

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: P799717

Luminaire Tested: **LD6C45D010 EU6459027 6LBMDDWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799717
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: LD6C45D010 EU6459027 6LBMDDWWMH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDDW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

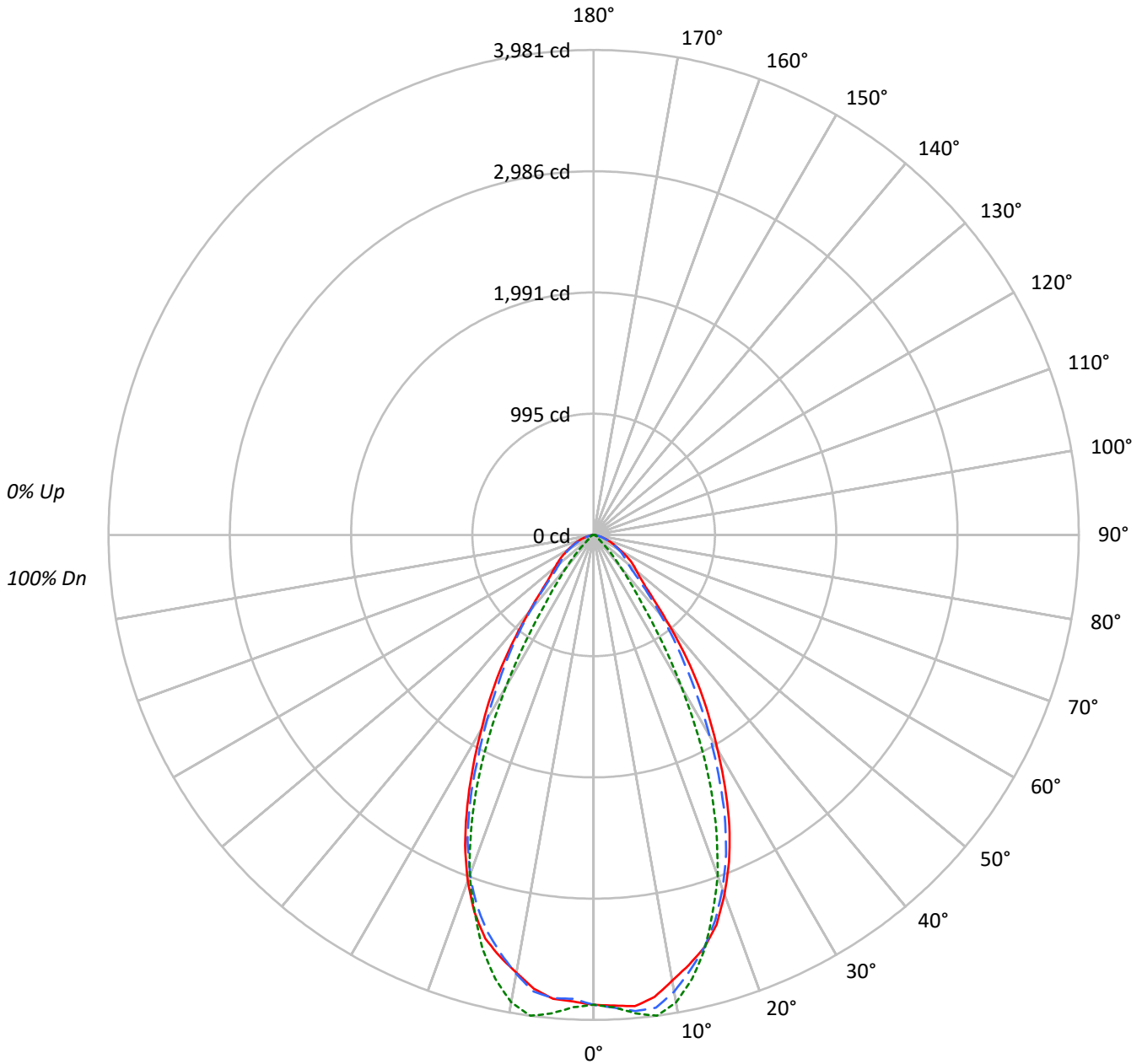
Lumens per Lamp: N/A
Luminaire Lumens: 3927.0 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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: P799717

CATALOG NUMBER: LD6C45D010 EU6459027 6LBMDDWWMH

Luminous Intensity Polar Plot





TEST NUMBER: P799717

CATALOG NUMBER: LD6C45D010 EU6459027 6LBMDDWWMH

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°	211463	211463	211463
5°	213674	216910	210323
10°	206749	216908	203147
15°	198985	199768	194757
20°	183136	173522	176269
25°	159384	136835	148466
30°	128545	90913	116619
35°	99662	46873	87582
40°	68378	24288	58975
45°	46850	12172	41376
50°	38992	5185	35479
55°	35067	4502	31693
60°	27750	4298	26456
65°	22908	3814	22648
70°	18561	3462	18561
75°	13704	3749	14551
80°	8050	3094	8682
85°	6164	3711	6164



TEST NUMBER: P799717

CATALOG NUMBER: LD6C45D010 EU6459027 6LBMDDWWMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.2	9.4
10°-20°	963.7	24.5
20°-30°	1100.0	28.0
30°-40°	729.5	18.6
40°-50°	351.9	9.0
50°-60°	216.4	5.5
60°-70°	131.0	3.3
70°-80°	55.1	1.4
80°-90°	12.2	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°	2431.0	61.9
0°-40°	3160.5	80.5
0°-60°	3728.8	95.0
0°-90°	3927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3927.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3857	3857	3857	3857	3857	
5°	3883	3924	3942	3816	3822	365
15°	3506	3506	3520	3371	3432	977
25°	2635	2547	2262	2394	2454	1195
35°	1489	1313	700	1224	1309	921
45°	604	530	157	494	534	493
55°	367	298	47	298	332	323
65°	177	169	29	159	175	177
75°	65	65	18	61	69	69
85°	10	14	6	10	10	13
90°	0	0	0	0	0	



TEST NUMBER: P799717

CATALOG NUMBER: LD6C45D010 EU6459027 6LBMDDWWMH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	3857.4	3857.4	3857.4	3857.4	3857.4	3857.4	3857.4	3857.4	3857.4
2.5°	3867.2	3873.0	3884.8	3886.8	3880.9	3843.6	3812.2	3824.0	3833.8
5°	3882.9	3894.6	3924.1	3951.5	3941.7	3878.9	3816.1	3814.2	3822.0
7.5°	3826.0	3853.4	3914.2	3982.9	3981.0	3873.0	3780.8	3757.3	3757.3
10°	3714.1	3739.6	3806.3	3898.6	3896.6	3761.2	3659.2	3647.4	3649.4
12.5°	3614.1	3625.8	3659.2	3731.8	3731.8	3598.4	3519.9	3531.7	3547.3
15°	3506.1	3514.0	3506.1	3529.7	3519.9	3410.0	3370.8	3408.0	3431.6
17.5°	3353.1	3357.0	3315.8	3284.4	3247.2	3178.5	3188.3	3243.2	3249.1
20°	3139.2	3164.8	3090.2	3009.8	2974.4	2909.7	2964.6	3025.4	3021.5
22.5°	2903.8	2933.2	2837.1	2703.7	2631.1	2605.6	2703.7	2758.6	2756.7
25°	2635.0	2656.6	2546.7	2360.3	2262.2	2258.3	2393.7	2450.6	2454.5
27.5°	2332.9	2340.7	2217.1	1973.8	1852.2	1881.6	2052.3	2130.8	2140.6
30°	2030.7	2026.8	1899.2	1597.1	1436.2	1516.6	1746.2	1832.5	1842.3
32.5°	1754.1	1742.3	1597.1	1236.1	1043.8	1163.5	1465.6	1555.9	1571.6
35°	1489.2	1469.6	1312.6	914.3	700.4	879.0	1224.3	1302.8	1308.7
37.5°	1212.5	1202.7	1079.1	684.7	488.5	667.1	998.7	1055.6	1049.7
40°	955.5	955.5	853.5	508.2	339.4	496.4	790.7	841.7	824.1
42.5°	749.5	759.3	673.0	374.7	241.3	368.9	625.9	673.0	653.4
45°	604.3	604.3	529.7	278.6	157.0	274.7	494.4	537.6	533.7
47.5°	512.1	504.2	429.7	204.1	86.3	206.0	416.0	468.9	467.0
50°	457.2	445.4	368.9	160.9	60.8	170.7	364.9	414.0	416.0
52.5°	414.0	396.3	331.6	143.2	53.0	149.1	331.6	370.8	370.8
55°	366.9	357.1	298.2	127.5	47.1	133.4	298.2	333.5	331.6
57.5°	310.0	308.0	266.8	115.8	43.2	117.7	266.8	288.4	280.6
60°	253.1	260.9	231.5	104.0	39.2	105.9	227.6	245.3	241.3
62.5°	211.9	221.7	202.1	92.2	33.4	94.2	192.3	209.9	206.0
65°	176.6	184.4	168.7	78.5	29.4	78.5	158.9	174.6	174.6
67.5°	145.2	151.1	139.3	64.7	25.5	64.7	129.5	143.2	145.2
70°	115.8	119.7	109.9	51.0	21.6	53.0	102.0	115.8	115.8
72.5°	90.3	92.2	86.3	41.2	19.6	41.2	78.5	90.3	90.3
75°	64.7	68.7	64.7	31.4	17.7	31.4	60.8	66.7	68.7
77.5°	37.3	47.1	47.1	25.5	13.7	23.5	43.2	45.1	45.1
80°	25.5	29.4	33.4	17.7	9.8	17.7	27.5	29.4	27.5
82.5°	17.7	19.6	19.6	11.8	7.8	11.8	17.7	19.6	17.7
85°	9.8	13.7	13.7	9.8	5.9	7.8	9.8	11.8	9.8
87.5°	5.9	7.8	9.8	7.8	5.9	5.9	5.9	5.9	3.9
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)