

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: P800063

Luminaire Tested: **LD6C70D010 EU6709050 6LBMDDWMW**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P800063  
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: LD6C70D010 EU6709050 6LBMDDWMW  
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

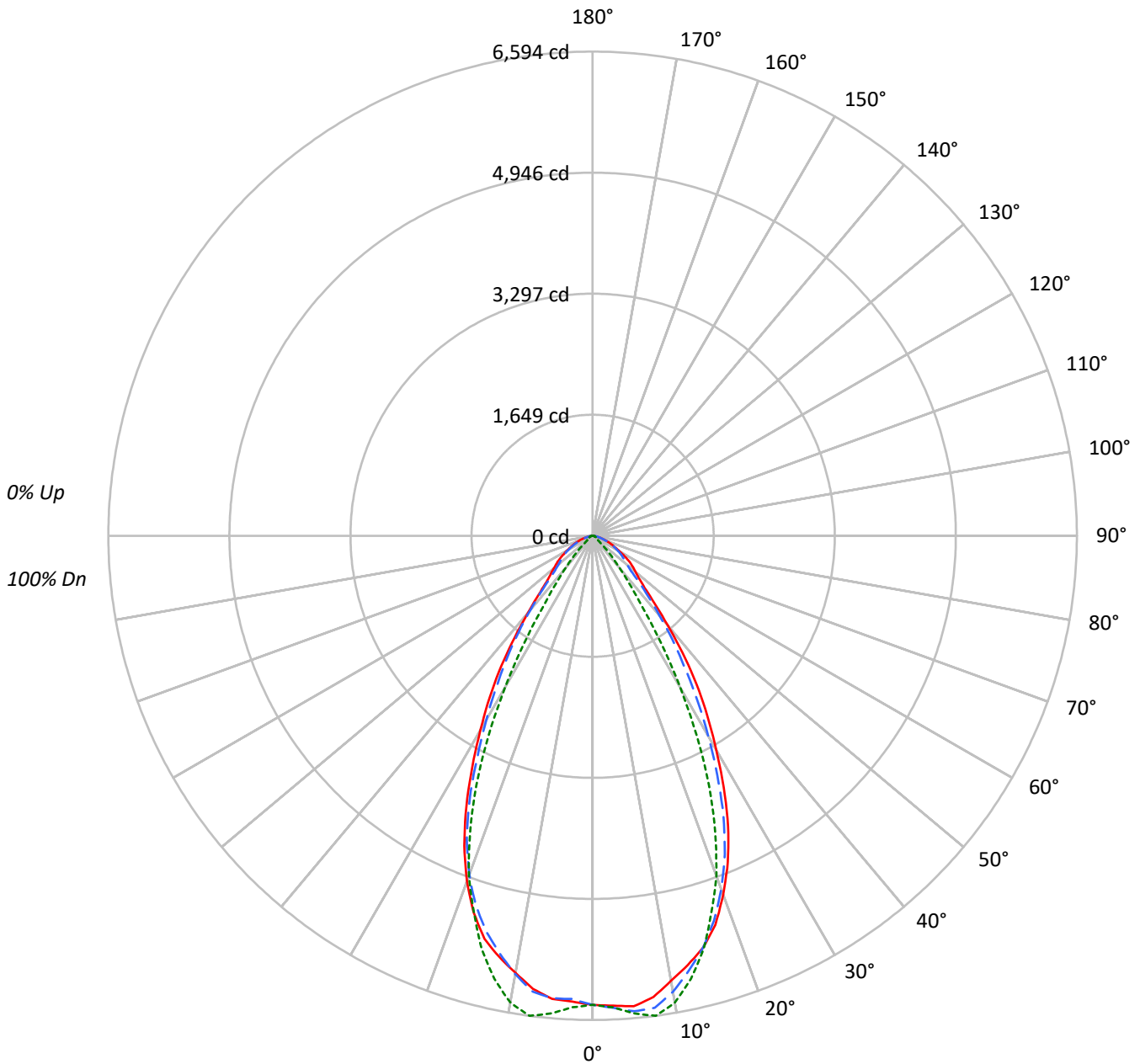
Lumens per Lamp: N/A  
Luminaire Lumens: 6505.1 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 78  
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			
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°	350279	350279	350279
5°	353945	359310	348398
10°	342479	359301	336506
15°	329622	330910	322613
20°	303366	287439	291990
25°	264015	226664	245930
30°	212931	150593	193182
35°	165086	77651	145076
40°	113269	40240	97683
45°	77605	20157	68534
50°	64586	8597	58761
55°	58091	7455	52500
60°	45972	7127	43834
65°	37942	6330	37527
70°	30742	5738	30742
75°	22727	6206	24104
80°	13354	5146	14364
85°	10253	6164	10253



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	608.2	9.3
10°-20°	1596.4	24.5
20°-30°	1822.2	28.0
30°-40°	1208.4	18.6
40°-50°	582.9	9.0
50°-60°	358.5	5.5
60°-70°	217.0	3.3
70°-80°	91.3	1.4
80°-90°	20.2	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°	4026.8	61.9
0°-40°	5235.3	80.5
0°-60°	6176.7	95.0
0°-90°	6505.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6505.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	6390	6390	6390	6390	6390	
5°	6432	6500	6529	6321	6331	604
15°	5808	5808	5831	5584	5684	1618
25°	4365	4219	3747	3965	4066	1979
35°	2467	2174	1160	2028	2168	1526
45°	1001	878	260	819	884	816
55°	608	494	78	494	549	534
65°	292	280	49	263	289	294
75°	107	107	29	101	114	115
85°	16	23	10	16	16	21
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°	6389.6	6389.6	6389.6	6389.6	6389.6	6389.6	6389.6	6389.6	6389.6
2.5°	6405.9	6415.6	6435.1	6438.4	6428.6	6366.9	6314.9	6334.4	6350.6
5°	6431.9	6451.4	6500.1	6545.6	6529.4	6425.4	6321.4	6318.1	6331.1
7.5°	6337.6	6383.1	6483.9	6597.6	6594.4	6415.6	6262.9	6223.9	6223.9
10°	6152.4	6194.6	6305.1	6457.9	6454.6	6230.4	6061.4	6041.9	6045.1
12.5°	5986.6	6006.1	6061.4	6181.6	6181.6	5960.6	5830.6	5850.1	5876.1
15°	5807.9	5820.9	5807.9	5846.9	5830.6	5648.6	5583.6	5645.4	5684.4
17.5°	5554.4	5560.9	5492.6	5440.6	5378.9	5265.1	5281.4	5372.4	5382.1
20°	5200.1	5242.4	5118.9	4985.6	4927.1	4819.8	4910.8	5011.6	5005.1
22.5°	4810.1	4858.8	4699.6	4478.6	4358.3	4316.1	4478.6	4569.6	4566.3
25°	4364.8	4400.6	4218.6	3909.8	3747.3	3740.8	3965.1	4059.3	4065.8
27.5°	3864.3	3877.3	3672.6	3269.6	3068.1	3116.8	3399.6	3529.6	3545.8
30°	3363.8	3357.3	3146.1	2645.6	2379.0	2512.3	2892.6	3035.6	3051.8
32.5°	2905.6	2886.1	2645.6	2047.5	1729.0	1927.3	2427.8	2577.3	2603.3
35°	2466.8	2434.3	2174.3	1514.5	1160.3	1456.0	2028.0	2158.0	2167.8
37.5°	2008.5	1992.3	1787.5	1134.3	809.3	1105.0	1654.3	1748.5	1738.8
40°	1582.8	1582.8	1413.8	841.8	562.3	822.3	1309.8	1394.3	1365.0
42.5°	1241.5	1257.8	1114.8	620.8	399.8	611.0	1036.8	1114.8	1082.3
45°	1001.0	1001.0	877.5	461.5	260.0	455.0	819.0	890.5	884.0
47.5°	848.3	835.3	711.8	338.0	143.0	341.3	689.0	776.8	773.5
50°	757.3	737.8	611.0	266.5	100.8	282.8	604.5	685.8	689.0
52.5°	685.8	656.5	549.3	237.3	87.8	247.0	549.3	614.3	614.3
55°	607.8	591.5	494.0	211.3	78.0	221.0	494.0	552.5	549.3
57.5°	513.5	510.3	442.0	191.8	71.5	195.0	442.0	477.8	464.8
60°	419.3	432.3	383.5	172.3	65.0	175.5	377.0	406.3	399.8
62.5°	351.0	367.3	334.8	152.8	55.3	156.0	318.5	347.8	341.3
65°	292.5	305.5	279.5	130.0	48.8	130.0	263.3	289.3	289.3
67.5°	240.5	250.3	230.8	107.3	42.3	107.3	214.5	237.3	240.5
70°	191.8	198.3	182.0	84.5	35.8	87.8	169.0	191.8	191.8
72.5°	149.5	152.8	143.0	68.3	32.5	68.3	130.0	149.5	149.5
75°	107.3	113.8	107.3	52.0	29.3	52.0	100.8	110.5	113.8
77.5°	61.8	78.0	78.0	42.3	22.8	39.0	71.5	74.8	74.8
80°	42.3	48.8	55.3	29.3	16.3	29.3	45.5	48.8	45.5
82.5°	29.3	32.5	32.5	19.5	13.0	19.5	29.3	32.5	29.3
85°	16.3	22.8	22.8	16.3	9.8	13.0	16.3	19.5	16.3
87.5°	9.8	13.0	16.3	13.0	9.8	9.8	9.8	9.8	6.5
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)