

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: P800057

Luminaire Tested: **LD6C70D010 EU6709040 6LBMDSWMW**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P800057  
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 EU6709040 6LBMDSWMW  
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

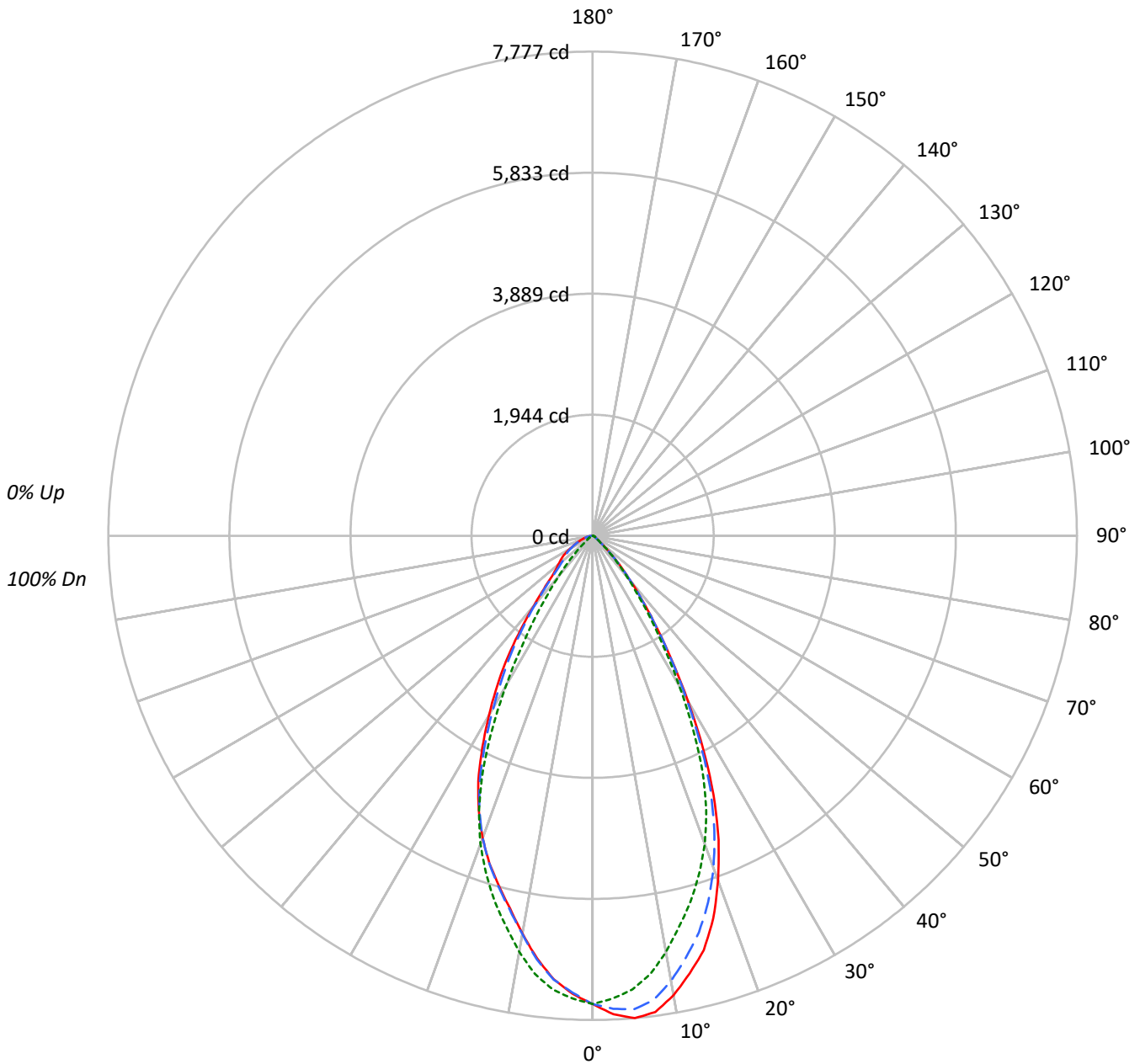
Lumens per Lamp: N/A  
Luminaire Lumens: 6475.0 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	412281	412281	412281
5°	427959	402607	393505
10°	417015	377643	361032
15°	391103	345070	330155
20°	343345	307193	301330
25°	277691	252377	262775
30°	193055	175799	210305
35°	118989	107693	158721
40°	67333	60370	105412
45°	32701	31189	71938
50°	12452	12452	61149
55°	6824	8067	56438
60°	4978	6403	46246
65°	4203	5474	37877
70°	3638	4680	31207
75°	3431	4808	26794
80°	2052	4104	19447
85°	2013	8177	18367



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	688.5	10.6
10°-20°	1730.4	26.7
20°-30°	1948.0	30.1
30°-40°	1206.2	18.6
40°-50°	480.4	7.4
50°-60°	218.7	3.4
60°-70°	125.7	1.9
70°-80°	59.7	0.9
80°-90°	17.4	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°	4366.9	67.4
0°-40°	5573.1	86.1
0°-60°	6272.2	96.9
0°-90°	6475.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6475.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	7521	7521	7521	7521	7521	
5°	7777	7634	7316	7157	7151	732
15°	6891	6593	6080	5834	5817	1907
25°	4591	4468	4172	4276	4344	2064
35°	1778	1768	1609	2242	2372	1143
45°	422	422	402	876	928	357
55°	71	68	84	519	590	71
65°	32	29	42	289	292	32
75°	16	16	23	123	126	17
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°	7520.6	7520.6	7520.6	7520.6	7520.6	7520.6	7520.6	7520.6	7520.6
2.5°	7692.6	7621.2	7605.0	7543.3	7439.5	7381.1	7345.4	7319.5	7364.9
5°	7776.9	7699.1	7634.2	7507.7	7316.2	7209.2	7157.3	7115.1	7150.8
7.5°	7715.3	7605.0	7517.4	7342.2	7098.9	6933.4	6862.0	6813.3	6845.8
10°	7491.4	7358.4	7257.8	7050.2	6784.1	6586.2	6498.6	6453.2	6485.7
12.5°	7199.4	7089.1	6936.6	6709.5	6424.0	6216.4	6151.5	6115.8	6128.8
15°	6891.2	6761.4	6592.7	6365.6	6080.1	5872.5	5833.5	5810.8	5817.3
17.5°	6443.5	6316.9	6170.9	5950.3	5687.5	5518.8	5518.8	5502.6	5512.3
20°	5885.4	5817.3	5674.5	5489.6	5265.7	5113.2	5161.9	5145.7	5165.2
22.5°	5282.0	5230.0	5106.8	4954.3	4766.1	4646.0	4753.1	4749.9	4775.8
25°	4590.9	4552.0	4467.6	4337.8	4172.4	4097.7	4276.2	4276.2	4344.3
27.5°	3828.4	3789.5	3731.1	3620.8	3484.5	3461.8	3724.6	3757.1	3831.7
30°	3049.8	3023.8	2991.4	2890.8	2777.2	2819.4	3182.8	3238.0	3322.3
32.5°	2355.5	2339.2	2329.5	2238.7	2138.1	2277.6	2692.9	2764.3	2848.6
35°	1778.0	1742.3	1768.2	1700.1	1609.2	1784.4	2241.9	2303.6	2371.7
37.5°	1310.8	1284.8	1307.5	1258.8	1177.7	1369.2	1800.7	1839.6	1885.0
40°	940.9	918.2	937.6	908.4	843.6	1022.0	1411.3	1453.5	1473.0
42.5°	668.4	629.4	648.9	626.2	593.7	768.9	1109.6	1148.5	1155.0
45°	421.8	408.8	421.8	408.8	402.3	571.0	876.0	911.7	927.9
47.5°	256.3	240.1	240.1	233.6	240.1	421.8	723.5	775.4	801.4
50°	146.0	139.5	136.3	133.0	146.0	330.9	626.2	684.6	717.0
52.5°	97.3	94.1	94.1	90.8	107.1	279.0	564.5	616.4	648.9
55°	71.4	68.1	68.1	68.1	84.4	240.1	519.1	561.3	590.5
57.5°	55.2	55.2	55.2	51.9	71.4	204.4	464.0	486.7	509.4
60°	45.4	42.2	42.2	42.2	58.4	175.2	399.1	408.8	421.8
62.5°	35.7	35.7	35.7	35.7	48.7	155.7	343.9	343.9	350.4
65°	32.4	29.2	29.2	29.2	42.2	136.3	288.8	285.5	292.0
67.5°	26.0	26.0	26.0	26.0	35.7	116.8	236.8	233.6	240.1
70°	22.7	22.7	22.7	22.7	29.2	97.3	191.4	188.2	194.7
72.5°	19.5	19.5	19.5	19.5	26.0	81.1	152.5	152.5	155.7
75°	16.2	16.2	16.2	16.2	22.7	61.6	123.3	123.3	126.5
77.5°	13.0	13.0	13.0	13.0	16.2	48.7	94.1	90.8	90.8
80°	6.5	9.7	9.7	9.7	13.0	35.7	68.1	61.6	61.6
82.5°	3.2	6.5	6.5	6.5	13.0	26.0	45.4	42.2	42.2
85°	3.2	3.2	3.2	9.7	13.0	19.5	29.2	29.2	29.2
87.5°	0.0	3.2	6.5	13.0	16.2	16.2	19.5	16.2	16.2
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)