

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: P800021

Luminaire Tested: **LD6C70D010 EU6709027 6LBMDSWMW**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P800021  
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: LD6C70D010 EU6709027 6LBMDSWMW  
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

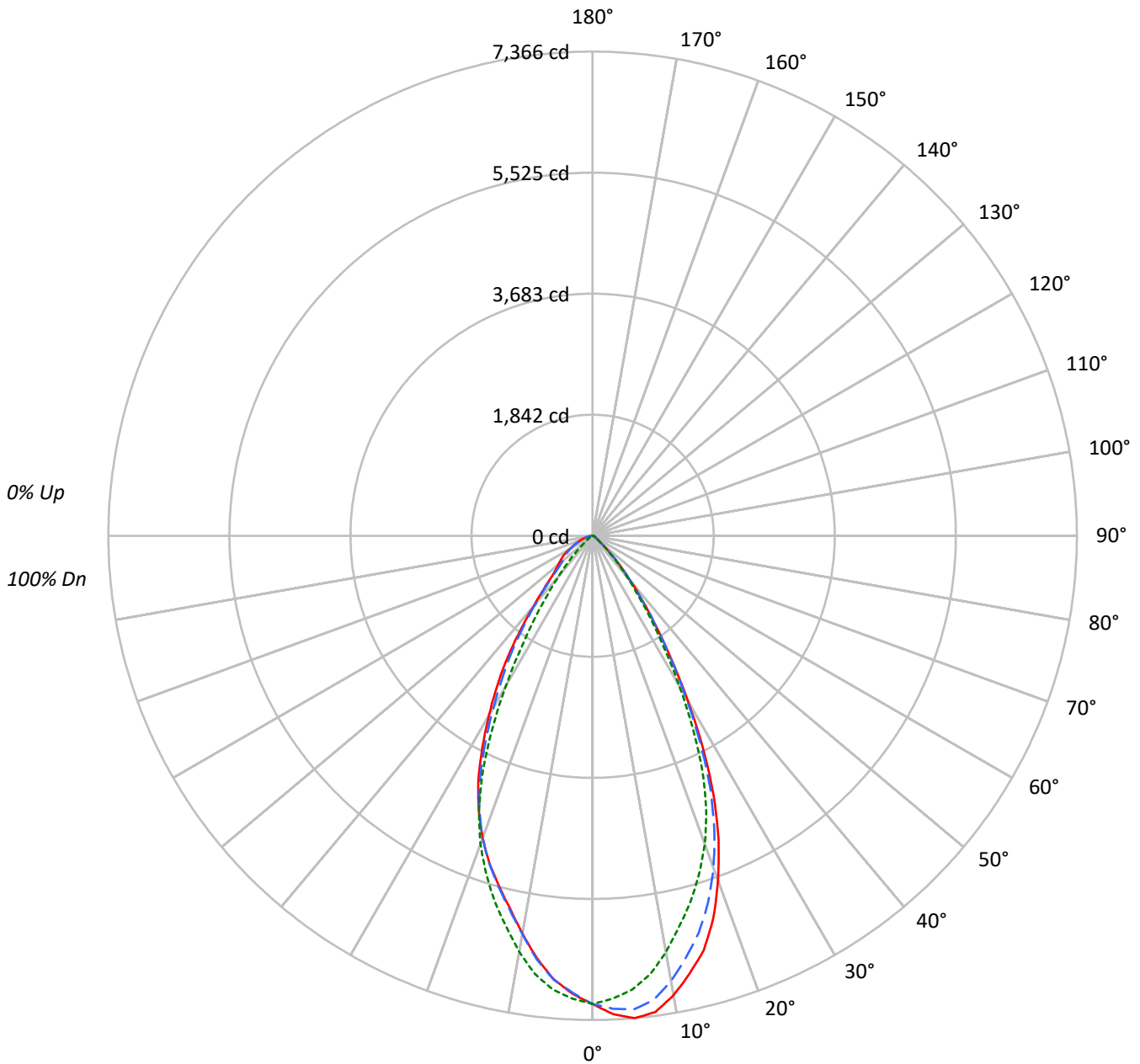
Lumens per Lamp: N/A  
Luminaire Lumens: 6133.0 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	390506	390506	390506
5°	405359	381344	372721
10°	394988	357698	341961
15°	370445	326846	312715
20°	325213	290969	285409
25°	263023	239046	248899
30°	182857	166519	199195
35°	112698	102004	150336
40°	63777	57179	99844
45°	30972	29546	68139
50°	11795	11795	57926
55°	6461	7637	53456
60°	4715	6063	43801
65°	3982	5189	35879
70°	3446	4440	29556
75°	3262	4554	25396
80°	1926	3883	18437
85°	1950	7737	17423



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	652.1	10.6
10°-20°	1639.0	26.7
20°-30°	1845.1	30.1
30°-40°	1142.5	18.6
40°-50°	455.0	7.4
50°-60°	207.1	3.4
60°-70°	119.1	1.9
70°-80°	56.5	0.9
80°-90°	16.5	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°	4136.3	67.4
0°-40°	5278.8	86.1
0°-60°	5940.9	96.9
0°-90°	6133.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6133.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	7123	7123	7123	7123	7123	
5°	7366	7231	6930	6779	6773	694
15°	6527	6244	5759	5525	5510	1806
25°	4348	4232	3952	4050	4115	1955
35°	1684	1675	1524	2124	2246	1082
45°	400	400	381	830	879	339
55°	68	64	80	492	559	67
65°	31	28	40	274	277	30
75°	15	15	22	117	120	16
85°	3	3	12	28	28	3
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°	7123.4	7123.4	7123.4	7123.4	7123.4	7123.4	7123.4	7123.4	7123.4
2.5°	7286.3	7218.7	7203.3	7144.9	7046.6	6991.3	6957.5	6932.9	6975.9
5°	7366.2	7292.4	7231.0	7111.1	6929.8	6828.4	6779.2	6739.3	6773.1
7.5°	7307.8	7203.3	7120.3	6954.4	6723.9	6567.2	6499.6	6453.5	6484.2
10°	7095.7	6969.7	6874.5	6677.8	6425.8	6238.4	6155.4	6112.4	6143.1
12.5°	6819.2	6714.7	6570.2	6355.1	6084.7	5888.0	5826.6	5792.8	5805.0
15°	6527.2	6404.3	6244.5	6029.4	5759.0	5562.3	5525.4	5503.9	5510.0
17.5°	6103.1	5983.3	5845.0	5636.0	5387.1	5227.3	5227.3	5211.9	5221.2
20°	5574.6	5510.0	5374.8	5199.7	4987.6	4843.2	4889.3	4873.9	4892.3
22.5°	5003.0	4953.8	4837.0	4692.6	4514.4	4400.7	4502.1	4499.0	4523.6
25°	4348.4	4311.5	4231.6	4108.7	3952.0	3881.3	4050.3	4050.3	4114.9
27.5°	3626.2	3589.4	3534.0	3429.6	3300.5	3279.0	3527.9	3558.6	3629.3
30°	2888.7	2864.1	2833.4	2738.1	2630.6	2670.5	3014.7	3066.9	3146.8
32.5°	2231.1	2215.7	2206.5	2120.4	2025.2	2157.3	2550.7	2618.3	2698.2
35°	1684.0	1650.2	1674.8	1610.3	1524.2	1690.2	2123.5	2181.9	2246.4
37.5°	1241.5	1216.9	1238.5	1192.4	1115.5	1296.8	1705.6	1742.4	1785.5
40°	891.2	869.7	888.1	860.5	799.0	968.0	1336.8	1376.7	1395.2
42.5°	633.1	596.2	614.6	593.1	562.4	728.3	1051.0	1087.9	1094.0
45°	399.5	387.2	399.5	387.2	381.1	540.9	829.7	863.5	878.9
47.5°	242.8	227.4	227.4	221.3	227.4	399.5	685.3	734.5	759.1
50°	138.3	132.1	129.1	126.0	138.3	313.5	593.1	648.4	679.2
52.5°	92.2	89.1	89.1	86.0	101.4	264.3	534.7	583.9	614.6
55°	67.6	64.5	64.5	64.5	79.9	227.4	491.7	531.6	559.3
57.5°	52.2	52.2	52.2	49.2	67.6	193.6	439.5	461.0	482.5
60°	43.0	40.0	40.0	40.0	55.3	165.9	378.0	387.2	399.5
62.5°	33.8	33.8	33.8	33.8	46.1	147.5	325.7	325.7	331.9
65°	30.7	27.7	27.7	27.7	40.0	129.1	273.5	270.4	276.6
67.5°	24.6	24.6	24.6	24.6	33.8	110.6	224.3	221.3	227.4
70°	21.5	21.5	21.5	21.5	27.7	92.2	181.3	178.2	184.4
72.5°	18.4	18.4	18.4	18.4	24.6	76.8	144.4	144.4	147.5
75°	15.4	15.4	15.4	15.4	21.5	58.4	116.8	116.8	119.9
77.5°	12.3	12.3	12.3	12.3	15.4	46.1	89.1	86.0	86.0
80°	6.1	9.2	9.2	9.2	12.3	33.8	64.5	58.4	58.4
82.5°	3.1	6.1	6.1	6.1	12.3	24.6	43.0	40.0	40.0
85°	3.1	3.1	3.1	9.2	12.3	18.4	27.7	27.7	27.7
87.5°	0.0	3.1	6.1	12.3	15.4	15.4	18.4	15.4	15.4
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)