

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: P799796

Luminaire Tested: **LD6C50D010 EU6509035 6LBMDDWGPB**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799796  
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 EU6509035 6LBMDDWGPH  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

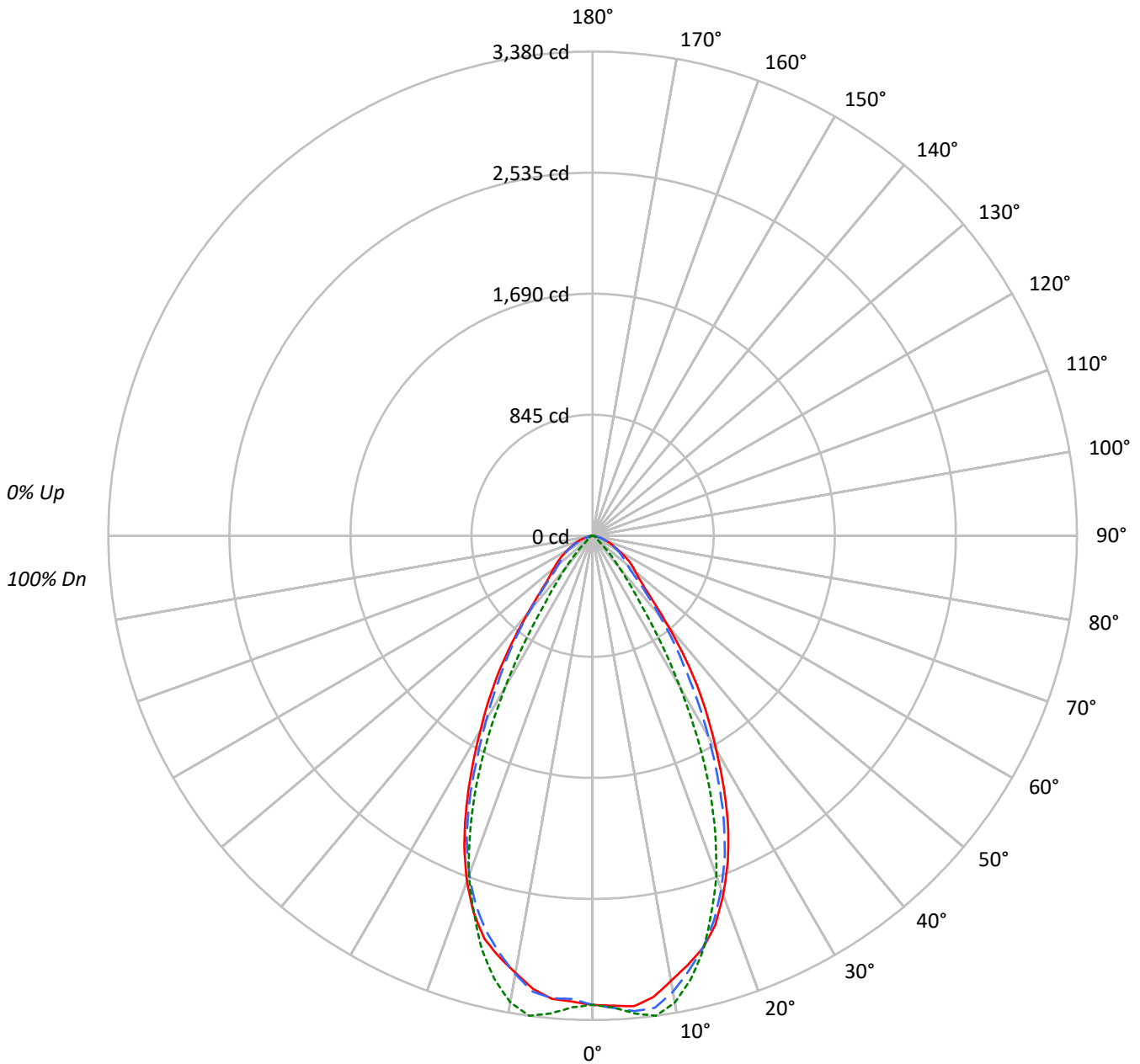
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3334.0 lumens  
Efficiency: N/A  
Efficacy: 57.1 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<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: P799796

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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	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°	179531	179531	179531
5°	181405	184156	178565
10°	175531	184154	172470
15°	168940	169604	165347
20°	155484	147322	149656
25°	135316	116172	126050
30°	109137	77183	99009
35°	84611	39799	74358
40°	58052	20624	50065
45°	39779	10334	35128
50°	33099	4401	30114
55°	29772	3823	26905
60°	23562	3651	22465
65°	19444	3243	19237
70°	15756	2933	15756
75°	11649	3177	12348
80°	6851	2620	7356
85°	5221	3145	5221



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.7	9.4
10°-20°	818.2	24.5
20°-30°	933.9	28.0
30°-40°	619.4	18.6
40°-50°	298.7	9.0
50°-60°	183.8	5.5
60°-70°	111.2	3.3
70°-80°	46.8	1.4
80°-90°	10.3	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°	2063.9	61.9
0°-40°	2683.2	80.5
0°-60°	3165.7	95.0
0°-90°	3334.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3334.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3275	3275	3275	3275	3275	
5°	3296	3332	3346	3240	3245	310
15°	2977	2977	2988	2862	2913	830
25°	2237	2162	1921	2032	2084	1014
35°	1264	1114	595	1039	1111	782
45°	513	450	133	420	453	418
55°	312	253	40	253	282	274
65°	150	143	25	135	148	151
75°	55	55	15	52	58	59
85°	8	12	5	8	8	11
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°	3274.9	3274.9	3274.9	3274.9	3274.9	3274.9	3274.9	3274.9	3274.9
2.5°	3283.2	3288.2	3298.2	3299.9	3294.9	3263.2	3236.6	3246.6	3254.9
5°	3296.5	3306.5	3331.5	3354.8	3346.5	3293.2	3239.9	3238.2	3244.9
7.5°	3248.2	3271.5	3323.2	3381.5	3379.8	3288.2	3209.9	3189.9	3189.9
10°	3153.3	3174.9	3231.6	3309.8	3308.2	3193.2	3106.6	3096.6	3098.3
12.5°	3068.3	3078.3	3106.6	3168.3	3168.3	3055.0	2988.4	2998.4	3011.7
15°	2976.7	2983.4	2976.7	2996.7	2988.4	2895.1	2861.8	2893.4	2913.4
17.5°	2846.8	2850.1	2815.1	2788.5	2756.8	2698.5	2706.8	2753.5	2758.5
20°	2665.2	2686.9	2623.6	2555.3	2525.3	2470.3	2517.0	2568.6	2565.3
22.5°	2465.3	2490.3	2408.7	2295.4	2233.8	2212.1	2295.4	2342.0	2340.4
25°	2237.1	2255.4	2162.1	2003.9	1920.6	1917.3	2032.2	2080.5	2083.9
27.5°	1980.6	1987.2	1882.3	1675.7	1572.5	1597.5	1742.4	1809.0	1817.3
30°	1724.1	1720.7	1612.4	1355.9	1219.3	1287.6	1482.5	1555.8	1564.1
32.5°	1489.2	1479.2	1355.9	1049.4	886.2	987.8	1244.3	1320.9	1334.3
35°	1264.3	1247.6	1114.4	776.2	594.7	746.3	1039.4	1106.1	1111.1
37.5°	1029.4	1021.1	916.2	581.3	414.8	566.4	847.9	896.2	891.2
40°	811.2	811.2	724.6	431.4	288.2	421.4	671.3	714.6	699.6
42.5°	636.3	644.6	571.4	318.2	204.9	313.2	531.4	571.4	554.7
45°	513.1	513.1	449.8	236.5	133.3	233.2	419.8	456.4	453.1
47.5°	434.8	428.1	364.8	173.2	73.3	174.9	353.1	398.1	396.4
50°	388.1	378.1	313.2	136.6	51.6	144.9	309.8	351.5	353.1
52.5°	351.5	336.5	281.5	121.6	45.0	126.6	281.5	314.8	314.8
55°	311.5	303.2	253.2	108.3	40.0	113.3	253.2	283.2	281.5
57.5°	263.2	261.5	226.5	98.3	36.6	99.9	226.5	244.9	238.2
60°	214.9	221.5	196.6	88.3	33.3	90.0	193.2	208.2	204.9
62.5°	179.9	188.2	171.6	78.3	28.3	80.0	163.2	178.2	174.9
65°	149.9	156.6	143.3	66.6	25.0	66.6	134.9	148.3	148.3
67.5°	123.3	128.3	118.3	55.0	21.7	55.0	109.9	121.6	123.3
70°	98.3	101.6	93.3	43.3	18.3	45.0	86.6	98.3	98.3
72.5°	76.6	78.3	73.3	35.0	16.7	35.0	66.6	76.6	76.6
75°	55.0	58.3	55.0	26.7	15.0	26.7	51.6	56.6	58.3
77.5°	31.6	40.0	40.0	21.7	11.7	20.0	36.6	38.3	38.3
80°	21.7	25.0	28.3	15.0	8.3	15.0	23.3	25.0	23.3
82.5°	15.0	16.7	16.7	10.0	6.7	10.0	15.0	16.7	15.0
85°	8.3	11.7	11.7	8.3	5.0	6.7	8.3	10.0	8.3
87.5°	5.0	6.7	8.3	6.7	5.0	5.0	5.0	5.0	3.3
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)