

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: P799792

Luminaire Tested: **LD6C50D010 EU6509030 6LBMDSWLI**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799792  
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 EU6509030 6LBMDSWLI  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

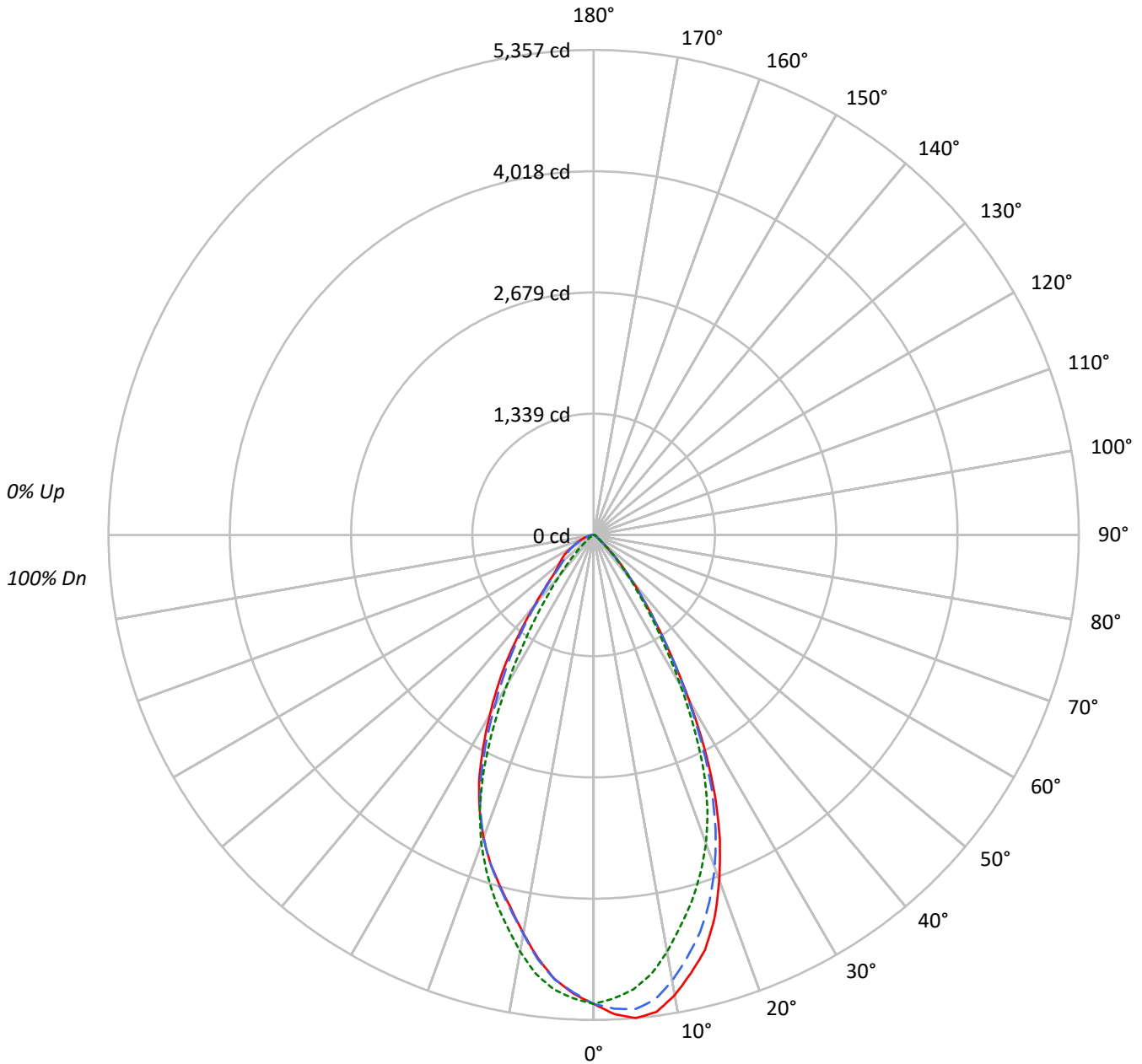
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4460.0 lumens  
Efficiency: N/A  
Efficacy: 76.4 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°	283979	283979	283979
5°	294782	277316	271048
10°	287241	260121	248676
15°	269394	237686	227413
20°	236498	211599	207556
25°	191273	173835	181002
30°	132976	121095	144858
35°	81961	74184	109326
40°	46380	41578	72607
45°	22522	21483	49548
50°	8580	8580	42122
55°	4702	5553	38871
60°	3432	4408	31851
65°	2893	3775	26086
70°	2500	3222	21494
75°	2372	3304	18470
80°	1421	2810	13417
85°	1384	5598	12643



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	474.2	10.6
10°-20°	1191.9	26.7
20°-30°	1341.8	30.1
30°-40°	830.8	18.6
40°-50°	330.9	7.4
50°-60°	150.6	3.4
60°-70°	86.6	1.9
70°-80°	41.1	0.9
80°-90°	12.0	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°	3007.9	67.4
0°-40°	3838.8	86.1
0°-60°	4320.3	96.9
0°-90°	4460.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4460.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5180	5180	5180	5180	5180	
5°	5357	5258	5039	4930	4926	504
15°	4747	4541	4188	4018	4007	1313
25°	3162	3077	2874	2945	2992	1421
35°	1225	1218	1108	1544	1634	787
45°	290	290	277	603	639	246
55°	49	47	58	358	407	49
65°	22	20	29	199	201	22
75°	11	11	16	85	87	11
85°	2	2	9	20	20	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°	5180.2	5180.2	5180.2	5180.2	5180.2	5180.2	5180.2	5180.2	5180.2
2.5°	5298.7	5249.5	5238.3	5195.9	5124.4	5084.1	5059.6	5041.7	5073.0
5°	5356.8	5303.1	5258.5	5171.3	5039.4	4965.7	4929.9	4900.9	4925.5
7.5°	5314.3	5238.3	5178.0	5057.3	4889.7	4775.7	4726.6	4693.0	4715.4
10°	5160.1	5068.5	4999.2	4856.2	4672.9	4536.6	4476.3	4445.0	4467.3
12.5°	4959.0	4883.0	4778.0	4621.5	4424.9	4281.8	4237.2	4212.6	4221.5
15°	4746.7	4657.3	4541.1	4384.6	4188.0	4045.0	4018.1	4002.5	4007.0
17.5°	4438.3	4351.1	4250.6	4098.6	3917.6	3801.4	3801.4	3790.2	3796.9
20°	4053.9	4007.0	3908.6	3781.3	3627.1	3522.0	3555.5	3544.4	3557.8
22.5°	3638.2	3602.5	3517.6	3412.5	3282.9	3200.2	3274.0	3271.7	3289.6
25°	3162.2	3135.4	3077.3	2987.9	2873.9	2822.5	2945.4	2945.4	2992.4
27.5°	2637.0	2610.2	2570.0	2494.0	2400.2	2384.5	2565.5	2587.9	2639.3
30°	2100.7	2082.8	2060.5	1991.2	1913.0	1942.0	2192.3	2230.3	2288.4
32.5°	1622.5	1611.3	1604.6	1542.0	1472.7	1568.8	1854.9	1904.0	1962.1
35°	1224.7	1200.1	1218.0	1171.0	1108.5	1229.1	1544.2	1586.7	1633.6
37.5°	902.9	885.0	900.6	867.1	811.2	943.1	1240.3	1267.1	1298.4
40°	648.1	632.4	645.9	625.7	581.0	704.0	972.1	1001.2	1014.6
42.5°	460.4	433.5	447.0	431.3	409.0	529.6	764.3	791.1	795.6
45°	290.5	281.6	290.5	281.6	277.1	393.3	603.4	628.0	639.1
47.5°	176.5	165.4	165.4	160.9	165.4	290.5	498.4	534.1	552.0
50°	100.6	96.1	93.9	91.6	100.6	227.9	431.3	471.5	493.9
52.5°	67.0	64.8	64.8	62.6	73.7	192.2	388.9	424.6	447.0
55°	49.2	46.9	46.9	46.9	58.1	165.4	357.6	386.6	406.7
57.5°	38.0	38.0	38.0	35.8	49.2	140.8	319.6	335.2	350.9
60°	31.3	29.1	29.1	29.1	40.2	120.7	274.9	281.6	290.5
62.5°	24.6	24.6	24.6	24.6	33.5	107.3	236.9	236.9	241.4
65°	22.3	20.1	20.1	20.1	29.1	93.9	198.9	196.7	201.1
67.5°	17.9	17.9	17.9	17.9	24.6	80.5	163.1	160.9	165.4
70°	15.6	15.6	15.6	15.6	20.1	67.0	131.9	129.6	134.1
72.5°	13.4	13.4	13.4	13.4	17.9	55.9	105.0	105.0	107.3
75°	11.2	11.2	11.2	11.2	15.6	42.5	84.9	84.9	87.2
77.5°	8.9	8.9	8.9	8.9	11.2	33.5	64.8	62.6	62.6
80°	4.5	6.7	6.7	6.7	8.9	24.6	46.9	42.5	42.5
82.5°	2.2	4.5	4.5	4.5	8.9	17.9	31.3	29.1	29.1
85°	2.2	2.2	2.2	6.7	8.9	13.4	20.1	20.1	20.1
87.5°	0.0	2.2	4.5	8.9	11.2	11.2	13.4	11.2	11.2
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)