

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: P800033

Luminaire Tested: **LD6C70D010 EU6709030 6LBMDSWMW**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P800033  
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 EU6709030 6LBMDSWMW  
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

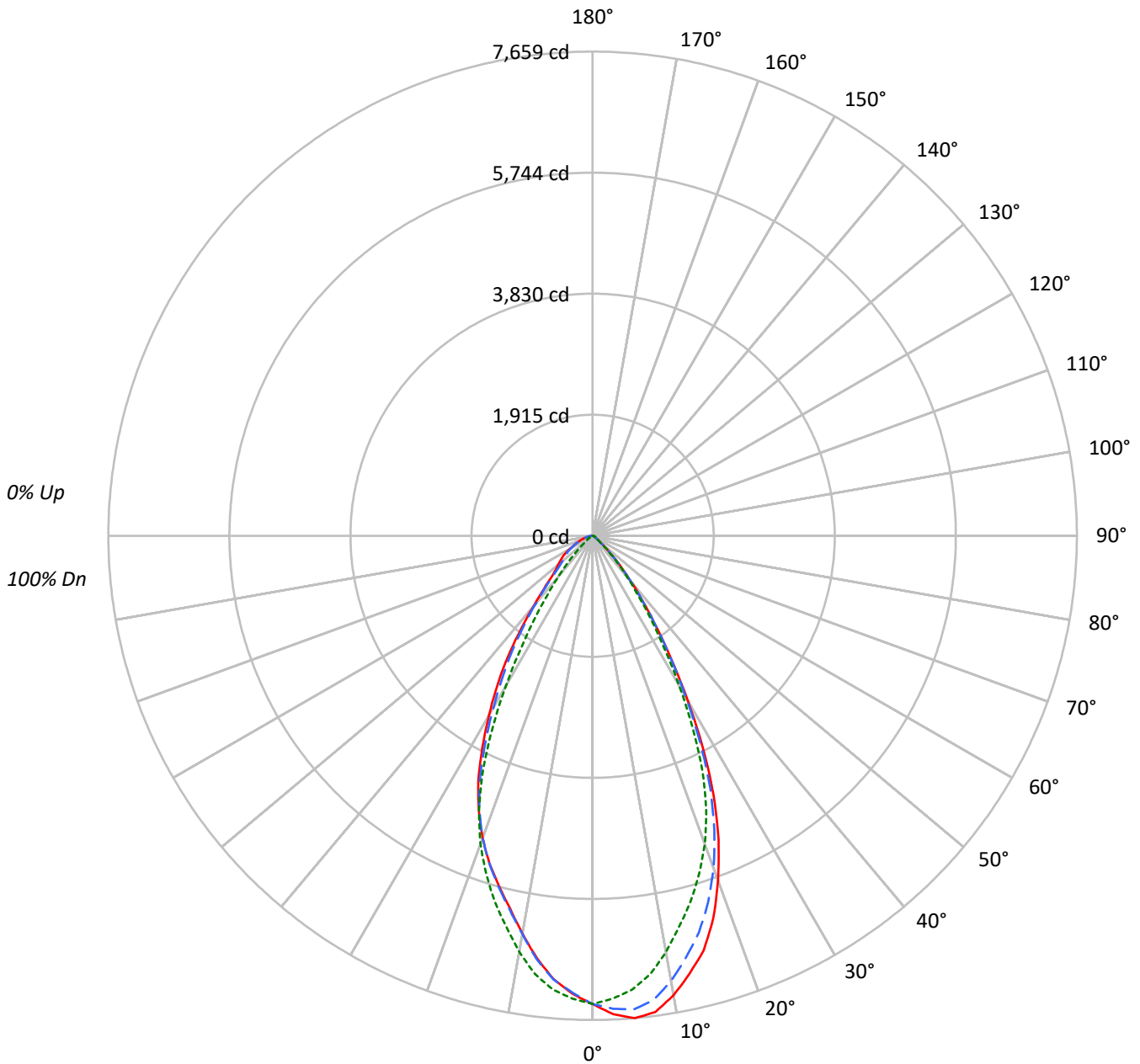
Lumens per Lamp: N/A  
Luminaire Lumens: 6377.0 lumens  
Efficiency: N/A  
Efficacy: 81.8 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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									
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°	406042	406042	406042
5°	421483	396516	387546
10°	410703	371931	355566
15°	385184	339849	325155
20°	338153	302543	296767
25°	273488	248555	258801
30°	190131	173141	207120
35°	117182	106066	156319
40°	66310	59454	103816
45°	32205	30716	70852
50°	12264	12264	60228
55°	6719	7942	55587
60°	4901	6304	45545
65°	4151	5383	37306
70°	3590	4616	30726
75°	3389	4745	26391
80°	2020	4041	19163
85°	2013	8051	18115



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	678.1	10.6
10°-20°	1704.2	26.7
20°-30°	1918.5	30.1
30°-40°	1188.0	18.6
40°-50°	473.1	7.4
50°-60°	215.4	3.4
60°-70°	123.8	1.9
70°-80°	58.8	0.9
80°-90°	17.2	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°	4300.8	67.4
0°-40°	5488.8	86.1
0°-60°	6177.3	96.9
0°-90°	6377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6377.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	7407	7407	7407	7407	7407	
5°	7659	7519	7206	7049	7042	721
15°	6787	6493	5988	5745	5729	1878
25°	4521	4400	4109	4212	4279	2032
35°	1751	1742	1585	2208	2336	1125
45°	415	415	396	863	914	352
55°	70	67	83	511	582	70
65°	32	29	42	284	288	31
75°	16	16	22	121	125	16
85°	3	3	13	29	29	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°	7406.8	7406.8	7406.8	7406.8	7406.8	7406.8	7406.8	7406.8	7406.8
2.5°	7576.2	7505.9	7489.9	7429.2	7326.9	7269.4	7234.3	7208.7	7253.4
5°	7659.2	7582.5	7518.6	7394.0	7205.5	7100.1	7048.9	7007.4	7042.5
7.5°	7598.5	7489.9	7403.6	7231.1	6991.4	6828.4	6758.1	6710.2	6742.2
10°	7378.0	7247.0	7148.0	6943.5	6681.5	6486.5	6400.3	6355.5	6387.5
12.5°	7090.5	6981.8	6831.6	6608.0	6326.8	6122.3	6058.4	6023.2	6036.0
15°	6786.9	6659.1	6492.9	6269.3	5988.1	5783.6	5745.2	5722.9	5729.2
17.5°	6346.0	6221.3	6077.5	5860.3	5601.4	5435.3	5435.3	5419.3	5428.9
20°	5796.4	5729.2	5588.7	5406.5	5186.0	5035.9	5083.8	5067.8	5087.0
22.5°	5202.0	5150.9	5029.5	4879.3	4694.0	4575.7	4681.2	4678.0	4703.5
25°	4521.4	4483.1	4400.0	4272.2	4109.2	4035.7	4211.5	4211.5	4278.6
27.5°	3770.5	3732.2	3674.6	3566.0	3431.8	3409.4	3668.3	3700.2	3773.7
30°	3003.6	2978.1	2946.1	2847.1	2735.2	2776.8	3134.6	3189.0	3272.0
32.5°	2319.8	2303.8	2294.3	2204.8	2105.7	2243.1	2652.1	2722.4	2805.5
35°	1751.0	1715.9	1741.5	1674.4	1584.9	1757.4	2208.0	2268.7	2335.8
37.5°	1290.9	1265.4	1287.7	1239.8	1159.9	1348.4	1773.4	1811.8	1856.5
40°	926.6	904.3	923.5	894.7	830.8	1006.5	1390.0	1431.5	1450.7
42.5°	658.2	619.9	639.1	616.7	584.7	757.3	1092.8	1131.2	1137.5
45°	415.4	402.6	415.4	402.6	396.2	562.4	862.7	897.9	913.9
47.5°	252.4	236.5	236.5	230.1	236.5	415.4	712.6	763.7	789.2
50°	143.8	137.4	134.2	131.0	143.8	325.9	616.7	674.2	706.2
52.5°	95.9	92.7	92.7	89.5	105.4	274.8	556.0	607.1	639.1
55°	70.3	67.1	67.1	67.1	83.1	236.5	511.3	552.8	581.6
57.5°	54.3	54.3	54.3	51.1	70.3	201.3	456.9	479.3	501.7
60°	44.7	41.5	41.5	41.5	57.5	172.5	393.0	402.6	415.4
62.5°	35.1	35.1	35.1	35.1	47.9	153.4	338.7	338.7	345.1
65°	32.0	28.8	28.8	28.8	41.5	134.2	284.4	281.2	287.6
67.5°	25.6	25.6	25.6	25.6	35.1	115.0	233.3	230.1	236.5
70°	22.4	22.4	22.4	22.4	28.8	95.9	188.5	185.3	191.7
72.5°	19.2	19.2	19.2	19.2	25.6	79.9	150.2	150.2	153.4
75°	16.0	16.0	16.0	16.0	22.4	60.7	121.4	121.4	124.6
77.5°	12.8	12.8	12.8	12.8	16.0	47.9	92.7	89.5	89.5
80°	6.4	9.6	9.6	9.6	12.8	35.1	67.1	60.7	60.7
82.5°	3.2	6.4	6.4	6.4	12.8	25.6	44.7	41.5	41.5
85°	3.2	3.2	3.2	9.6	12.8	19.2	28.8	28.8	28.8
87.5°	0.0	3.2	6.4	12.8	16.0	16.0	19.2	16.0	16.0
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)