

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: P799777

Luminaire Tested: **LD6C50D010 EU6509027 6LBMDDWWMH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799777  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C50D010 EU6509027 6LBMDDWWMH  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH WMH FINISH  
Light Source: -  
Ballast/Driver: -

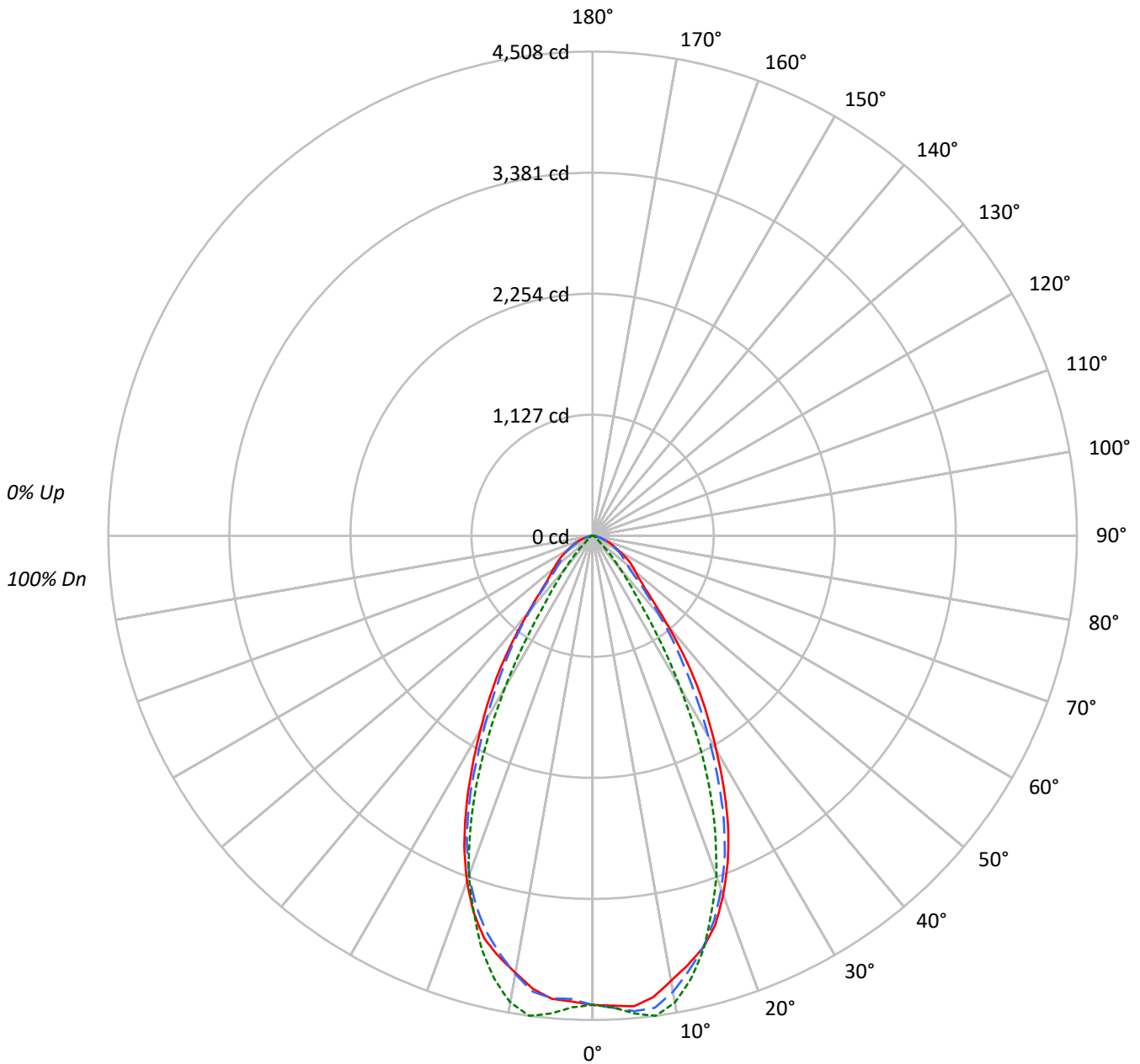
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4447.0 lumens  
Efficiency: N/A  
Efficacy: 76.1 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88  
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	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91																			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70																			
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64																			
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59																			
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55																			
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51																			
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48																			
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45																			

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

	0°	90°	180°
0°	239460	239460	239460
5°	241965	245636	238173
10°	234125	245631	230045
15°	225336	226222	220546
20°	207387	196501	199611
25°	180488	154957	168125
30°	145567	102953	132065
35°	112859	53083	99180
40°	77431	27509	66782
45°	53052	13777	46850
50°	44152	5876	40169
55°	39712	5094	35889
60°	31423	4868	29965
65°	25943	4320	25645
70°	21013	3911	21013
75°	15526	4236	16479
80°	9124	3504	9818
85°	6982	4214	6982



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	415.8	9.4
10°-20°	1091.3	24.5
20°-30°	1245.7	28.0
30°-40°	826.1	18.6
40°-50°	398.5	9.0
50°-60°	245.1	5.5
60°-70°	148.3	3.3
70°-80°	62.4	1.4
80°-90°	13.8	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°	2752.8	61.9
0°-40°	3579.0	80.5
0°-60°	4222.5	95.0
0°-90°	4447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4447.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4368	4368	4368	4368	4368	
5°	4397	4444	4464	4322	4328	413
15°	3970	3970	3986	3817	3886	1106
25°	2984	2884	2562	2711	2780	1353
35°	1686	1486	793	1386	1482	1043
45°	684	600	178	560	604	558
55°	416	338	53	338	376	365
65°	200	191	33	180	198	201
75°	73	73	20	69	78	78
85°	11	16	7	11	11	14
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°	4368.1	4368.1	4368.1	4368.1	4368.1	4368.1	4368.1	4368.1	4368.1
2.5°	4379.2	4385.9	4399.2	4401.5	4394.8	4352.6	4317.0	4330.4	4341.5
5°	4397.0	4410.3	4443.7	4474.8	4463.7	4392.6	4321.5	4319.2	4328.1
7.5°	4332.6	4363.7	4432.6	4510.3	4508.1	4385.9	4281.5	4254.8	4254.8
10°	4205.9	4234.8	4310.4	4414.8	4412.6	4259.3	4143.7	4130.4	4132.6
12.5°	4092.6	4106.0	4143.7	4225.9	4225.9	4074.8	3986.0	3999.3	4017.1
15°	3970.4	3979.3	3970.4	3997.1	3986.0	3861.5	3817.1	3859.3	3886.0
17.5°	3797.1	3801.6	3754.9	3719.4	3677.1	3599.4	3610.5	3672.7	3679.4
20°	3554.9	3583.8	3499.4	3408.3	3368.3	3295.0	3357.2	3426.1	3421.6
22.5°	3288.3	3321.6	3212.8	3061.7	2979.5	2950.6	3061.7	3123.9	3121.7
25°	2983.9	3008.4	2883.9	2672.9	2561.8	2557.3	2710.6	2775.1	2779.5
27.5°	2641.8	2650.6	2510.7	2235.2	2097.4	2130.7	2324.0	2412.9	2424.0
30°	2299.6	2295.2	2150.7	1808.6	1626.4	1717.5	1977.4	2075.2	2086.3
32.5°	1986.3	1973.0	1808.6	1399.8	1182.0	1317.5	1659.7	1761.9	1779.7
35°	1686.4	1664.2	1486.4	1035.4	793.2	995.4	1386.4	1475.3	1482.0
37.5°	1373.1	1362.0	1222.0	775.4	553.2	755.4	1130.9	1195.3	1188.7
40°	1082.0	1082.0	966.5	575.5	384.4	562.1	895.4	953.2	933.2
42.5°	848.7	859.9	762.1	424.4	273.3	417.7	708.8	762.1	739.9
45°	684.3	684.3	599.9	315.5	177.7	311.1	559.9	608.8	604.3
47.5°	579.9	571.0	486.6	231.1	97.8	233.3	471.0	531.0	528.8
50°	517.7	504.4	417.7	182.2	68.9	193.3	413.3	468.8	471.0
52.5°	468.8	448.8	375.5	162.2	60.0	168.9	375.5	419.9	419.9
55°	415.5	404.4	337.7	144.4	53.3	151.1	337.7	377.7	375.5
57.5°	351.0	348.8	302.2	131.1	48.9	133.3	302.2	326.6	317.7
60°	286.6	295.5	262.2	117.8	44.4	120.0	257.7	277.7	273.3
62.5°	240.0	251.1	228.8	104.4	37.8	106.6	217.7	237.7	233.3
65°	200.0	208.9	191.1	88.9	33.3	88.9	180.0	197.7	197.7
67.5°	164.4	171.1	157.8	73.3	28.9	73.3	146.6	162.2	164.4
70°	131.1	135.5	124.4	57.8	24.4	60.0	115.5	131.1	131.1
72.5°	102.2	104.4	97.8	46.7	22.2	46.7	88.9	102.2	102.2
75°	73.3	77.8	73.3	35.5	20.0	35.5	68.9	75.5	77.8
77.5°	42.2	53.3	53.3	28.9	15.6	26.7	48.9	51.1	51.1
80°	28.9	33.3	37.8	20.0	11.1	20.0	31.1	33.3	31.1
82.5°	20.0	22.2	22.2	13.3	8.9	13.3	20.0	22.2	20.0
85°	11.1	15.6	15.6	11.1	6.7	8.9	11.1	13.3	11.1
87.5°	6.7	8.9	11.1	8.9	6.7	6.7	6.7	6.7	4.4
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)