6LBMDDWWMH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

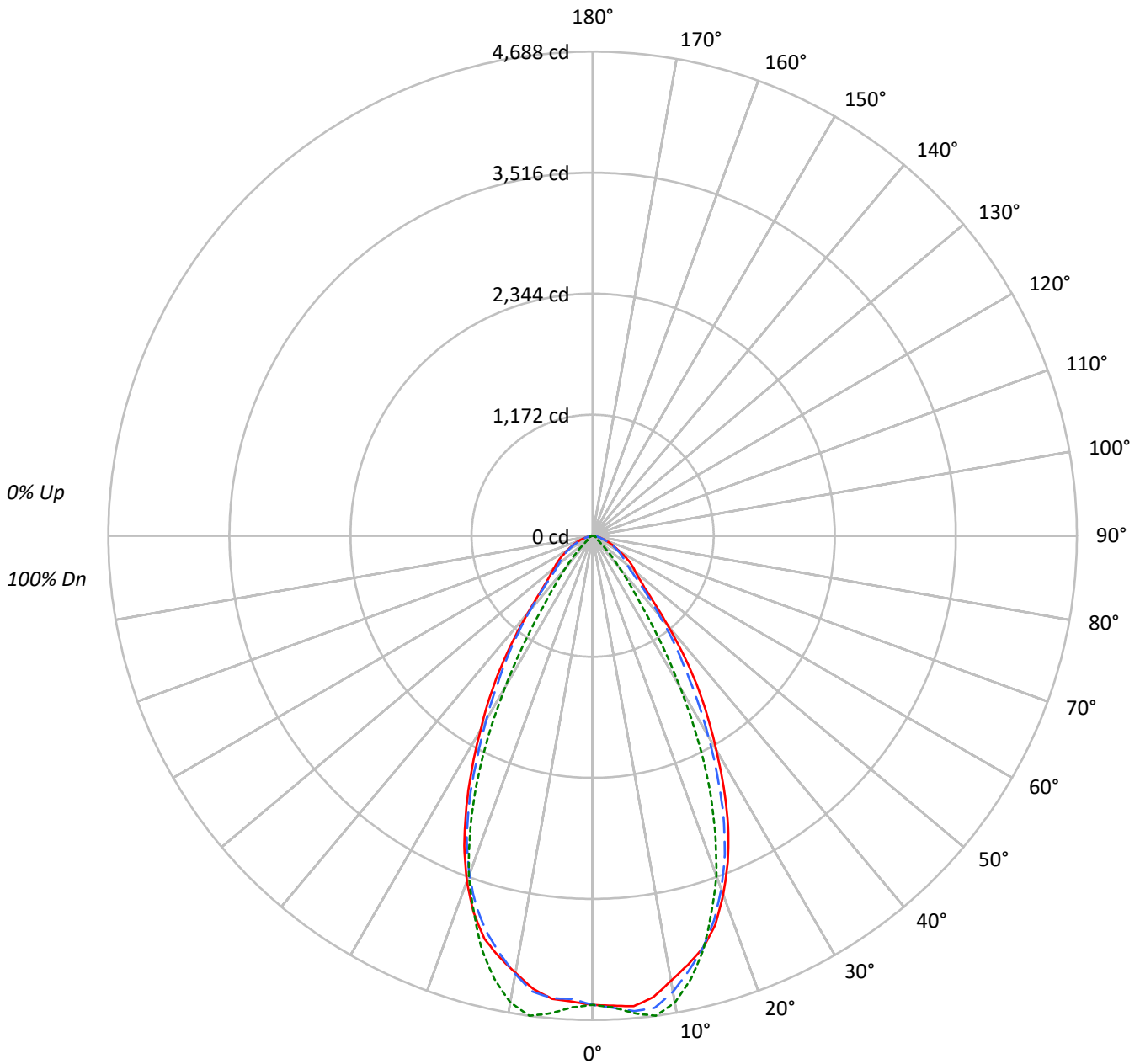
Lumens per Lamp: N/A
Luminaire Lumens: 4624.0 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P799789

CATALOG NUMBER: LD6C50D010 EU6509030 6LBMDDWWMH

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	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°	248993	248993	248993
5°	251595	255409	247655
10°	243443	255406	239202
15°	234309	235223	229326
20°	215642	204324	207556
25°	187674	161120	174815
30°	151359	107048	137319
35°	117350	55198	103122
40°	80515	28604	69437
45°	55169	14327	48718
50°	45909	6106	41773
55°	41289	5295	37313
60°	32673	5065	31160
65°	26968	4501	26670
70°	21847	4071	21847
75°	16140	4406	17135
80°	9471	3662	10197
85°	7296	4340	7296



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.3	9.4
10°-20°	1134.8	24.5
20°-30°	1295.3	28.0
30°-40°	859.0	18.6
40°-50°	414.3	9.0
50°-60°	254.9	5.5
60°-70°	154.2	3.3
70°-80°	64.9	1.4
80°-90°	14.3	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°	2862.4	61.9
0°-40°	3721.4	80.5
0°-60°	4390.6	95.0
0°-90°	4624.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4624.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4542	4542	4542	4542	4542	
5°	4572	4620	4641	4494	4500	430
15°	4128	4128	4145	3969	4041	1150
25°	3103	2999	2664	2818	2890	1407
35°	1754	1546	825	1442	1541	1085
45°	712	624	185	582	628	580
55°	432	351	55	351	390	380
65°	208	199	35	187	206	209
75°	76	76	21	72	81	81
85°	12	16	7	12	12	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°	4542.0	4542.0	4542.0	4542.0	4542.0	4542.0	4542.0	4542.0	4542.0
2.5°	4553.5	4560.5	4574.3	4576.6	4569.7	4525.8	4488.9	4502.7	4514.3
5°	4572.0	4585.9	4620.5	4652.9	4641.3	4567.4	4493.5	4491.2	4500.4
7.5°	4505.0	4537.4	4609.0	4689.8	4687.5	4560.5	4451.9	4424.2	4424.2
10°	4373.3	4403.4	4481.9	4590.5	4588.2	4428.8	4308.7	4294.8	4297.1
12.5°	4255.5	4269.4	4308.7	4394.1	4394.1	4237.0	4144.6	4158.5	4177.0
15°	4128.5	4137.7	4128.5	4156.2	4144.6	4015.2	3969.0	4012.9	4040.7
17.5°	3948.2	3952.9	3904.4	3867.4	3823.5	3742.6	3754.2	3818.9	3825.8
20°	3696.4	3726.5	3638.7	3544.0	3502.4	3426.1	3490.8	3562.4	3557.8
22.5°	3419.2	3453.9	3340.6	3183.6	3098.1	3068.0	3183.6	3248.2	3245.9
25°	3102.7	3128.1	2998.7	2779.3	2663.7	2659.1	2818.5	2885.5	2890.1
27.5°	2746.9	2756.2	2610.6	2324.1	2180.9	2215.5	2416.5	2509.0	2520.5
30°	2391.1	2386.5	2236.3	1880.6	1691.1	1785.8	2056.1	2157.8	2169.3
32.5°	2065.4	2051.5	1880.6	1455.5	1229.1	1370.0	1725.8	1832.0	1850.5
35°	1753.5	1730.4	1545.6	1076.6	824.8	1035.0	1441.6	1534.0	1540.9
37.5°	1427.7	1416.2	1270.6	806.3	575.3	785.5	1175.9	1242.9	1236.0
40°	1125.1	1125.1	1005.0	598.4	399.7	584.5	931.0	991.1	970.3
42.5°	882.5	894.1	792.4	441.3	284.2	434.3	737.0	792.4	769.3
45°	711.6	711.6	623.8	328.1	184.8	323.4	582.2	633.0	628.4
47.5°	603.0	593.7	505.9	240.3	101.7	242.6	489.8	552.2	549.8
50°	538.3	524.4	434.3	189.4	71.6	201.0	429.7	487.5	489.8
52.5°	487.5	466.7	390.4	168.6	62.4	175.6	390.4	436.6	436.6
55°	432.0	420.5	351.2	150.2	55.4	157.1	351.2	392.7	390.4
57.5°	365.0	362.7	314.2	136.3	50.8	138.6	314.2	339.6	330.4
60°	298.0	307.3	272.6	122.4	46.2	124.8	268.0	288.8	284.2
62.5°	249.5	261.1	238.0	108.6	39.3	110.9	226.4	247.2	242.6
65°	207.9	217.2	198.7	92.4	34.7	92.4	187.1	205.6	205.6
67.5°	171.0	177.9	164.0	76.2	30.0	76.2	152.5	168.6	171.0
70°	136.3	140.9	129.4	60.1	25.4	62.4	120.1	136.3	136.3
72.5°	106.3	108.6	101.7	48.5	23.1	48.5	92.4	106.3	106.3
75°	76.2	80.9	76.2	37.0	20.8	37.0	71.6	78.5	80.9
77.5°	43.9	55.4	55.4	30.0	16.2	27.7	50.8	53.1	53.1
80°	30.0	34.7	39.3	20.8	11.6	20.8	32.3	34.7	32.3
82.5°	20.8	23.1	23.1	13.9	9.2	13.9	20.8	23.1	20.8
85°	11.6	16.2	16.2	11.6	6.9	9.2	11.6	13.9	11.6
87.5°	6.9	9.2	11.6	9.2	6.9	6.9	6.9	6.9	4.6
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)