

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: P799670

Luminaire Tested: **LD6C40D010 EU6409030 6LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C40D010 EU6409030 6LBMDSWGPH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

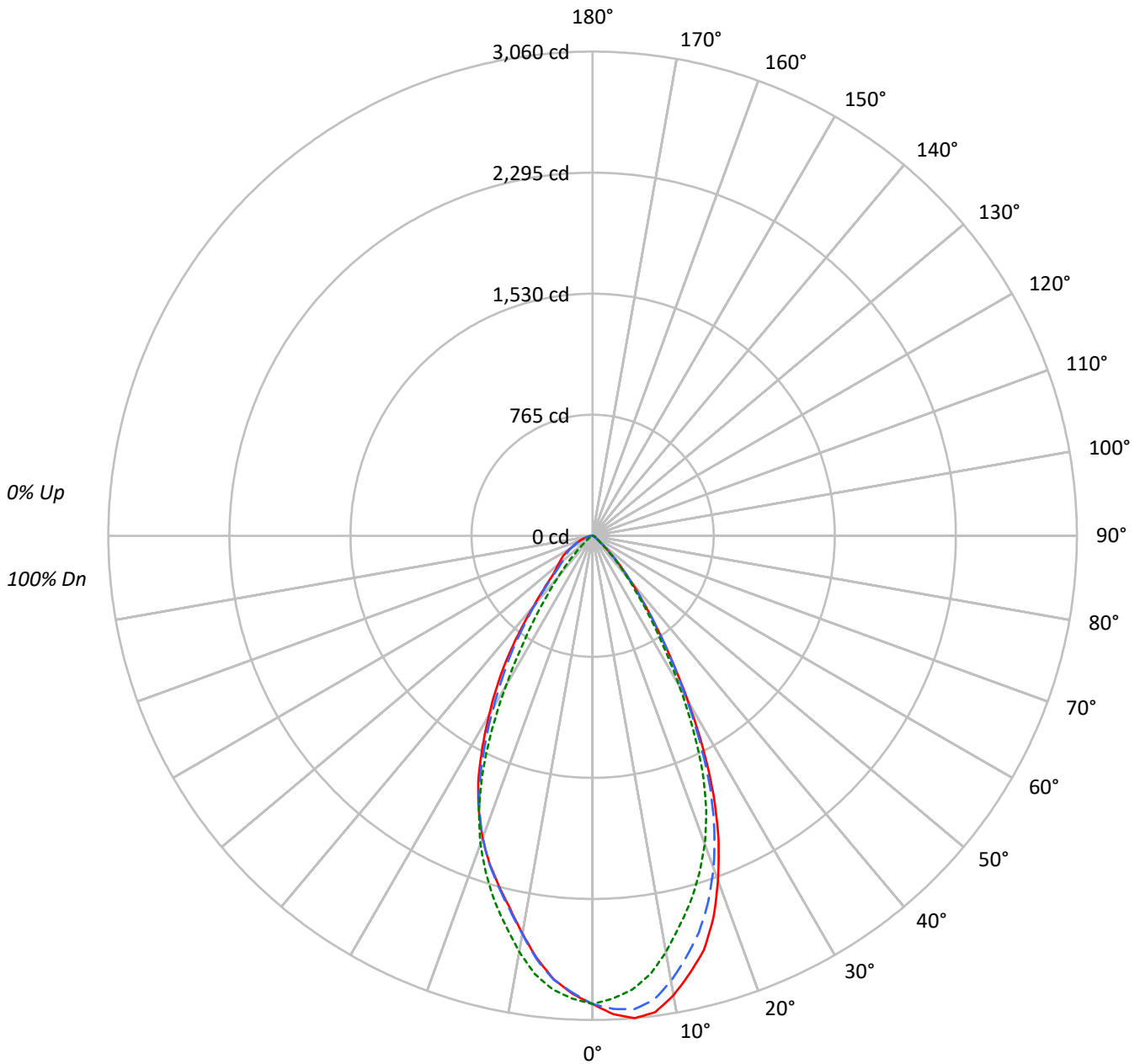
Lumens per Lamp: N/A
Luminaire Lumens: 2548.0 lumens
Efficiency: N/A
Efficacy: 54.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92			92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78			78
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73			73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67			67
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63			63
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59			59
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55			55
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52			52
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49			49

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	162240	162240	162240
5°	168407	158430	154848
10°	164103	148611	142070
15°	153906	135790	129921
20°	135112	120883	118579
25°	109276	99314	103403
30°	75967	69182	82760
35°	46826	42382	62459
40°	26500	23759	41478
45°	12870	12273	28305
50°	4904	4904	24067
55°	2686	3173	22212
60°	1963	2522	18200
65°	1660	2153	14904
70°	1427	1843	12278
75°	1356	1885	10548
80°	821	1610	7671
85°	818	3208	7233



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.9	10.6
10°-20°	680.9	26.7
20°-30°	766.6	30.1
30°-40°	474.7	18.6
40°-50°	189.0	7.4
50°-60°	86.1	3.4
60°-70°	49.5	1.9
70°-80°	23.5	0.9
80°-90°	6.9	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°	1718.4	67.4
0°-40°	2193.1	86.1
0°-60°	2468.2	96.9
0°-90°	2548.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2548.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2960	2960	2960	2960	2960	
5°	3060	3004	2879	2816	2814	288
15°	2712	2594	2393	2296	2289	750
25°	1807	1758	1642	1683	1710	812
35°	700	696	633	882	933	450
45°	166	166	158	345	365	141
55°	28	27	33	204	232	28
65°	13	12	17	114	115	12
75°	6	6	9	48	50	7
85°	1	1	5	12	12	1
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°	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5
2.5°	3027.1	2999.0	2992.7	2968.4	2927.6	2904.6	2890.5	2880.3	2898.2
5°	3060.3	3029.7	3004.2	2954.4	2879.0	2836.9	2816.5	2799.9	2813.9
7.5°	3036.1	2992.7	2958.2	2889.2	2793.5	2728.4	2700.3	2681.1	2693.9
10°	2948.0	2895.6	2856.1	2774.3	2669.7	2591.8	2557.3	2539.4	2552.2
12.5°	2833.1	2789.7	2729.7	2640.3	2527.9	2446.2	2420.7	2406.6	2411.8
15°	2711.8	2660.7	2594.3	2505.0	2392.6	2310.9	2295.6	2286.6	2289.2
17.5°	2535.6	2485.8	2428.3	2341.5	2238.1	2171.7	2171.7	2165.3	2169.2
20°	2316.0	2289.2	2233.0	2160.2	2072.1	2012.1	2031.3	2024.9	2032.6
22.5°	2078.5	2058.1	2009.6	1949.6	1875.5	1828.3	1870.4	1869.1	1879.4
25°	1806.6	1791.3	1758.1	1707.0	1641.9	1612.5	1682.7	1682.7	1709.5
27.5°	1506.5	1491.2	1468.2	1424.8	1371.2	1362.3	1465.7	1478.5	1507.8
30°	1200.1	1189.9	1177.1	1137.6	1092.9	1109.5	1252.5	1274.2	1307.4
32.5°	926.9	920.5	916.7	880.9	841.4	896.3	1059.7	1087.8	1121.0
35°	699.7	685.6	695.8	669.0	633.3	702.2	882.2	906.5	933.3
37.5°	515.8	505.6	514.5	495.4	463.5	538.8	708.6	723.9	741.8
40°	370.3	361.3	369.0	357.5	332.0	402.2	555.4	572.0	579.6
42.5°	263.0	247.7	255.3	246.4	233.6	302.6	436.6	452.0	454.5
45°	166.0	160.9	166.0	160.9	158.3	224.7	344.7	358.8	365.1
47.5°	100.9	94.5	94.5	91.9	94.5	166.0	284.7	305.1	315.4
50°	57.5	54.9	53.6	52.3	57.5	130.2	246.4	269.4	282.2
52.5°	38.3	37.0	37.0	35.7	42.1	109.8	222.2	242.6	255.3
55°	28.1	26.8	26.8	26.8	33.2	94.5	204.3	220.9	232.4
57.5°	21.7	21.7	21.7	20.4	28.1	80.4	182.6	191.5	200.4
60°	17.9	16.6	16.6	16.6	23.0	68.9	157.0	160.9	166.0
62.5°	14.0	14.0	14.0	14.0	19.2	61.3	135.3	135.3	137.9
65°	12.8	11.5	11.5	11.5	16.6	53.6	113.6	112.4	114.9
67.5°	10.2	10.2	10.2	10.2	14.0	46.0	93.2	91.9	94.5
70°	8.9	8.9	8.9	8.9	11.5	38.3	75.3	74.1	76.6
72.5°	7.7	7.7	7.7	7.7	10.2	31.9	60.0	60.0	61.3
75°	6.4	6.4	6.4	6.4	8.9	24.3	48.5	48.5	49.8
77.5°	5.1	5.1	5.1	5.1	6.4	19.2	37.0	35.7	35.7
80°	2.6	3.8	3.8	3.8	5.1	14.0	26.8	24.3	24.3
82.5°	1.3	2.6	2.6	2.6	5.1	10.2	17.9	16.6	16.6
85°	1.3	1.3	1.3	3.8	5.1	7.7	11.5	11.5	11.5
87.5°	0.0	1.3	2.6	5.1	6.4	6.4	7.7	6.4	6.4
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)