

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: P799724

Luminaire Tested: **LD6C45D010 EU6459030 6LBMDDWGPB**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799724
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 EU6459030 6LBMDDWGPH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

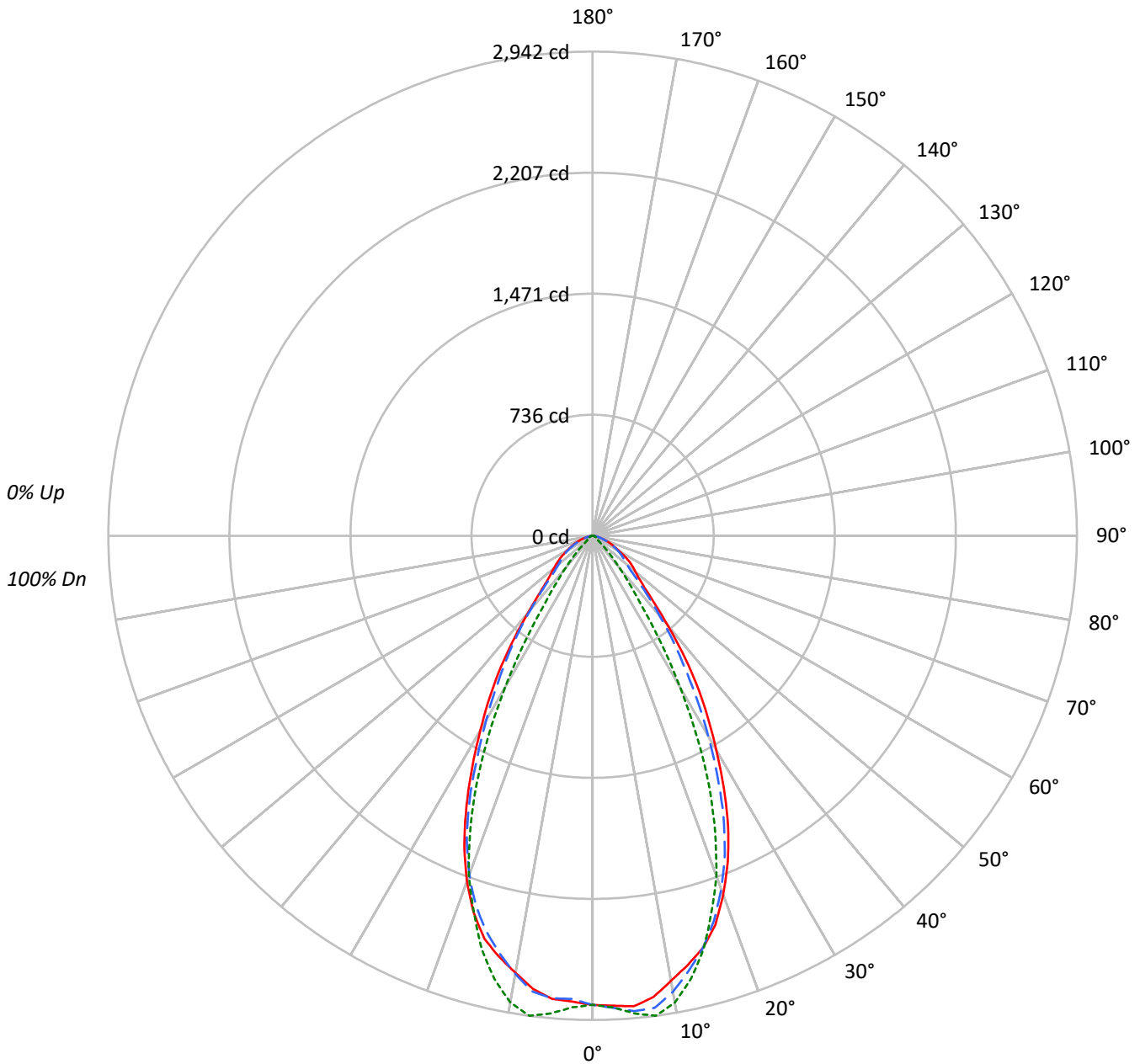
Lumens per Lamp: N/A
Luminaire Lumens: 2901.9 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

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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°	156265	156265	156265
5°	157902	160296	155426
10°	152786	160290	150120
15°	147050	147623	143923
20°	135339	128234	130264
25°	117781	101123	109712
30°	94996	67181	86184
35°	73649	34639	64721
40°	50530	17948	43582
45°	34624	8993	30577
50°	28809	3829	26217
55°	25911	3326	23416
60°	20503	3180	19549
65°	16928	2815	16733
70°	13704	2549	13704
75°	10124	2754	10739
80°	5935	2273	6409
85°	4529	2705	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.3	9.4
10°-20°	712.2	24.5
20°-30°	812.9	28.0
30°-40°	539.1	18.6
40°-50°	260.0	9.0
50°-60°	159.9	5.5
60°-70°	96.8	3.3
70°-80°	40.7	1.4
80°-90°	9.0	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°	1796.4	61.9
0°-40°	2335.5	80.5
0°-60°	2755.5	95.0
0°-90°	2901.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2901.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2850	2850	2850	2850	2850	
5°	2869	2900	2913	2820	2824	270
15°	2591	2591	2601	2491	2536	722
25°	1947	1882	1672	1769	1814	883
35°	1100	970	518	905	967	681
45°	447	392	116	365	394	364
55°	271	220	35	220	245	238
65°	130	125	22	117	129	131
75°	48	48	13	45	51	51
85°	7	10	4	7	7	9
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°	2850.5	2850.5	2850.5	2850.5	2850.5	2850.5	2850.5	2850.5	2850.5
2.5°	2857.8	2862.1	2870.8	2872.3	2867.9	2840.4	2817.2	2825.9	2833.1
5°	2869.4	2878.1	2899.8	2920.1	2912.9	2866.5	2820.1	2818.6	2824.4
7.5°	2827.3	2847.6	2892.6	2943.3	2941.9	2862.1	2794.0	2776.6	2776.6
10°	2744.7	2763.5	2812.8	2881.0	2879.5	2779.5	2704.1	2695.4	2696.8
12.5°	2670.7	2679.4	2704.1	2757.7	2757.7	2659.1	2601.1	2609.8	2621.4
15°	2591.0	2596.8	2591.0	2608.4	2601.1	2519.9	2491.0	2518.5	2535.9
17.5°	2477.9	2480.8	2450.4	2427.2	2399.6	2348.9	2356.1	2396.7	2401.1
20°	2319.9	2338.7	2283.6	2224.2	2198.1	2150.2	2190.8	2235.8	2232.9
22.5°	2145.9	2167.6	2096.6	1998.0	1944.3	1925.5	1998.0	2038.6	2037.1
25°	1947.2	1963.2	1882.0	1744.2	1671.8	1668.9	1768.9	1810.9	1813.8
27.5°	1723.9	1729.7	1638.4	1458.6	1368.7	1390.5	1516.6	1574.6	1581.9
30°	1500.7	1497.8	1403.5	1180.2	1061.3	1120.8	1290.4	1354.2	1361.5
32.5°	1296.2	1287.5	1180.2	913.4	771.4	859.8	1083.1	1149.8	1161.4
35°	1100.5	1086.0	970.0	675.7	517.6	649.6	904.7	962.7	967.1
37.5°	896.0	888.8	797.5	506.0	361.0	493.0	738.0	780.1	775.7
40°	706.1	706.1	630.7	375.5	250.8	366.8	584.3	622.0	609.0
42.5°	553.9	561.1	497.3	276.9	178.3	272.6	462.5	497.3	482.8
45°	446.6	446.6	391.5	205.9	116.0	203.0	365.4	397.3	394.4
47.5°	378.4	372.6	317.5	150.8	63.8	152.2	307.4	346.5	345.1
50°	337.8	329.1	272.6	118.9	44.9	126.1	269.7	305.9	307.4
52.5°	305.9	292.9	245.0	105.8	39.1	110.2	245.0	274.0	274.0
55°	271.1	263.9	220.4	94.2	34.8	98.6	220.4	246.5	245.0
57.5°	229.1	227.6	197.2	85.5	31.9	87.0	197.2	213.1	207.3
60°	187.0	192.8	171.1	76.8	29.0	78.3	168.2	181.2	178.3
62.5°	156.6	163.8	149.3	68.1	24.6	69.6	142.1	155.1	152.2
65°	130.5	136.3	124.7	58.0	21.7	58.0	117.4	129.0	129.0
67.5°	107.3	111.6	102.9	47.8	18.8	47.8	95.7	105.8	107.3
70°	85.5	88.4	81.2	37.7	15.9	39.1	75.4	85.5	85.5
72.5°	66.7	68.1	63.8	30.4	14.5	30.4	58.0	66.7	66.7
75°	47.8	50.7	47.8	23.2	13.0	23.2	44.9	49.3	50.7
77.5°	27.5	34.8	34.8	18.8	10.1	17.4	31.9	33.3	33.3
80°	18.8	21.7	24.6	13.0	7.2	13.0	20.3	21.7	20.3
82.5°	13.0	14.5	14.5	8.7	5.8	8.7	13.0	14.5	13.0
85°	7.2	10.1	10.1	7.2	4.3	5.8	7.2	8.7	7.2
87.5°	4.3	5.8	7.2	5.8	4.3	4.3	4.3	4.3	2.9
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)