

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: P799798

Luminaire Tested: **LD6C50D010 EU6509035 6LBMDDWLI**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799798  
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 EU6509035 6LBMDDWLI  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

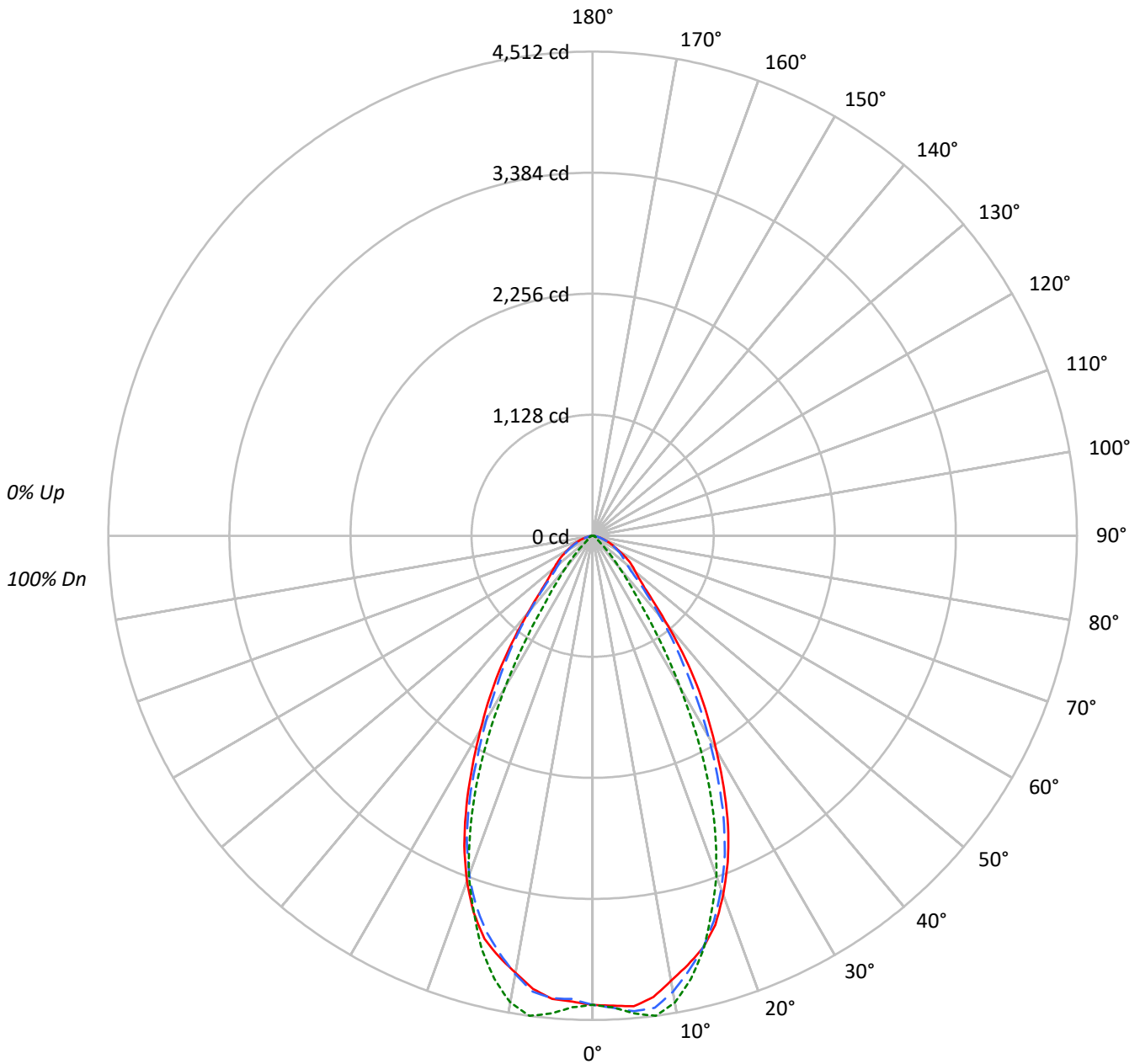
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4451.0 lumens  
Efficiency: N/A  
Efficacy: 76.2 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				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			
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°	239679	239679	239679
5°	242185	245856	238388
10°	234337	245848	230251
15°	225540	226426	220745
20°	207574	196676	199792
25°	180652	155096	168276
30°	145700	103041	132185
35°	112959	53130	99267
40°	77502	27530	66840
45°	53099	13792	46896
50°	44195	5876	40212
55°	39750	5104	35917
60°	31456	4879	29987
65°	25956	4333	25671
70°	21029	3927	21029
75°	15547	4236	16479
80°	9124	3504	9818
85°	6982	4214	6982



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	416.2	9.4
10°-20°	1092.3	24.5
20°-30°	1246.8	28.0
30°-40°	826.9	18.6
40°-50°	398.8	9.0
50°-60°	245.3	5.5
60°-70°	148.4	3.3
70°-80°	62.5	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°	2755.3	61.9
0°-40°	3582.2	80.5
0°-60°	4226.3	95.0
0°-90°	4451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4451.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4372	4372	4372	4372	4372	
5°	4401	4448	4468	4325	4332	414
15°	3974	3974	3990	3820	3890	1107
25°	2987	2886	2564	2713	2782	1354
35°	1688	1488	794	1388	1483	1044
45°	685	600	178	560	605	559
55°	416	338	53	338	376	366
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°	4372.1	4372.1	4372.1	4372.1	4372.1	4372.1	4372.1	4372.1	4372.1
2.5°	4383.2	4389.8	4403.2	4405.4	4398.7	4356.5	4320.9	4334.3	4345.4
5°	4401.0	4414.3	4447.7	4478.8	4467.7	4396.5	4325.4	4323.1	4332.0
7.5°	4336.5	4367.6	4436.5	4514.4	4512.2	4389.8	4285.3	4258.6	4258.6
10°	4209.7	4238.6	4314.2	4418.8	4416.5	4263.1	4147.4	4134.1	4136.3
12.5°	4096.3	4109.6	4147.4	4229.7	4229.7	4078.5	3989.6	4002.9	4020.7
15°	3974.0	3982.9	3974.0	4000.7	3989.6	3865.0	3820.5	3862.8	3889.5
17.5°	3800.5	3805.0	3758.3	3722.7	3680.4	3602.6	3613.7	3676.0	3682.7
20°	3558.1	3587.0	3502.5	3411.4	3371.3	3297.9	3360.2	3429.2	3424.7
22.5°	3291.3	3324.6	3215.7	3064.4	2982.2	2953.3	3064.4	3126.7	3124.5
25°	2986.6	3011.1	2886.5	2675.3	2564.1	2559.6	2713.1	2777.6	2782.0
27.5°	2644.1	2653.0	2512.9	2237.2	2099.3	2132.7	2326.1	2415.1	2426.2
30°	2301.7	2297.2	2152.7	1810.2	1627.8	1719.0	1979.2	2077.1	2088.2
32.5°	1988.1	1974.8	1810.2	1401.0	1183.1	1318.7	1661.2	1763.5	1781.3
35°	1687.9	1665.7	1487.7	1036.3	793.9	996.3	1387.7	1476.6	1483.3
37.5°	1374.3	1363.2	1223.1	776.1	553.7	756.1	1131.9	1196.4	1189.8
40°	1083.0	1083.0	967.4	576.0	384.7	562.6	896.2	954.0	934.0
42.5°	849.5	860.6	762.8	424.8	273.5	418.1	709.4	762.8	740.5
45°	684.9	684.9	600.4	315.8	177.9	311.3	560.4	609.3	604.9
47.5°	580.4	571.5	487.0	231.3	97.8	233.5	471.5	531.5	529.3
50°	518.2	504.8	418.1	182.4	68.9	193.5	413.6	469.2	471.5
52.5°	469.2	449.2	375.8	162.3	60.0	169.0	375.8	420.3	420.3
55°	415.9	404.7	338.0	144.5	53.4	151.2	338.0	378.1	375.8
57.5°	351.4	349.1	302.4	131.2	48.9	133.4	302.4	326.9	318.0
60°	286.9	295.8	262.4	117.9	44.5	120.1	258.0	278.0	273.5
62.5°	240.2	251.3	229.1	104.5	37.8	106.7	217.9	238.0	233.5
65°	200.1	209.0	191.2	89.0	33.4	89.0	180.1	197.9	197.9
67.5°	164.6	171.2	157.9	73.4	28.9	73.4	146.8	162.3	164.6
70°	131.2	135.7	124.5	57.8	24.5	60.0	115.6	131.2	131.2
72.5°	102.3	104.5	97.8	46.7	22.2	46.7	89.0	102.3	102.3
75°	73.4	77.8	73.4	35.6	20.0	35.6	68.9	75.6	77.8
77.5°	42.3	53.4	53.4	28.9	15.6	26.7	48.9	51.1	51.1
80°	28.9	33.4	37.8	20.0	11.1	20.0	31.1	33.4	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)