

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: P799766

Luminaire Tested: **LD6C45D010 EU6459050 6LBMDSWGPH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799766  
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: LD6C45D010 EU6459050 6LBMDSWGPH  
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

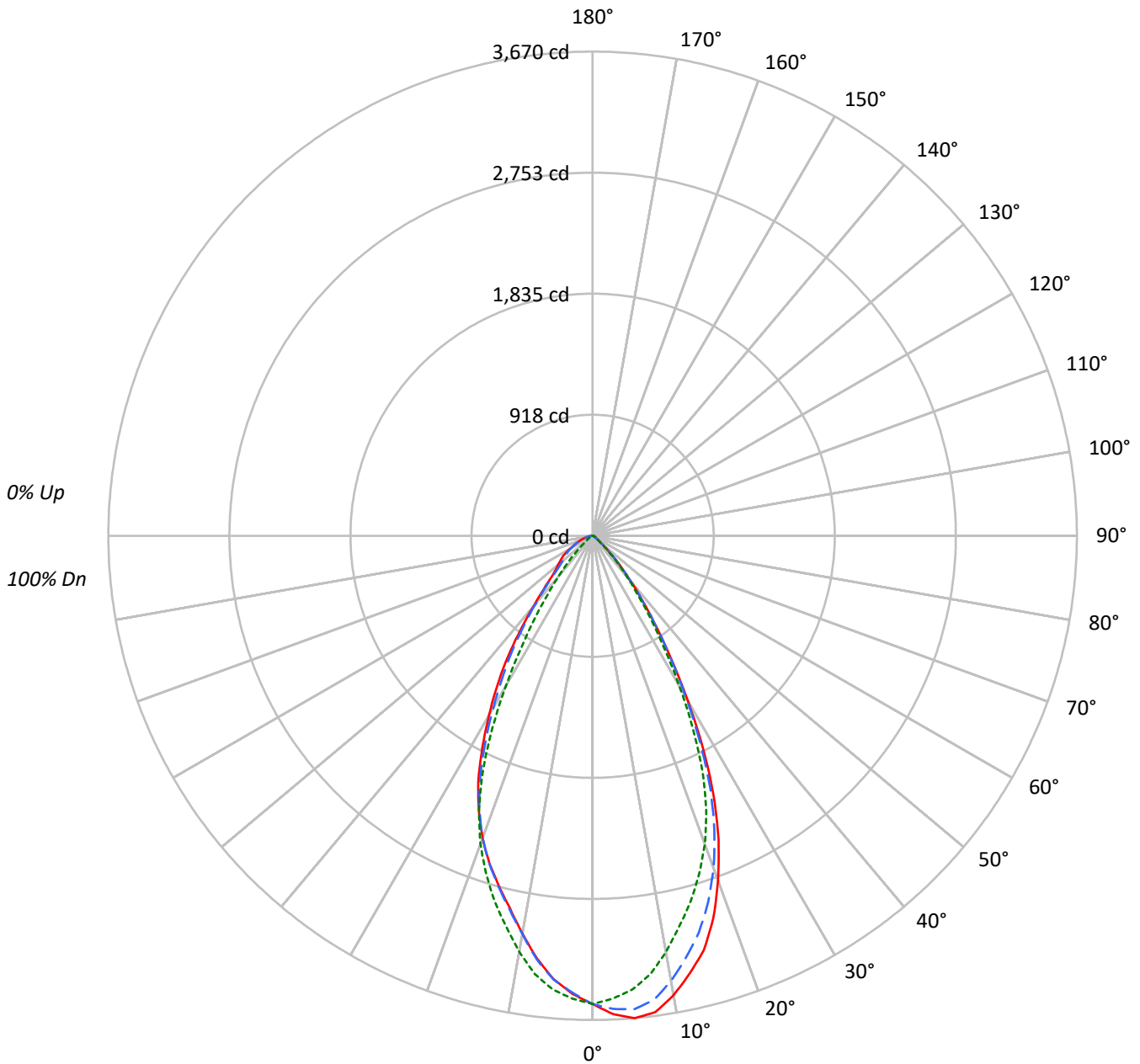
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3056.0 lumens  
Efficiency: N/A  
Efficacy: 61.6 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): 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

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	194584	194584	194584
5°	201986	190017	185719
10°	196818	178237	170393
15°	184587	162861	155824
20°	162047	144988	142217
25°	131064	119112	124023
30°	91115	82975	99256
35°	56155	50828	74914
40°	31781	28489	49750
45°	15436	14722	33949
50°	5876	5876	28860
55°	3221	3804	26637
60°	2346	3026	21829
65°	1985	2581	17875
70°	1715	2212	14730
75°	1631	2266	12645
80°	979	1926	9187
85°	943	3837	8680



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.9	10.6
10°-20°	816.7	26.7
20°-30°	919.4	30.1
30°-40°	569.3	18.6
40°-50°	226.7	7.4
50°-60°	103.2	3.4
60°-70°	59.3	1.9
70°-80°	28.2	0.9
80°-90°	8.2	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°	2061.0	67.4
0°-40°	2630.3	86.1
0°-60°	2960.3	96.9
0°-90°	3056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3056.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3550	3550	3550	3550	3550	
5°	3670	3603	3453	3378	3375	346
15°	3252	3112	2870	2753	2746	900
25°	2167	2109	1969	2018	2050	974
35°	839	834	760	1058	1119	539
45°	199	199	190	413	438	169
55°	34	32	40	245	279	33
65°	15	14	20	136	138	15
75°	8	8	11	58	60	8
85°	2	2	6	14	14	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°	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5
2.5°	3630.7	3597.0	3589.3	3560.2	3511.2	3483.7	3466.8	3454.6	3476.0
5°	3670.5	3633.7	3603.1	3543.4	3453.0	3402.5	3378.0	3358.1	3374.9
7.5°	3641.4	3589.3	3548.0	3465.3	3350.4	3272.3	3238.7	3215.7	3231.0
10°	3535.7	3472.9	3425.5	3327.5	3201.9	3108.5	3067.2	3045.7	3061.0
12.5°	3397.9	3345.8	3273.9	3166.7	3031.9	2933.9	2903.3	2886.5	2892.6
15°	3252.4	3191.2	3111.6	3004.4	2869.6	2771.6	2753.2	2742.5	2745.6
17.5°	3041.1	2981.4	2912.5	2808.4	2684.3	2604.7	2604.7	2597.0	2601.6
20°	2777.7	2745.6	2678.2	2590.9	2485.3	2413.3	2436.3	2428.6	2437.8
22.5°	2492.9	2468.4	2410.2	2338.3	2249.4	2192.8	2243.3	2241.8	2254.0
25°	2166.8	2148.4	2108.6	2047.3	1969.2	1934.0	2018.2	2018.2	2050.4
27.5°	1806.9	1788.5	1761.0	1708.9	1644.6	1633.9	1757.9	1773.2	1808.4
30°	1439.4	1427.2	1411.8	1364.4	1310.8	1330.7	1502.2	1528.2	1568.0
32.5°	1111.7	1104.1	1099.5	1056.6	1009.1	1075.0	1271.0	1304.6	1344.5
35°	839.1	822.3	834.5	802.4	759.5	842.2	1058.1	1087.2	1119.4
37.5°	618.6	606.4	617.1	594.1	555.9	646.2	849.9	868.2	889.7
40°	444.1	433.4	442.5	428.8	398.1	482.4	666.1	686.0	695.2
42.5°	315.4	297.1	306.3	295.5	280.2	362.9	523.7	542.1	545.1
45°	199.1	192.9	199.1	192.9	189.9	269.5	413.4	430.3	437.9
47.5°	121.0	113.3	113.3	110.3	113.3	199.1	341.5	366.0	378.2
50°	68.9	65.8	64.3	62.8	68.9	156.2	295.5	323.1	338.4
52.5°	45.9	44.4	44.4	42.9	50.5	131.7	266.4	290.9	306.3
55°	33.7	32.2	32.2	32.2	39.8	113.3	245.0	264.9	278.7
57.5°	26.0	26.0	26.0	24.5	33.7	96.5	219.0	229.7	240.4
60°	21.4	19.9	19.9	19.9	27.6	82.7	188.3	192.9	199.1
62.5°	16.8	16.8	16.8	16.8	23.0	73.5	162.3	162.3	165.4
65°	15.3	13.8	13.8	13.8	19.9	64.3	136.3	134.8	137.8
67.5°	12.3	12.3	12.3	12.3	16.8	55.1	111.8	110.3	113.3
70°	10.7	10.7	10.7	10.7	13.8	45.9	90.3	88.8	91.9
72.5°	9.2	9.2	9.2	9.2	12.3	38.3	72.0	72.0	73.5
75°	7.7	7.7	7.7	7.7	10.7	29.1	58.2	58.2	59.7
77.5°	6.1	6.1	6.1	6.1	7.7	23.0	44.4	42.9	42.9
80°	3.1	4.6	4.6	4.6	6.1	16.8	32.2	29.1	29.1
82.5°	1.5	3.1	3.1	3.1	6.1	12.3	21.4	19.9	19.9
85°	1.5	1.5	1.5	4.6	6.1	9.2	13.8	13.8	13.8
87.5°	0.0	1.5	3.1	6.1	7.7	7.7	9.2	7.7	7.7
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)