

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: P799780

Luminaire Tested: **LD6C50D010 EU6509027 6LBMDSWLI**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799780  
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 6LBMDSWLI  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

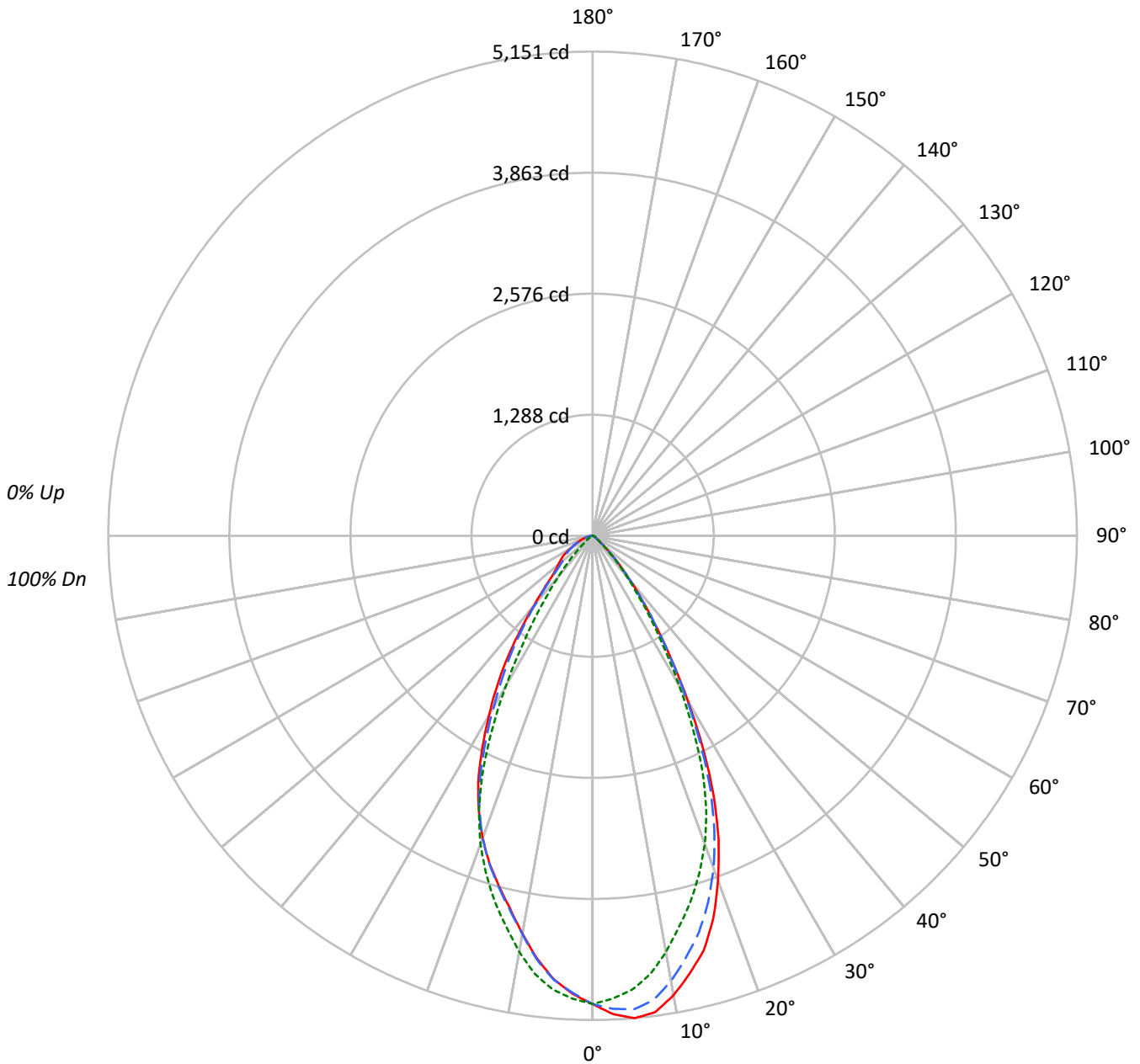
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4288.9 lumens  
Efficiency: N/A  
Efficacy: 73.4 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									
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°	273092	273092	273092
5°	283479	266684	260653
10°	276231	250151	239146
15°	259065	228571	218690
20°	227432	203484	199599
25°	183942	167169	174058
30°	127880	116448	139306
35°	78815	71340	105136
40°	44598	39989	69824
45°	21661	20661	47648
50°	8247	8247	40510
55°	4521	5343	37380
60°	3300	4243	30634
65°	2789	3619	25087
70°	2404	3093	20661
75°	2266	3177	17750
80°	1357	2715	12880
85°	1321	5409	12140



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	456.1	10.6
10°-20°	1146.2	26.7
20°-30°	1290.3	30.1
30°-40°	799.0	18.6
40°-50°	318.2	7.4
50°-60°	144.9	3.4
60°-70°	83.3	1.9
70°-80°	39.5	0.9
80°-90°	11.5	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°	2892.6	67.4
0°-40°	3691.6	86.1
0°-60°	4154.7	96.9
0°-90°	4288.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4288.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4982	4982	4982	4982	4982	
5°	5151	5057	4846	4741	4737	485
15°	4565	4367	4027	3864	3853	1263
25°	3041	2959	2764	2832	2878	1367
35°	1178	1171	1066	1485	1571	757
45°	279	279	266	580	615	237
55°	47	45	56	344	391	47
65°	22	19	28	191	193	21
75°	11	11	15	82	84	11
85°	2	2	9	19	19	2
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°	4981.6	4981.6	4981.6	4981.6	4981.6	4981.6	4981.6	4981.6	4981.6
2.5°	5095.5	5048.2	5037.5	4996.7	4927.9	4889.2	4865.6	4848.4	4878.5
5°	5151.4	5099.8	5056.8	4973.0	4846.2	4775.3	4740.9	4713.0	4736.6
7.5°	5110.6	5037.5	4979.5	4863.4	4702.2	4592.6	4545.4	4513.1	4534.6
10°	4962.3	4874.2	4807.5	4670.0	4493.8	4362.7	4304.7	4274.6	4296.1
12.5°	4768.9	4695.8	4594.8	4444.3	4255.2	4117.7	4074.7	4051.1	4059.7
15°	4564.7	4478.7	4367.0	4216.5	4027.4	3889.9	3864.1	3849.0	3853.3
17.5°	4268.1	4184.3	4087.6	3941.5	3767.4	3655.6	3655.6	3644.9	3651.3
20°	3898.5	3853.3	3758.8	3636.3	3488.0	3387.0	3419.2	3408.5	3421.4
22.5°	3498.7	3464.4	3382.7	3281.7	3157.0	3077.5	3148.4	3146.3	3163.5
25°	3041.0	3015.2	2959.3	2873.3	2763.7	2714.3	2832.5	2832.5	2877.6
27.5°	2535.9	2510.2	2471.5	2398.4	2308.1	2293.1	2467.2	2488.7	2538.1
30°	2020.2	2003.0	1981.5	1914.9	1839.6	1867.6	2108.3	2144.8	2200.7
32.5°	1560.2	1549.5	1543.1	1482.9	1416.3	1508.7	1783.8	1831.0	1886.9
35°	1177.7	1154.1	1171.3	1126.1	1066.0	1182.0	1485.0	1525.9	1571.0
37.5°	868.2	851.0	866.1	833.9	780.1	906.9	1192.8	1218.5	1248.6
40°	623.2	608.2	621.1	601.7	558.8	677.0	934.9	962.8	975.7
42.5°	442.7	416.9	429.8	414.8	393.3	509.3	735.0	760.8	765.1
45°	279.4	270.8	279.4	270.8	266.5	378.2	580.3	603.9	614.6
47.5°	169.8	159.0	159.0	154.7	159.0	279.4	479.2	513.6	530.8
50°	96.7	92.4	90.3	88.1	96.7	219.2	414.8	453.5	475.0
52.5°	64.5	62.3	62.3	60.2	70.9	184.8	373.9	408.3	429.8
55°	47.3	45.1	45.1	45.1	55.9	159.0	343.9	371.8	391.1
57.5°	36.5	36.5	36.5	34.4	47.3	135.4	307.3	322.4	337.4
60°	30.1	27.9	27.9	27.9	38.7	116.1	264.3	270.8	279.4
62.5°	23.6	23.6	23.6	23.6	32.2	103.2	227.8	227.8	232.1
65°	21.5	19.3	19.3	19.3	27.9	90.3	191.3	189.1	193.4
67.5°	17.2	17.2	17.2	17.2	23.6	77.4	156.9	154.7	159.0
70°	15.0	15.0	15.0	15.0	19.3	64.5	126.8	124.6	128.9
72.5°	12.9	12.9	12.9	12.9	17.2	53.7	101.0	101.0	103.2
75°	10.7	10.7	10.7	10.7	15.0	40.8	81.7	81.7	83.8
77.5°	8.6	8.6	8.6	8.6	10.7	32.2	62.3	60.2	60.2
80°	4.3	6.4	6.4	6.4	8.6	23.6	45.1	40.8	40.8
82.5°	2.1	4.3	4.3	4.3	8.6	17.2	30.1	27.9	27.9
85°	2.1	2.1	2.1	6.4	8.6	12.9	19.3	19.3	19.3
87.5°	0.0	2.1	4.3	8.6	10.7	10.7	12.9	10.7	10.7
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)