

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: P799784

Luminaire Tested: **LD6C50D010 EU6509030 6LBMDDWGPB**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799784
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 6LBMDDWGPH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

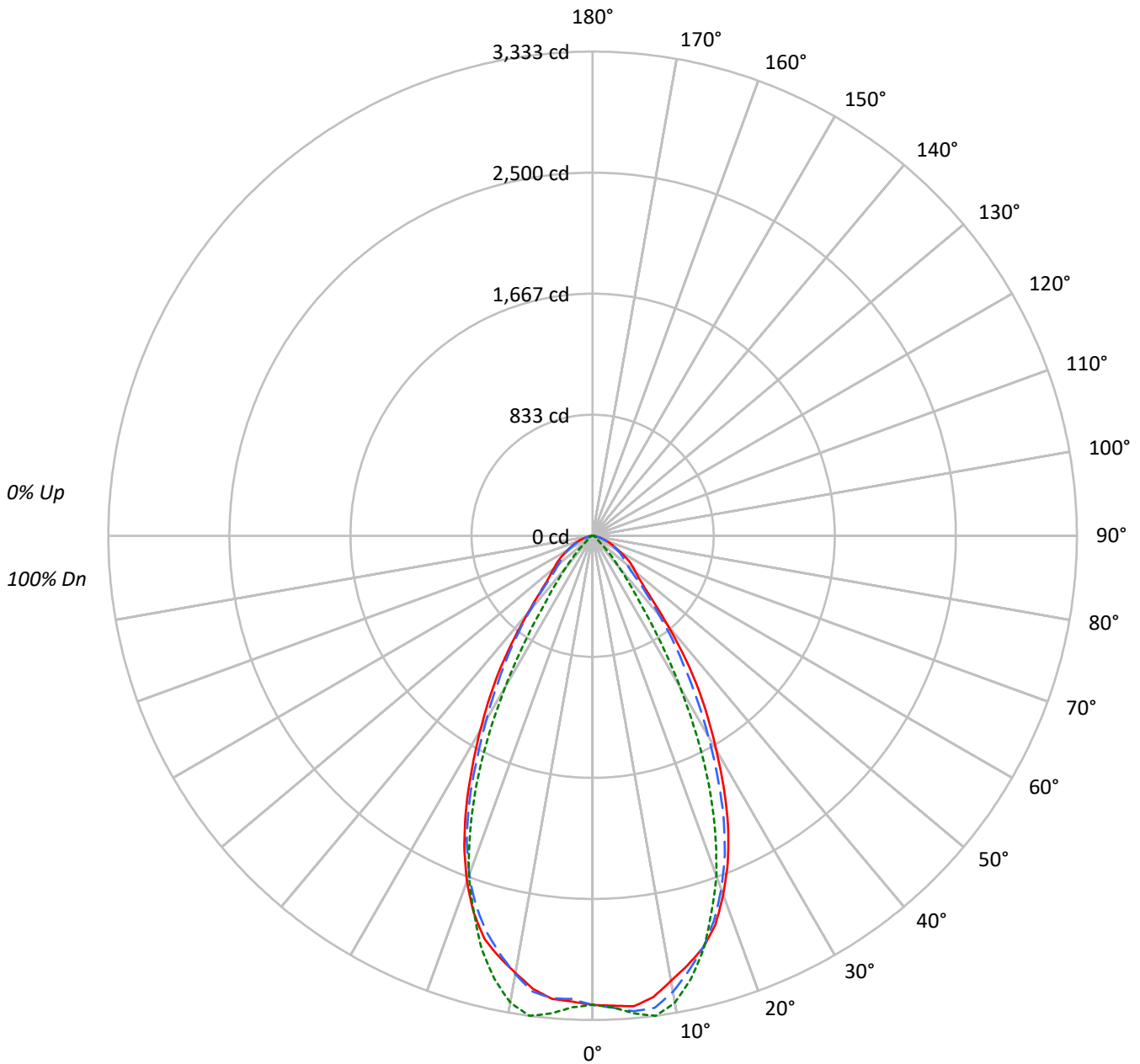
Lumens per Lamp: N/A
Luminaire Lumens: 3288.0 lumens
Efficiency: N/A
Efficacy: 56.3 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P799784

CATALOG NUMBER: LD6C50D010 EU6509030 6LBMDDWGPH

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91																			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70																			
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64																			
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59																			
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55																			
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51																			
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48																			
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	177053	177053	177053
5°	178901	181614	176100
10°	173110	181610	170093
15°	166607	167260	163066
20°	153337	145286	147590
25°	133447	114569	124308
30°	107630	76119	97648
35°	83446	39250	73328
40°	57250	20338	49378
45°	39229	10187	34639
50°	32647	4341	29705
55°	29361	3766	26532
60°	23233	3607	22158
65°	19172	3191	18964
70°	15531	2901	15531
75°	11480	3135	12179
80°	6756	2589	7261
85°	5158	3082	5158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.4	9.4
10°-20°	806.9	24.5
20°-30°	921.0	28.0
30°-40°	610.8	18.6
40°-50°	294.6	9.0
50°-60°	181.2	5.5
60°-70°	109.7	3.3
70°-80°	46.1	1.4
80°-90°	10.2	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°	2035.4	61.9
0°-40°	2646.2	80.5
0°-60°	3122.0	95.0
0°-90°	3288.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3288.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3230	3230	3230	3230	3230	
5°	3251	3286	3300	3195	3200	305
15°	2936	2936	2947	2822	2873	818
25°	2206	2132	1894	2004	2055	1000
35°	1247	1099	586	1025	1096	771
45°	506	444	131	414	447	413
55°	307	250	39	250	278	270
65°	148	141	25	133	146	148
75°	54	54	15	51	58	58
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°	3229.7	3229.7	3229.7	3229.7	3229.7	3229.7	3229.7	3229.7	3229.7
2.5°	3237.9	3242.8	3252.7	3254.3	3249.4	3218.2	3191.9	3201.8	3210.0
5°	3251.0	3260.9	3285.5	3308.5	3300.3	3247.8	3195.2	3193.5	3200.1
7.5°	3203.4	3226.4	3277.3	3334.8	3333.2	3242.8	3165.6	3145.9	3145.9
10°	3109.8	3131.1	3187.0	3264.2	3262.5	3149.2	3063.8	3053.9	3055.6
12.5°	3026.0	3035.8	3063.8	3124.5	3124.5	3012.8	2947.1	2957.0	2970.1
15°	2935.6	2942.2	2935.6	2955.3	2947.1	2855.1	2822.3	2853.5	2873.2
17.5°	2807.5	2810.8	2776.3	2750.0	2718.8	2661.3	2669.5	2715.5	2720.4
20°	2628.4	2649.8	2587.4	2520.0	2490.4	2436.2	2482.2	2533.1	2529.9
22.5°	2431.3	2455.9	2375.4	2263.7	2203.0	2181.6	2263.7	2309.7	2308.1
25°	2206.2	2224.3	2132.3	1976.3	1894.1	1890.8	2004.2	2051.8	2055.1
27.5°	1953.3	1959.8	1856.3	1652.6	1550.8	1575.4	1718.3	1784.0	1792.3
30°	1700.3	1697.0	1590.2	1337.2	1202.5	1269.9	1462.1	1534.3	1542.6
32.5°	1468.6	1458.8	1337.2	1034.9	874.0	974.2	1227.1	1302.7	1315.9
35°	1246.9	1230.4	1099.0	765.5	586.5	736.0	1025.1	1090.8	1095.7
37.5°	1015.2	1007.0	903.5	573.3	409.0	558.5	836.2	883.8	878.9
40°	800.0	800.0	714.6	425.5	284.2	415.6	662.0	704.7	690.0
42.5°	627.5	635.8	563.5	313.8	202.1	308.8	524.0	563.5	547.0
45°	506.0	506.0	443.5	233.3	131.4	230.0	414.0	450.1	446.8
47.5°	428.8	422.2	359.8	170.8	72.3	172.5	348.3	392.6	391.0
50°	382.8	372.9	308.8	134.7	50.9	142.9	305.6	346.6	348.3
52.5°	346.6	331.8	277.6	119.9	44.4	124.9	277.6	310.5	310.5
55°	307.2	299.0	249.7	106.8	39.4	111.7	249.7	279.3	277.6
57.5°	259.6	257.9	223.4	96.9	36.1	98.6	223.4	241.5	234.9
60°	211.9	218.5	193.8	87.1	32.9	88.7	190.6	205.3	202.1
62.5°	177.4	185.6	169.2	77.2	27.9	78.9	161.0	175.8	172.5
65°	147.8	154.4	141.3	65.7	24.6	65.7	133.1	146.2	146.2
67.5°	121.6	126.5	116.6	54.2	21.4	54.2	108.4	119.9	121.6
70°	96.9	100.2	92.0	42.7	18.1	44.4	85.4	96.9	96.9
72.5°	75.6	77.2	72.3	34.5	16.4	34.5	65.7	75.6	75.6
75°	54.2	57.5	54.2	26.3	14.8	26.3	50.9	55.9	57.5
77.5°	31.2	39.4	39.4	21.4	11.5	19.7	36.1	37.8	37.8
80°	21.4	24.6	27.9	14.8	8.2	14.8	23.0	24.6	23.0
82.5°	14.8	16.4	16.4	9.9	6.6	9.9	14.8	16.4	14.8
85°	8.2	11.5	11.5	8.2	4.9	6.6	8.2	9.9	8.2
87.5°	4.9	6.6	8.2	6.6	4.9	4.9	4.9	4.9	3.3
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)