

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: P799772

Luminaire Tested: **LD6C50D010 EU6509027 6LBMDDWGPB**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799772
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 6LBMDDWGPH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDDW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

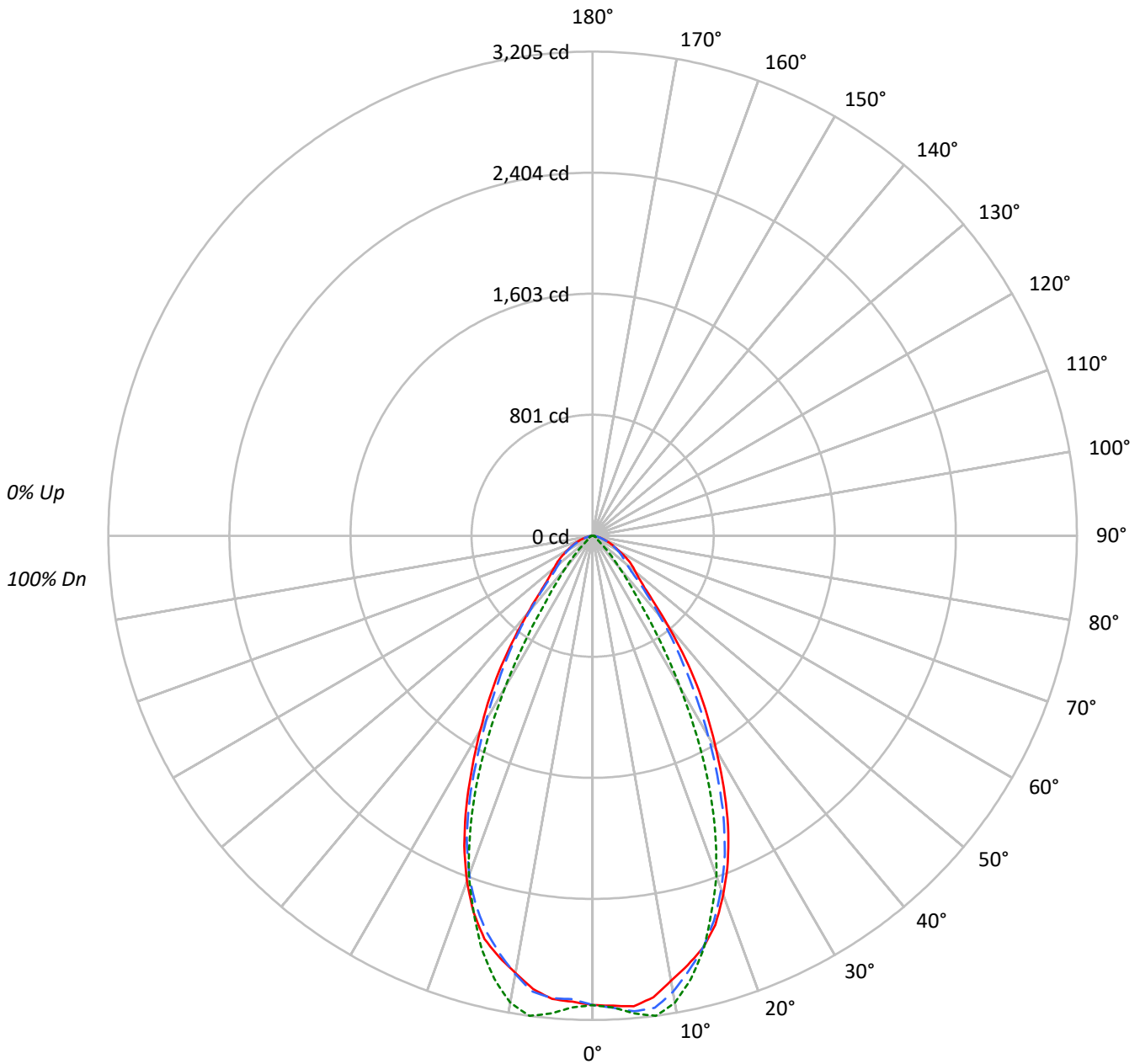
Lumens per Lamp: N/A
Luminaire Lumens: 3162.0 lumens
Efficiency: N/A
Efficacy: 54.1 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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								
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°	170266	170266	170266
5°	172050	174658	169354
10°	166474	174652	163574
15°	160222	160852	156817
20°	147462	139720	141932
25°	128336	110178	119547
30°	103503	73201	93901
35°	80247	37745	70517
40°	55060	19558	47482
45°	37725	9799	33314
50°	31393	4179	28562
55°	28233	3622	25519
60°	22345	3465	21303
65°	18446	3074	18238
70°	14938	2789	14938
75°	11035	3008	11713
80°	6472	2494	6977
85°	4969	2956	4969



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.7	9.4
10°-20°	776.0	24.5
20°-30°	885.7	28.0
30°-40°	587.4	18.6
40°-50°	283.3	9.0
50°-60°	174.3	5.5
60°-70°	105.5	3.3
70°-80°	44.4	1.4
80°-90°	9.8	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°	1957.4	61.9
0°-40°	2544.8	80.5
0°-60°	3002.4	95.0
0°-90°	3162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3162.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3106	3106	3106	3106	3106	
5°	3126	3160	3174	3073	3078	294
15°	2823	2823	2834	2714	2763	787
25°	2122	2051	1822	1927	1976	962
35°	1199	1057	564	986	1054	742
45°	487	427	126	398	430	397
55°	295	240	38	240	267	260
65°	142	136	24	128	141	143
75°	52	52	14	49	55	56
85°	8	11	5	8	8	10
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°	3105.9	3105.9	3105.9	3105.9	3105.9	3105.9	3105.9	3105.9	3105.9
2.5°	3113.8	3118.6	3128.0	3129.6	3124.9	3094.9	3069.6	3079.1	3087.0
5°	3126.5	3135.9	3159.6	3181.7	3173.9	3123.3	3072.7	3071.2	3077.5
7.5°	3080.6	3102.8	3151.7	3207.0	3205.4	3118.6	3044.3	3025.3	3025.3
10°	2990.6	3011.1	3064.8	3139.1	3137.5	3028.5	2946.4	2936.9	2938.5
12.5°	2910.0	2919.5	2946.4	3004.8	3004.8	2897.4	2834.2	2843.7	2856.3
15°	2823.1	2829.5	2823.1	2842.1	2834.2	2745.7	2714.1	2744.1	2763.1
17.5°	2699.9	2703.1	2669.9	2644.6	2614.6	2559.3	2567.2	2611.4	2616.2
20°	2527.7	2548.2	2488.2	2423.4	2395.0	2342.9	2387.1	2436.1	2432.9
22.5°	2338.1	2361.8	2284.4	2177.0	2118.5	2098.0	2177.0	2221.2	2219.6
25°	2121.7	2139.1	2050.6	1900.5	1821.5	1818.4	1927.4	1973.2	1976.4
27.5°	1878.4	1884.7	1785.2	1589.3	1491.3	1515.0	1652.5	1715.7	1723.6
30°	1635.1	1632.0	1529.3	1286.0	1156.4	1221.2	1406.0	1475.5	1483.4
32.5°	1412.4	1402.9	1286.0	995.3	840.5	936.8	1180.1	1252.8	1265.4
35°	1199.1	1183.3	1056.9	736.2	564.0	707.8	985.8	1049.0	1053.7
37.5°	976.3	968.4	868.9	551.4	393.4	537.1	804.1	849.9	845.2
40°	769.4	769.4	687.2	409.2	273.3	399.7	636.7	677.7	663.5
42.5°	603.5	611.4	541.9	301.7	194.3	297.0	504.0	541.9	526.1
45°	486.6	486.6	426.6	224.3	126.4	221.2	398.1	432.9	429.7
47.5°	412.3	406.0	346.0	164.3	69.5	165.9	334.9	377.6	376.0
50°	368.1	358.6	297.0	129.5	49.0	137.4	293.8	333.3	334.9
52.5°	333.3	319.1	267.0	115.3	42.7	120.1	267.0	298.6	298.6
55°	295.4	287.5	240.1	102.7	37.9	107.4	240.1	268.6	267.0
57.5°	249.6	248.0	214.9	93.2	34.8	94.8	214.9	232.2	225.9
60°	203.8	210.1	186.4	83.7	31.6	85.3	183.3	197.5	194.3
62.5°	170.6	178.5	162.7	74.3	26.9	75.8	154.8	169.0	165.9
65°	142.2	148.5	135.9	63.2	23.7	63.2	128.0	140.6	140.6
67.5°	116.9	121.6	112.2	52.1	20.5	52.1	104.3	115.3	116.9
70°	93.2	96.4	88.5	41.1	17.4	42.7	82.2	93.2	93.2
72.5°	72.7	74.3	69.5	33.2	15.8	33.2	63.2	72.7	72.7
75°	52.1	55.3	52.1	25.3	14.2	25.3	49.0	53.7	55.3
77.5°	30.0	37.9	37.9	20.5	11.1	19.0	34.8	36.3	36.3
80°	20.5	23.7	26.9	14.2	7.9	14.2	22.1	23.7	22.1
82.5°	14.2	15.8	15.8	9.5	6.3	9.5	14.2	15.8	14.2
85°	7.9	11.1	11.1	7.9	4.7	6.3	7.9	9.5	7.9
87.5°	4.7	6.3	7.9	6.3	4.7	4.7	4.7	4.7	3.2
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)