

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: P799820

Luminaire Tested: **LD6C50D010 EU6509050 6LBMDDWGPB**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799820
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 EU6509050 6LBMDDWGPH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

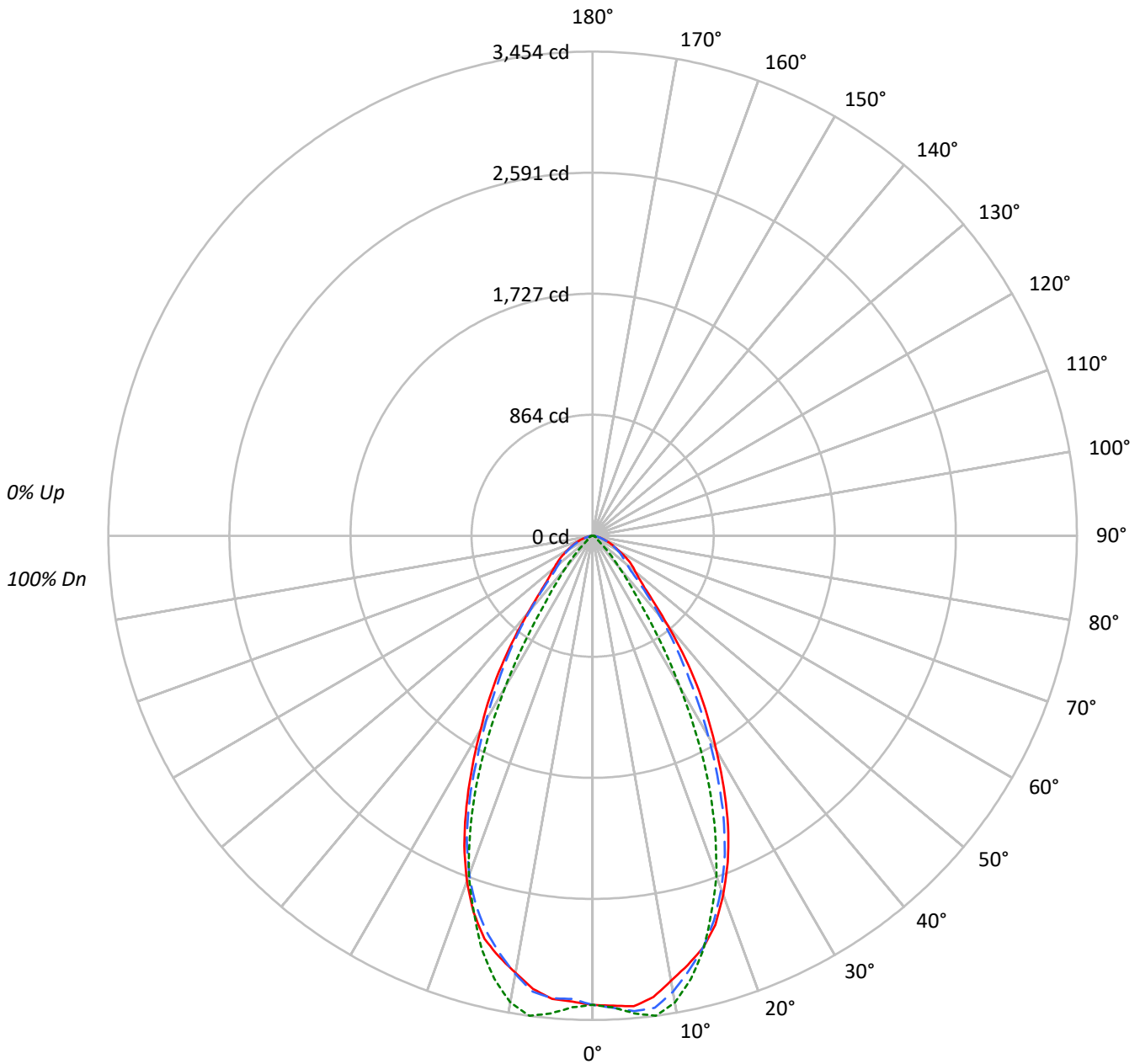
Lumens per Lamp: N/A
Luminaire Lumens: 3407.0 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				
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°	183461	183461	183461
5°	185378	188190	182473
10°	179372	188184	176244
15°	172640	173315	168968
20°	158890	150548	152928
25°	138280	118719	128808
30°	111523	78873	101180
35°	86465	40669	75984
40°	59325	21075	51160
45°	40648	10559	35895
50°	33824	4503	30779
55°	30422	3909	27497
60°	24077	3728	22959
65°	19872	3308	19652
70°	16092	2997	16092
75°	11904	3241	12624
80°	6977	2683	7514
85°	5346	3208	5346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.6	9.4
10°-20°	836.1	24.5
20°-30°	954.4	28.0
30°-40°	632.9	18.6
40°-50°	305.3	9.0
50°-60°	187.8	5.5
60°-70°	113.6	3.3
70°-80°	47.8	1.4
80°-90°	10.5	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°	2109.1	61.9
0°-40°	2742.0	80.5
0°-60°	3235.0	95.0
0°-90°	3407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3407.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3347	3347	3347	3347	3347	
5°	3369	3404	3420	3311	3316	317
15°	3042	3042	3054	2924	2977	848
25°	2286	2210	1963	2077	2130	1037
35°	1292	1139	608	1062	1135	799
45°	524	460	136	429	463	428
55°	318	259	41	259	288	280
65°	153	146	26	138	152	154
75°	56	56	15	53	60	60
85°	8	12	5	8	8	11
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°	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6	3346.6
2.5°	3355.1	3360.2	3370.4	3372.1	3367.0	3334.7	3307.4	3317.6	3326.1
5°	3368.7	3378.9	3404.4	3428.3	3419.8	3365.3	3310.8	3309.1	3315.9
7.5°	3319.3	3343.2	3395.9	3455.5	3453.8	3360.2	3280.2	3259.8	3259.8
10°	3222.3	3244.4	3302.3	3382.3	3380.6	3263.2	3174.6	3164.4	3166.1
12.5°	3135.5	3145.7	3174.6	3237.6	3237.6	3121.9	3053.8	3064.0	3077.6
15°	3041.9	3048.7	3041.9	3062.3	3053.8	2958.5	2924.4	2956.8	2977.2
17.5°	2909.1	2912.5	2876.8	2849.5	2817.2	2757.6	2766.1	2813.8	2818.9
20°	2723.6	2745.7	2681.0	2611.2	2580.6	2524.4	2572.1	2624.8	2621.4
22.5°	2519.3	2544.8	2461.4	2345.7	2282.7	2260.6	2345.7	2393.3	2391.6
25°	2286.1	2304.8	2209.5	2047.8	1962.7	1959.3	2076.7	2126.1	2129.5
27.5°	2023.9	2030.8	1923.5	1712.4	1606.9	1632.4	1780.5	1848.6	1857.1
30°	1761.8	1758.4	1647.8	1385.6	1246.0	1315.8	1515.0	1589.9	1598.4
32.5°	1521.8	1511.6	1385.6	1072.4	905.6	1009.4	1271.6	1349.9	1363.5
35°	1292.0	1275.0	1138.8	793.2	607.7	762.6	1062.2	1130.3	1135.4
37.5°	1052.0	1043.5	936.2	594.1	423.9	578.8	866.4	915.8	910.7
40°	829.0	829.0	740.5	440.9	294.5	430.7	686.0	730.3	714.9
42.5°	650.2	658.8	583.9	325.1	209.4	320.0	543.0	583.9	566.8
45°	524.3	524.3	459.6	241.7	136.2	238.3	429.0	466.4	463.0
47.5°	444.3	437.5	372.8	177.0	74.9	178.7	360.9	406.8	405.1
50°	396.6	386.4	320.0	139.6	52.8	148.1	316.6	359.2	360.9
52.5°	359.2	343.8	287.7	124.3	46.0	129.4	287.7	321.7	321.7
55°	318.3	309.8	258.7	110.6	40.9	115.8	258.7	289.4	287.7
57.5°	269.0	267.2	231.5	100.4	37.4	102.1	231.5	250.2	243.4
60°	219.6	226.4	200.9	90.2	34.0	91.9	197.5	212.8	209.4
62.5°	183.8	192.4	175.3	80.0	28.9	81.7	166.8	182.1	178.7
65°	153.2	160.0	146.4	68.1	25.5	68.1	137.9	151.5	151.5
67.5°	126.0	131.1	120.9	56.2	22.1	56.2	112.3	124.3	126.0
70°	100.4	103.8	95.3	44.3	18.7	46.0	88.5	100.4	100.4
72.5°	78.3	80.0	74.9	35.7	17.0	35.7	68.1	78.3	78.3
75°	56.2	59.6	56.2	27.2	15.3	27.2	52.8	57.9	59.6
77.5°	32.3	40.9	40.9	22.1	11.9	20.4	37.4	39.2	39.2
80°	22.1	25.5	28.9	15.3	8.5	15.3	23.8	25.5	23.8
82.5°	15.3	17.0	17.0	10.2	6.8	10.2	15.3	17.0	15.3
85°	8.5	11.9	11.9	8.5	5.1	6.8	8.5	10.2	8.5
87.5°	5.1	6.8	8.5	6.8	5.1	5.1	5.1	5.1	3.4
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)