

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: P799778

Luminaire Tested: **LD6C50D010 EU6509027 6LBMDSWGPH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799778  
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: LD6C50D010 EU6509027 6LBMDSWGPH  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

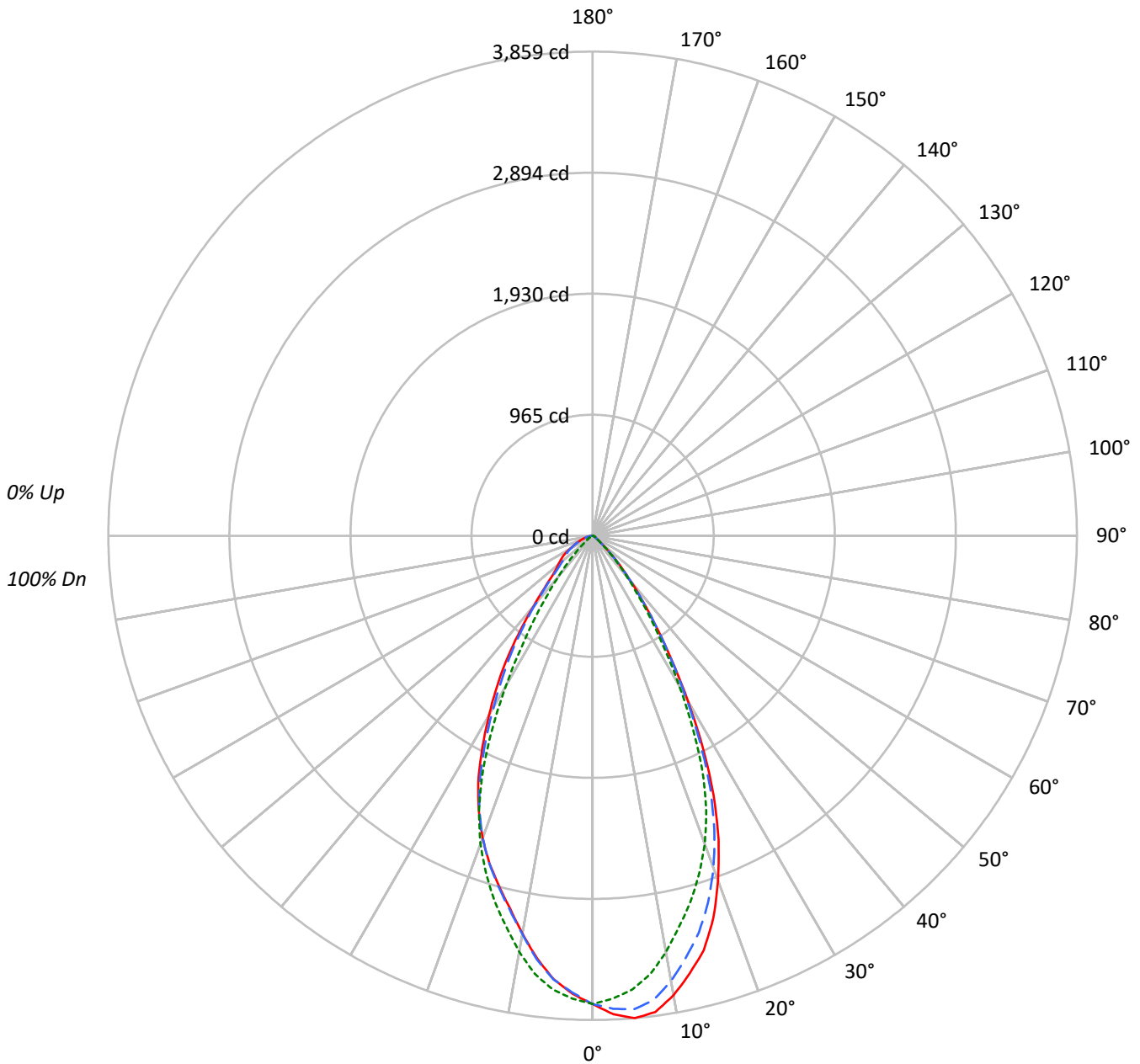
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3213.0 lumens  
Efficiency: N/A  
Efficacy: 55.0 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): 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

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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	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63	63	63	63
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59	59	59	59
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55	55	55	55
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52	52	52	52
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49	49	49	49

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

	0°	90°	180°
0°	204583	204583	204583
5°	212359	199779	195261
10°	206932	187394	179149
15°	194070	171227	163826
20°	170371	152432	149521
25°	137796	125233	130393
30°	95800	87235	104358
35°	59046	53438	78762
40°	33413	29956	52305
45°	16226	15474	35694
50°	6175	6175	30344
55°	3383	4005	28004
60°	2467	3180	22948
65°	2088	2711	18796
70°	1811	2324	15483
75°	1694	2393	13302
80°	1010	2020	9660
85°	1006	4026	9120



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.6	10.6
10°-20°	858.7	26.7
20°-30°	966.6	30.1
30°-40°	598.5	18.6
40°-50°	238.4	7.4
50°-60°	108.5	3.4
60°-70°	62.4	1.9
70°-80°	29.6	0.9
80°-90°	8.6	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°	2166.9	67.4
0°-40°	2765.5	86.1
0°-60°	3112.4	96.9
0°-90°	3213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3213.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3732	3732	3732	3732	3732	
5°	3859	3788	3630	3552	3548	363
15°	3420	3271	3017	2895	2887	946
25°	2278	2217	2070	2122	2156	1024
35°	882	877	798	1112	1177	567
45°	209	209	200	435	460	177
55°	35	34	42	258	293	35
65°	16	14	21	143	145	16
75°	8	8	11	61	63	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°	3731.9	3731.9	3731.9	3731.9	3731.9	3731.9	3731.9	3731.9	3731.9
2.5°	3817.2	3781.8	3773.7	3743.1	3691.6	3662.6	3644.9	3632.0	3654.6
5°	3859.0	3820.4	3788.2	3725.4	3630.4	3577.3	3551.5	3530.6	3548.3
7.5°	3828.5	3773.7	3730.2	3643.3	3522.6	3440.5	3405.0	3380.9	3397.0
10°	3717.4	3651.4	3601.5	3498.4	3366.4	3268.2	3224.7	3202.2	3218.3
12.5°	3572.5	3517.7	3442.1	3329.4	3187.7	3084.7	3052.5	3034.8	3041.2
15°	3419.5	3355.1	3271.4	3158.7	3017.0	2914.0	2894.7	2883.4	2886.6
17.5°	3197.4	3134.6	3062.1	2952.6	2822.2	2738.5	2738.5	2730.5	2735.3
20°	2920.4	2886.6	2815.8	2724.0	2612.9	2537.3	2561.4	2553.4	2563.0
22.5°	2621.0	2595.2	2534.1	2458.4	2365.0	2305.4	2358.6	2357.0	2369.8
25°	2278.1	2258.8	2216.9	2152.5	2070.4	2033.4	2121.9	2121.9	2155.7
27.5°	1899.7	1880.4	1851.4	1796.7	1729.1	1717.8	1848.2	1864.3	1901.3
30°	1513.4	1500.5	1484.4	1434.5	1378.1	1399.0	1579.4	1606.7	1648.6
32.5°	1168.8	1160.8	1155.9	1110.9	1061.0	1130.2	1336.3	1371.7	1413.5
35°	882.3	864.5	877.4	843.6	798.5	885.5	1112.5	1143.1	1176.9
37.5°	650.4	637.5	648.8	624.7	584.4	679.4	893.5	912.8	935.4
40°	466.9	455.6	465.3	450.8	418.6	507.1	700.3	721.3	730.9
42.5°	331.6	312.3	322.0	310.7	294.6	381.6	550.6	569.9	573.1
45°	209.3	202.9	209.3	202.9	199.6	283.4	434.7	452.4	460.4
47.5°	127.2	119.1	119.1	115.9	119.1	209.3	359.0	384.8	397.7
50°	72.4	69.2	67.6	66.0	72.4	164.2	310.7	339.7	355.8
52.5°	48.3	46.7	46.7	45.1	53.1	138.5	280.1	305.9	322.0
55°	35.4	33.8	33.8	33.8	41.9	119.1	257.6	278.5	293.0
57.5°	27.4	27.4	27.4	25.8	35.4	101.4	230.2	241.5	252.8
60°	22.5	20.9	20.9	20.9	29.0	86.9	198.0	202.9	209.3
62.5°	17.7	17.7	17.7	17.7	24.1	77.3	170.7	170.7	173.9
65°	16.1	14.5	14.5	14.5	20.9	67.6	143.3	141.7	144.9
67.5°	12.9	12.9	12.9	12.9	17.7	58.0	117.5	115.9	119.1
70°	11.3	11.3	11.3	11.3	14.5	48.3	95.0	93.4	96.6
72.5°	9.7	9.7	9.7	9.7	12.9	40.2	75.7	75.7	77.3
75°	8.0	8.0	8.0	8.0	11.3	30.6	61.2	61.2	62.8
77.5°	6.4	6.4	6.4	6.4	8.0	24.1	46.7	45.1	45.1
80°	3.2	4.8	4.8	4.8	6.4	17.7	33.8	30.6	30.6
82.5°	1.6	3.2	3.2	3.2	6.4	12.9	22.5	20.9	20.9
85°	1.6	1.6	1.6	4.8	6.4	9.7	14.5	14.5	14.5
87.5°	0.0	1.6	3.2	6.4	8.0	8.0	9.7	8.0	8.0
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)