

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: P799826

Luminaire Tested: **LD6C50D010 EU6509050 6LBMDSWGPH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799826  
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 EU6509050 6LBMDSWGPH  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

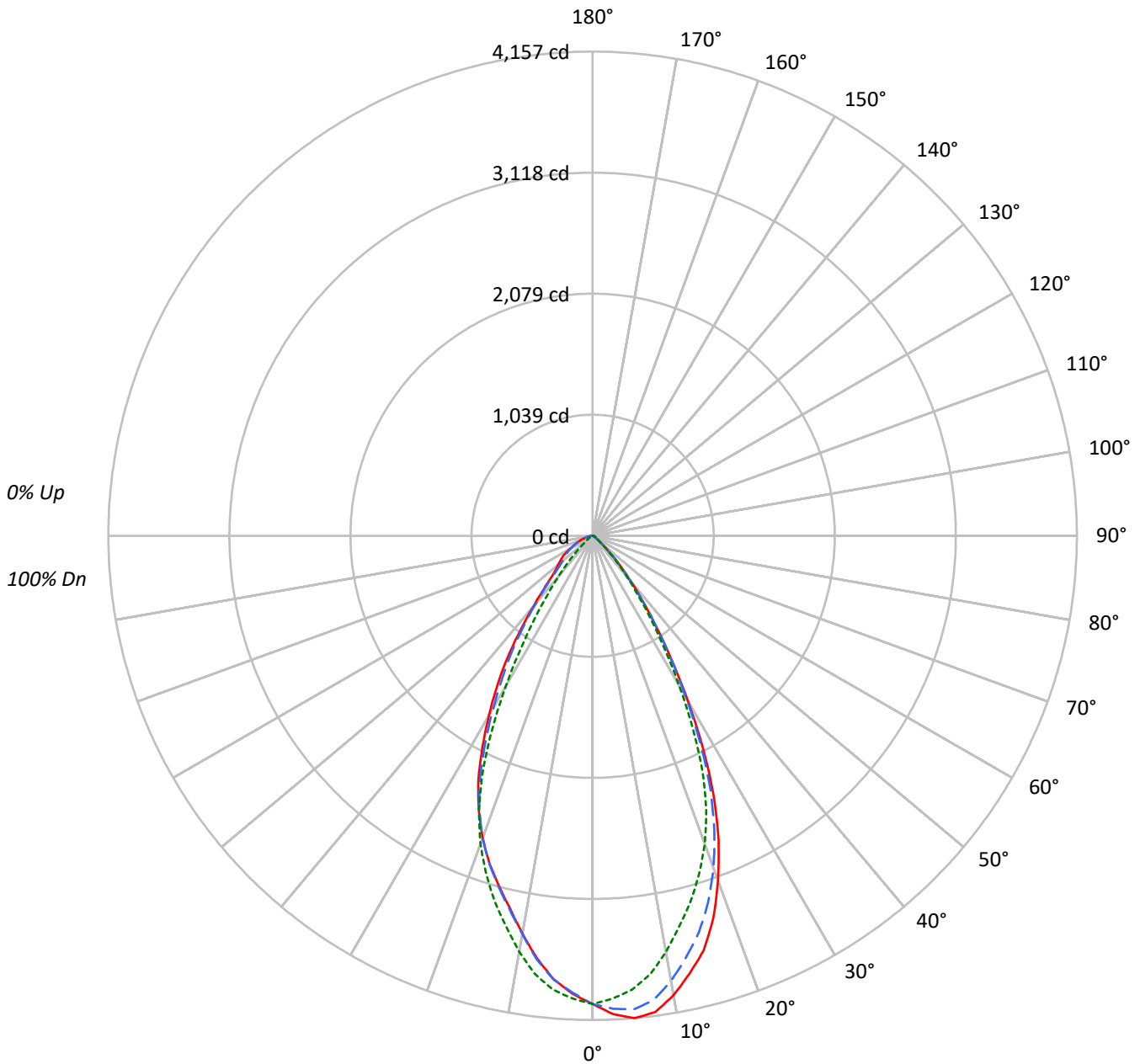
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3461.0 lumens  
Efficiency: N/A  
Efficacy: 59.3 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				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			100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92			92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78			78
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73			73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67			67
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63			63
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59			59
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55			55
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52			52
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49			49

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	220372	220372	220372
5°	228752	215204	210334
10°	222903	201856	192977
15°	209053	184445	176471
20°	183527	164199	161067
25°	148430	134899	140458
30°	103193	93970	112410
35°	63597	57567	84838
40°	35989	32268	56341
45°	17475	16668	38454
50°	6652	6652	32690
55°	3651	4310	30164
60°	2664	3421	24713
65°	2244	2919	20249
70°	1939	2500	16686
75°	1843	2563	14318
80°	1105	2178	10418
85°	1069	4340	9812



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	368.0	10.6
10°-20°	924.9	26.7
20°-30°	1041.2	30.1
30°-40°	644.7	18.6
40°-50°	256.7	7.4
50°-60°	116.9	3.4
60°-70°	67.2	1.9
70°-80°	31.9	0.9
80°-90°	9.3	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°	2334.2	67.4
0°-40°	2978.9	86.1
0°-60°	3352.6	96.9
0°-90°	3461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3461.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4020	4020	4020	4020	4020	
5°	4157	4081	3911	3826	3822	391
15°	3684	3524	3250	3118	3109	1019
25°	2454	2388	2230	2286	2322	1103
35°	950	945	860	1198	1268	611
45°	225	225	215	468	496	191
55°	38	36	45	278	316	38
65°	17	16	22	154	156	17
75°	9	9	12	66	68	9
85°	2	2	7	16	16	1
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°	4019.9	4019.9	4019.9	4019.9	4019.9	4019.9	4019.9	4019.9	4019.9
2.5°	4111.8	4073.7	4065.0	4032.0	3976.6	3945.3	3926.3	3912.4	3936.7
5°	4156.9	4115.3	4080.6	4013.0	3910.7	3853.4	3825.7	3803.1	3822.2
7.5°	4124.0	4065.0	4018.2	3924.5	3794.5	3706.0	3667.9	3641.8	3659.2
10°	4004.3	3933.2	3879.4	3768.4	3626.2	3520.5	3473.6	3449.4	3466.7
12.5°	3848.2	3789.3	3707.7	3586.4	3433.7	3322.8	3288.1	3269.0	3275.9
15°	3683.5	3614.1	3523.9	3402.5	3249.9	3138.9	3118.1	3106.0	3109.4
17.5°	3444.1	3376.5	3298.5	3180.5	3040.1	2949.9	2949.9	2941.2	2946.4
20°	3145.9	3109.4	3033.1	2934.3	2814.6	2733.1	2759.1	2750.5	2760.9
22.5°	2823.3	2795.6	2729.7	2648.1	2547.6	2483.4	2540.6	2538.9	2552.8
25°	2453.9	2433.1	2388.0	2318.6	2230.2	2190.3	2285.7	2285.7	2322.1
27.5°	2046.4	2025.6	1994.3	1935.4	1862.5	1850.4	1990.9	2008.2	2048.1
30°	1630.2	1616.3	1598.9	1545.2	1484.5	1507.0	1701.3	1730.7	1775.8
32.5°	1259.0	1250.4	1245.2	1196.6	1142.8	1217.4	1439.4	1477.6	1522.6
35°	950.3	931.3	945.1	908.7	860.2	953.8	1198.3	1231.3	1267.7
37.5°	700.6	686.7	698.9	672.9	629.5	731.8	962.5	983.3	1007.6
40°	502.9	490.8	501.2	485.6	450.9	546.3	754.4	776.9	787.3
42.5°	357.2	336.4	346.8	334.7	317.4	411.0	593.1	613.9	617.4
45°	225.4	218.5	225.4	218.5	215.0	305.2	468.2	487.3	496.0
47.5°	137.0	128.3	128.3	124.9	128.3	225.4	386.7	414.5	428.4
50°	78.0	74.6	72.8	71.1	78.0	176.9	334.7	365.9	383.3
52.5°	52.0	50.3	50.3	48.6	57.2	149.1	301.8	329.5	346.8
55°	38.2	36.4	36.4	36.4	45.1	128.3	277.5	300.0	315.6
57.5°	29.5	29.5	29.5	27.7	38.2	109.3	248.0	260.1	272.3
60°	24.3	22.5	22.5	22.5	31.2	93.6	213.3	218.5	225.4
62.5°	19.1	19.1	19.1	19.1	26.0	83.2	183.8	183.8	187.3
65°	17.3	15.6	15.6	15.6	22.5	72.8	154.3	152.6	156.1
67.5°	13.9	13.9	13.9	13.9	19.1	62.4	126.6	124.9	128.3
70°	12.1	12.1	12.1	12.1	15.6	52.0	102.3	100.6	104.1
72.5°	10.4	10.4	10.4	10.4	13.9	43.4	81.5	81.5	83.2
75°	8.7	8.7	8.7	8.7	12.1	33.0	65.9	65.9	67.6
77.5°	6.9	6.9	6.9	6.9	8.7	26.0	50.3	48.6	48.6
80°	3.5	5.2	5.2	5.2	6.9	19.1	36.4	33.0	33.0
82.5°	1.7	3.5	3.5	3.5	6.9	13.9	24.3	22.5	22.5
85°	1.7	1.7	1.7	5.2	6.9	10.4	15.6	15.6	15.6
87.5°	0.0	1.7	3.5	6.9	8.7	8.7	10.4	8.7	8.7
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)