

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: P799748

Luminaire Tested: **LD6C45D010 EU6459040 6LBMDDWGPB**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799748  
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 EU6459040 6LBMDDWGPH  
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

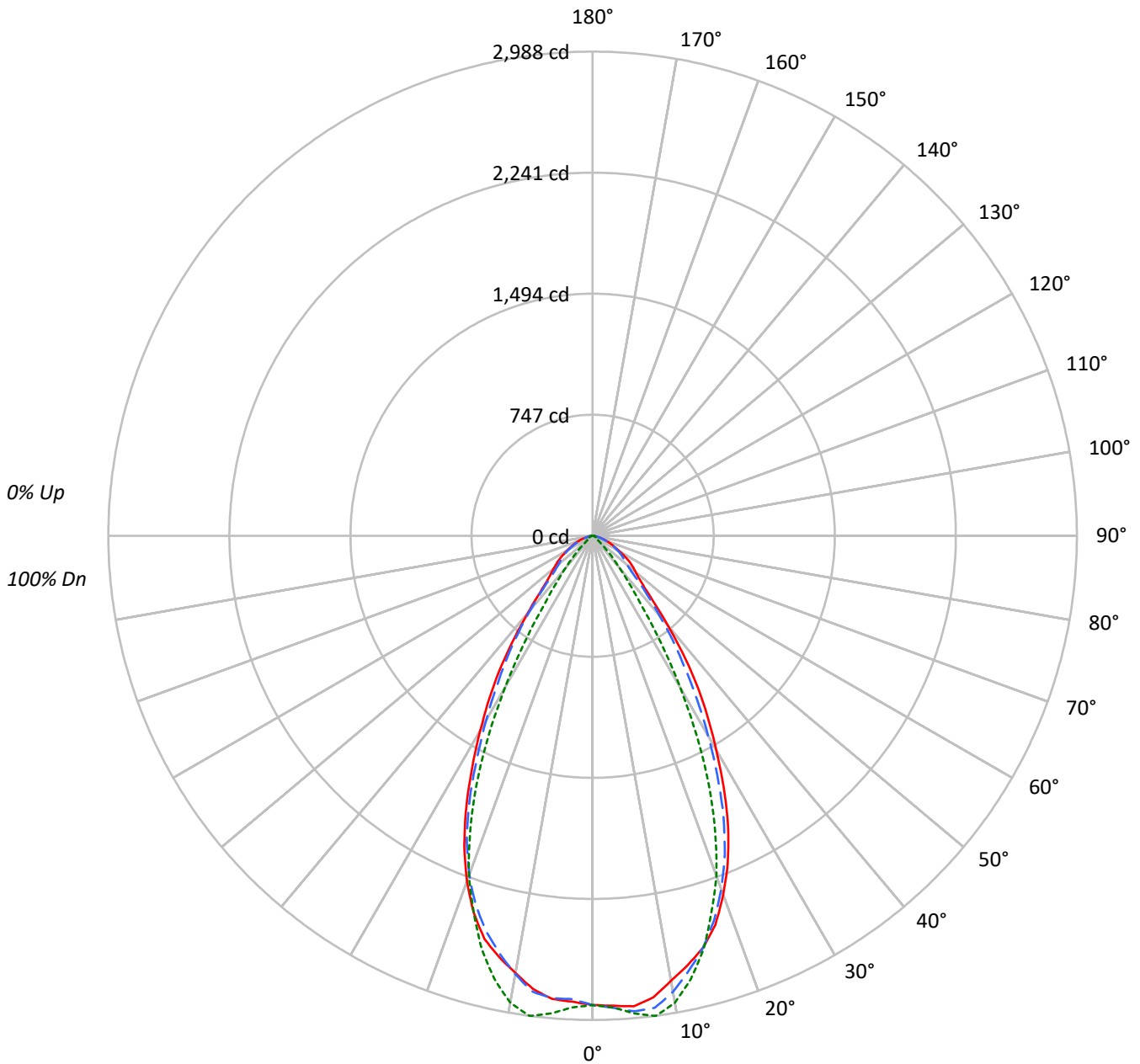
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2948.0 lumens  
Efficiency: N/A  
Efficacy: 59.4 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<sub>in</sub>): 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: P799748

CATALOG NUMBER: LD6C45D010 EU6459040 6LBMDDWGPH

### Luminous Intensity Polar Plot





TEST NUMBER: P799748

CATALOG NUMBER: LD6C45D010 EU6459040 6LBMDDWGPH

**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°	158743	158743	158743
5°	160406	162833	157891
10°	155208	162834	152502
15°	149382	149967	146204
20°	137480	130264	132329
25°	119650	102720	111454
30°	96496	68251	87545
35°	74813	35188	65745
40°	51332	18234	44269
45°	35174	9133	31057
50°	29270	3898	26635
55°	26322	3374	23789
60°	20832	3234	19867
65°	17200	2867	17006
70°	13929	2597	13929
75°	10294	2817	10929
80°	6030	2336	6503
85°	4655	2768	4655



TEST NUMBER: P799748

CATALOG NUMBER: LD6C45D010 EU6459040 6LBMDDWGPH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.6	9.4
10°-20°	723.5	24.5
20°-30°	825.8	28.0
30°-40°	547.6	18.6
40°-50°	264.1	9.0
50°-60°	162.5	5.5
60°-70°	98.3	3.3
70°-80°	41.4	1.4
80°-90°	9.1	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°	1824.9	61.9
0°-40°	2372.6	80.5
0°-60°	2799.2	95.0
0°-90°	2948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2948.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2896	2896	2896	2896	2896	
5°	2915	2946	2959	2865	2869	274
15°	2632	2632	2642	2530	2576	733
25°	1978	1912	1698	1797	1843	897
35°	1118	985	526	919	982	691
45°	454	398	118	371	401	370
55°	275	224	35	224	249	242
65°	133	127	22	119	131	133
75°	49	49	13	46	52	52
85°	7	10	4	7	7	9
90°	0	0	0	0	0	



TEST NUMBER: P799748

CATALOG NUMBER: LD6C45D010 EU6459040 6LBMDDWGPH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2895.7	2895.7	2895.7	2895.7	2895.7	2895.7	2895.7	2895.7	2895.7
2.5°	2903.1	2907.5	2916.3	2917.8	2913.4	2885.4	2861.8	2870.7	2878.0
5°	2914.9	2923.7	2945.8	2966.4	2959.0	2911.9	2864.8	2863.3	2869.2
7.5°	2872.1	2892.8	2938.4	2990.0	2988.5	2907.5	2838.3	2820.6	2820.6
10°	2788.2	2807.3	2857.4	2926.6	2925.2	2823.5	2747.0	2738.1	2739.6
12.5°	2713.1	2721.9	2747.0	2801.4	2801.4	2701.3	2642.4	2651.2	2663.0
15°	2632.1	2638.0	2632.1	2649.7	2642.4	2559.9	2530.4	2558.4	2576.1
17.5°	2517.2	2520.1	2489.2	2465.6	2437.6	2386.1	2393.5	2434.7	2439.1
20°	2356.6	2375.8	2319.8	2259.4	2232.9	2184.3	2225.5	2271.2	2268.3
22.5°	2179.9	2202.0	2129.8	2029.7	1975.2	1956.0	2029.7	2070.9	2069.4
25°	1978.1	1994.3	1911.8	1771.9	1698.2	1695.3	1796.9	1839.6	1842.6
27.5°	1751.3	1757.2	1664.4	1481.7	1390.4	1412.5	1540.6	1599.6	1606.9
30°	1524.4	1521.5	1425.8	1198.9	1078.2	1138.5	1310.9	1375.7	1383.0
32.5°	1316.8	1307.9	1198.9	927.9	783.6	873.4	1100.3	1168.0	1179.8
35°	1117.9	1103.2	985.4	686.4	525.8	659.9	919.1	978.0	982.4
37.5°	910.2	902.9	810.1	514.0	366.8	500.8	749.7	792.4	788.0
40°	717.3	717.3	640.7	381.5	254.8	372.6	593.6	631.9	618.6
42.5°	562.6	570.0	505.2	281.3	181.2	276.9	469.9	505.2	490.5
45°	453.7	453.7	397.7	209.2	117.8	206.2	371.2	403.6	400.6
47.5°	384.4	378.5	322.6	153.2	64.8	154.7	312.3	352.0	350.5
50°	343.2	334.3	276.9	120.8	45.7	128.1	274.0	310.8	312.3
52.5°	310.8	297.5	248.9	107.5	39.8	111.9	248.9	278.4	278.4
55°	275.4	268.1	223.9	95.7	35.3	100.2	223.9	250.4	248.9
57.5°	232.7	231.2	200.3	86.9	32.4	88.4	200.3	216.5	210.6
60°	190.0	195.9	173.8	78.1	29.5	79.5	170.9	184.1	181.2
62.5°	159.1	166.4	151.7	69.2	25.0	70.7	144.3	157.6	154.7
65°	132.6	138.5	126.7	58.9	22.1	58.9	119.3	131.1	131.1
67.5°	109.0	113.4	104.6	48.6	19.1	48.6	97.2	107.5	109.0
70°	86.9	89.8	82.5	38.3	16.2	39.8	76.6	86.9	86.9
72.5°	67.8	69.2	64.8	30.9	14.7	30.9	58.9	67.8	67.8
75°	48.6	51.6	48.6	23.6	13.3	23.6	45.7	50.1	51.6
77.5°	28.0	35.3	35.3	19.1	10.3	17.7	32.4	33.9	33.9
80°	19.1	22.1	25.0	13.3	7.4	13.3	20.6	22.1	20.6
82.5°	13.3	14.7	14.7	8.8	5.9	8.8	13.3	14.7	13.3
85°	7.4	10.3	10.3	7.4	4.4	5.9	7.4	8.8	7.4
87.5°	4.4	5.9	7.4	5.9	4.4	4.4	4.4	4.4	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)