

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: P799831

Luminaire Tested: **LD6C50D010 EU6509050 6LBMDSWWMH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799831  
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 6LBMDSWWMH  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH WMH FINISH  
Light Source: -  
Ballast/Driver: -

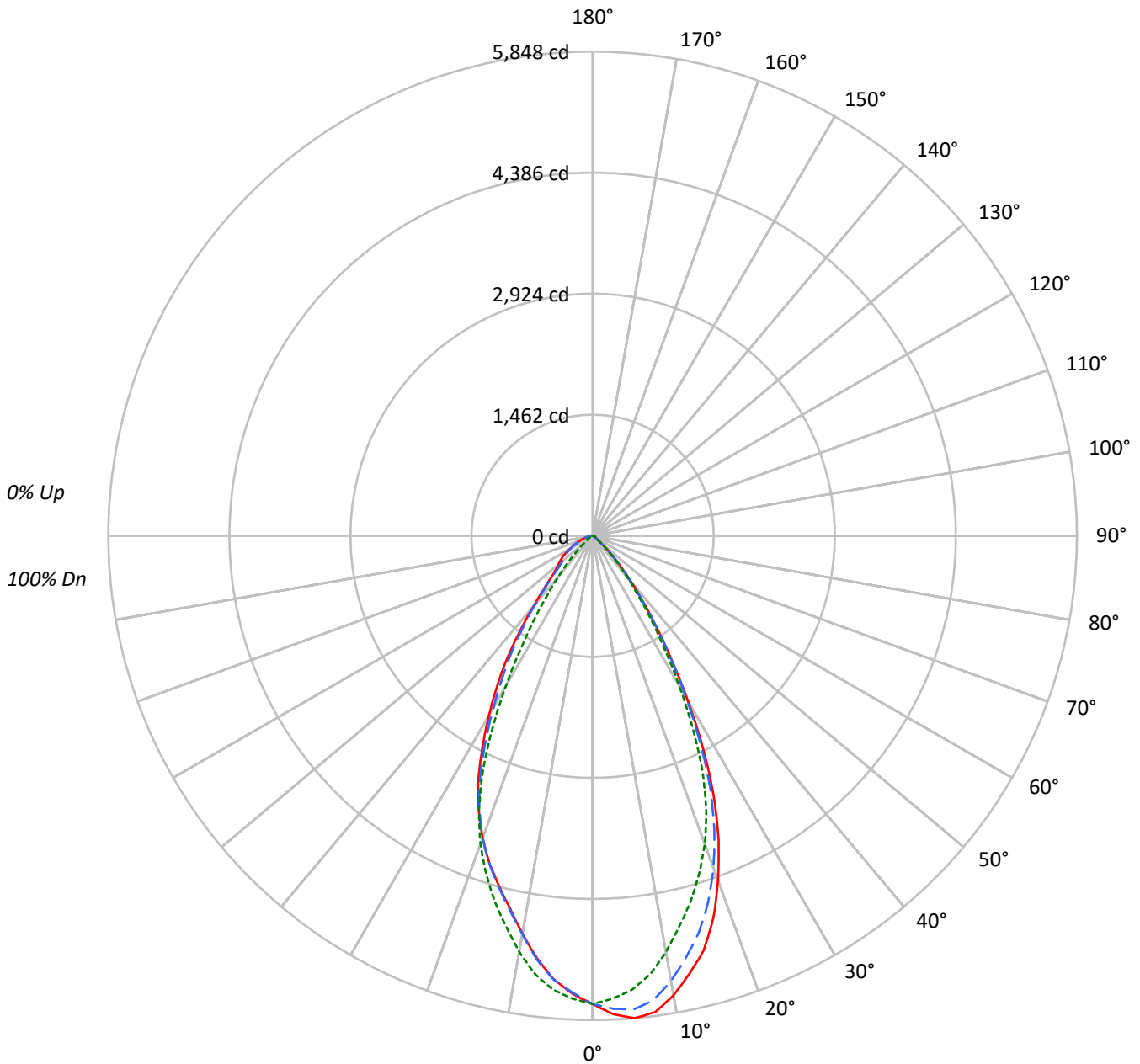
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4869.0 lumens  
Efficiency: N/A  
Efficacy: 83.4 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

TEST NUMBER: P799831

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

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

	0°	90°	180°
0°	310025	310025	310025
5°	321813	302751	295905
10°	313582	283979	271482
15°	294099	259479	248265
20°	258188	231003	226586
25°	208814	189779	197600
30°	145168	132198	158145
35°	89476	80984	119351
40°	50631	45392	79263
45°	24592	23452	54099
50°	9364	9364	45986
55°	5132	6060	42436
60°	3750	4813	34778
65°	3165	4112	28486
70°	2741	3526	23465
75°	2584	3622	20143
80°	1547	3094	14648
85°	1510	6164	13838



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	517.7	10.6
10°-20°	1301.2	26.7
20°-30°	1464.8	30.1
30°-40°	907.0	18.6
40°-50°	361.2	7.4
50°-60°	164.4	3.4
60°-70°	94.5	1.9
70°-80°	44.9	0.9
80°-90°	13.1	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°	3283.8	67.4
0°-40°	4190.8	86.1
0°-60°	4716.5	96.9
0°-90°	4869.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4869.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5655	5655	5655	5655	5655	
5°	5848	5741	5502	5382	5377	551
15°	5182	4958	4572	4387	4374	1434
25°	3452	3360	3138	3216	3267	1552
35°	1337	1330	1210	1686	1783	859
45°	317	317	302	659	698	269
55°	54	51	63	390	444	53
65°	24	22	32	217	220	24
75°	12	12	17	93	95	13
85°	2	2	10	22	22	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°	5655.3	5655.3	5655.3	5655.3	5655.3	5655.3	5655.3	5655.3	5655.3
2.5°	5784.6	5730.9	5718.7	5672.4	5594.3	5550.4	5523.5	5504.0	5538.2
5°	5848.0	5789.5	5740.7	5645.5	5501.6	5421.1	5382.0	5350.3	5377.2
7.5°	5801.7	5718.7	5652.8	5521.1	5338.1	5213.7	5160.0	5123.4	5147.8
10°	5633.3	5533.3	5457.7	5301.5	5101.5	4952.6	4886.8	4852.6	4877.0
12.5°	5413.7	5330.8	5216.1	5045.4	4830.7	4674.5	4625.7	4598.9	4608.6
15°	5182.0	5084.4	4957.5	4786.7	4572.0	4415.9	4386.6	4369.5	4374.4
17.5°	4845.3	4750.1	4640.4	4474.5	4276.8	4150.0	4150.0	4137.8	4145.1
20°	4425.7	4374.4	4267.1	4128.0	3959.7	3845.0	3881.6	3869.4	3884.0
22.5°	3971.9	3932.8	3840.1	3725.5	3584.0	3493.7	3574.2	3571.8	3591.3
25°	3452.2	3422.9	3359.5	3261.9	3137.5	3081.4	3215.6	3215.6	3266.8
27.5°	2878.9	2849.6	2805.7	2722.7	2620.3	2603.2	2800.8	2825.2	2881.3
30°	2293.3	2273.8	2249.4	2173.8	2088.4	2120.1	2393.4	2434.8	2498.3
32.5°	1771.2	1759.0	1751.7	1683.4	1607.8	1712.7	2025.0	2078.6	2142.1
35°	1337.0	1310.1	1329.6	1278.4	1210.1	1341.8	1685.8	1732.2	1783.4
37.5°	985.6	966.1	983.2	946.6	885.6	1029.6	1354.0	1383.3	1417.5
40°	707.5	690.4	705.1	683.1	634.3	768.5	1061.3	1093.0	1107.6
42.5°	502.6	473.3	487.9	470.9	446.5	578.2	834.4	863.7	868.5
45°	317.2	307.4	317.2	307.4	302.5	429.4	658.7	685.6	697.8
47.5°	192.7	180.5	180.5	175.7	180.5	317.2	544.1	583.1	602.6
50°	109.8	104.9	102.5	100.0	109.8	248.9	470.9	514.8	539.2
52.5°	73.2	70.8	70.8	68.3	80.5	209.8	424.5	463.5	487.9
55°	53.7	51.2	51.2	51.2	63.4	180.5	390.4	422.1	444.0
57.5°	41.5	41.5	41.5	39.0	53.7	153.7	348.9	366.0	383.0
60°	34.2	31.7	31.7	31.7	43.9	131.7	300.1	307.4	317.2
62.5°	26.8	26.8	26.8	26.8	36.6	117.1	258.6	258.6	263.5
65°	24.4	22.0	22.0	22.0	31.7	102.5	217.1	214.7	219.6
67.5°	19.5	19.5	19.5	19.5	26.8	87.8	178.1	175.7	180.5
70°	17.1	17.1	17.1	17.1	22.0	73.2	143.9	141.5	146.4
72.5°	14.6	14.6	14.6	14.6	19.5	61.0	114.7	114.7	117.1
75°	12.2	12.2	12.2	12.2	17.1	46.4	92.7	92.7	95.1
77.5°	9.8	9.8	9.8	9.8	12.2	36.6	70.8	68.3	68.3
80°	4.9	7.3	7.3	7.3	9.8	26.8	51.2	46.4	46.4
82.5°	2.4	4.9	4.9	4.9	9.8	19.5	34.2	31.7	31.7
85°	2.4	2.4	2.4	7.3	9.8	14.6	22.0	22.0	22.0
87.5°	0.0	2.4	4.9	9.8	12.2	12.2	14.6	12.2	12.2
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)