

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: P799791

Luminaire Tested: **LD6C50D010 EU6509030 6LBMDSWH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799791  
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 6LBMDSWH  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

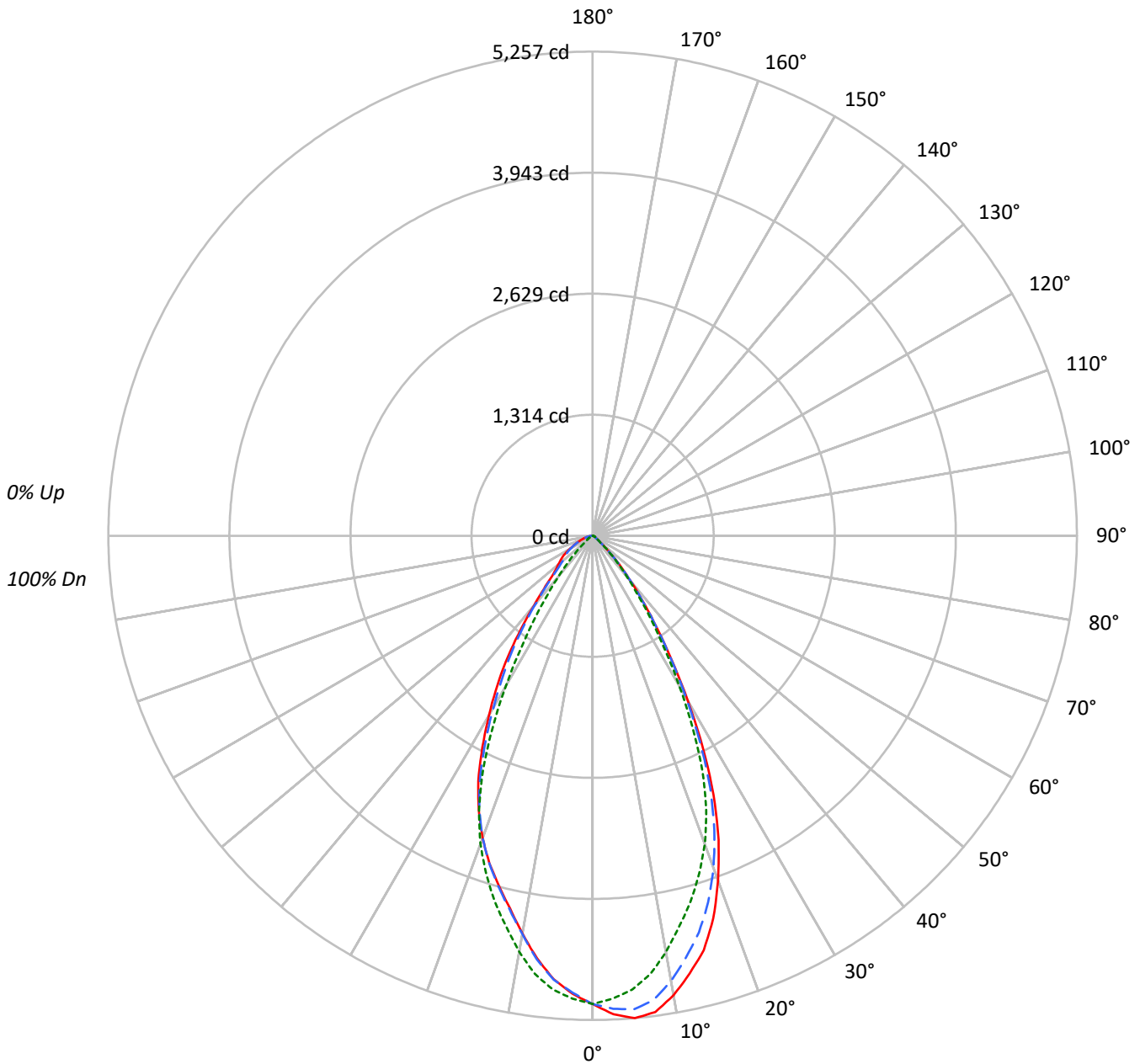
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4377.0 lumens  
Efficiency: N/A  
Efficacy: 74.9 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°	278695	278695	278695
5°	289296	272160	266002
10°	281897	255284	244050
15°	264377	233265	223179
20°	232099	207661	203694
25°	187716	170605	177633
30°	130501	118841	142161
35°	80435	72799	107291
40°	45514	40805	71255
45°	22103	21087	48633
50°	8418	8418	41338
55°	4616	5448	38154
60°	3366	4331	31258
65°	2841	3697	25606
70°	2468	3158	21093
75°	2330	3262	18110
80°	1389	2778	13165
85°	1384	5535	12391



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	465.4	10.6
10°-20°	1169.7	26.7
20°-30°	1316.8	30.1
30°-40°	815.4	18.6
40°-50°	324.7	7.4
50°-60°	147.8	3.4
60°-70°	85.0	1.9
70°-80°	40.4	0.9
80°-90°	11.8	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°	2952.0	67.4
0°-40°	3767.4	86.1
0°-60°	4239.9	96.9
0°-90°	4377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4377.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5084	5084	5084	5084	5084	
5°	5257	5161	4946	4838	4834	495
15°	4658	4457	4110	3943	3932	1289
25°	3103	3020	2820	2891	2937	1395
35°	1202	1195	1088	1516	1603	772
45°	285	285	272	592	627	242
55°	48	46	57	351	399	48
65°	22	20	28	195	197	21
75°	11	11	15	83	86	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°	5083.8	5083.8	5083.8	5083.8	5083.8	5083.8	5083.8	5083.8	5083.8
2.5°	5200.1	5151.8	5140.9	5099.2	5029.0	4989.5	4965.4	4947.9	4978.6
5°	5257.1	5204.5	5160.6	5075.1	4945.7	4873.3	4838.2	4809.7	4833.8
7.5°	5215.4	5140.9	5081.6	4963.2	4798.7	4686.9	4638.6	4605.7	4627.6
10°	5064.1	4974.2	4906.2	4765.8	4586.0	4452.2	4393.0	4362.3	4384.2
12.5°	4866.7	4792.1	4689.1	4535.5	4342.5	4202.2	4158.3	4134.2	4142.9
15°	4658.3	4570.6	4456.6	4303.1	4110.1	3969.7	3943.4	3928.0	3932.4
17.5°	4355.7	4270.2	4171.5	4022.3	3844.7	3730.6	3730.6	3719.7	3726.2
20°	3978.5	3932.4	3835.9	3710.9	3559.6	3456.5	3489.4	3478.4	3491.6
22.5°	3570.5	3535.4	3452.1	3349.0	3221.8	3140.7	3213.0	3210.8	3228.4
25°	3103.4	3077.1	3020.0	2932.3	2820.5	2770.0	2890.6	2890.6	2936.7
27.5°	2588.0	2561.7	2522.2	2447.6	2355.5	2340.1	2517.8	2539.7	2590.2
30°	2061.6	2044.1	2022.1	1954.1	1877.4	1905.9	2151.5	2188.8	2245.8
32.5°	1592.3	1581.3	1574.7	1513.3	1445.3	1539.6	1820.4	1868.6	1925.6
35°	1201.9	1177.7	1195.3	1149.2	1087.8	1206.3	1515.5	1557.2	1603.2
37.5°	886.1	868.5	883.9	851.0	796.1	925.5	1217.2	1243.5	1274.2
40°	636.0	620.7	633.8	614.1	570.2	690.9	954.0	982.6	995.7
42.5°	451.8	425.5	438.6	423.3	401.4	519.8	750.1	776.4	780.8
45°	285.1	276.3	285.1	276.3	272.0	386.0	592.2	616.3	627.3
47.5°	173.3	162.3	162.3	157.9	162.3	285.1	489.1	524.2	541.7
50°	98.7	94.3	92.1	89.9	98.7	223.7	423.3	462.8	484.7
52.5°	65.8	63.6	63.6	61.4	72.4	188.6	381.6	416.7	438.6
55°	48.3	46.1	46.1	46.1	57.0	162.3	350.9	379.4	399.2
57.5°	37.3	37.3	37.3	35.1	48.3	138.2	313.6	329.0	344.3
60°	30.7	28.5	28.5	28.5	39.5	118.4	269.8	276.3	285.1
62.5°	24.1	24.1	24.1	24.1	32.9	105.3	232.5	232.5	236.9
65°	21.9	19.7	19.7	19.7	28.5	92.1	195.2	193.0	197.4
67.5°	17.5	17.5	17.5	17.5	24.1	79.0	160.1	157.9	162.3
70°	15.4	15.4	15.4	15.4	19.7	65.8	129.4	127.2	131.6
72.5°	13.2	13.2	13.2	13.2	17.5	54.8	103.1	103.1	105.3
75°	11.0	11.0	11.0	11.0	15.4	41.7	83.3	83.3	85.5
77.5°	8.8	8.8	8.8	8.8	11.0	32.9	63.6	61.4	61.4
80°	4.4	6.6	6.6	6.6	8.8	24.1	46.1	41.7	41.7
82.5°	2.2	4.4	4.4	4.4	8.8	17.5	30.7	28.5	28.5
85°	2.2	2.2	2.2	6.6	8.8	13.2	19.7	19.7	19.7
87.5°	0.0	2.2	4.4	8.8	11.0	11.0	13.2	11.0	11.0
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)