

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: P799876

Luminaire Tested: **LD6C55D010 EU6559040 6LBMDSWLI**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799876  
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: LD6C55D010 EU6559040 6LBMDSWLI  
Description: 6 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

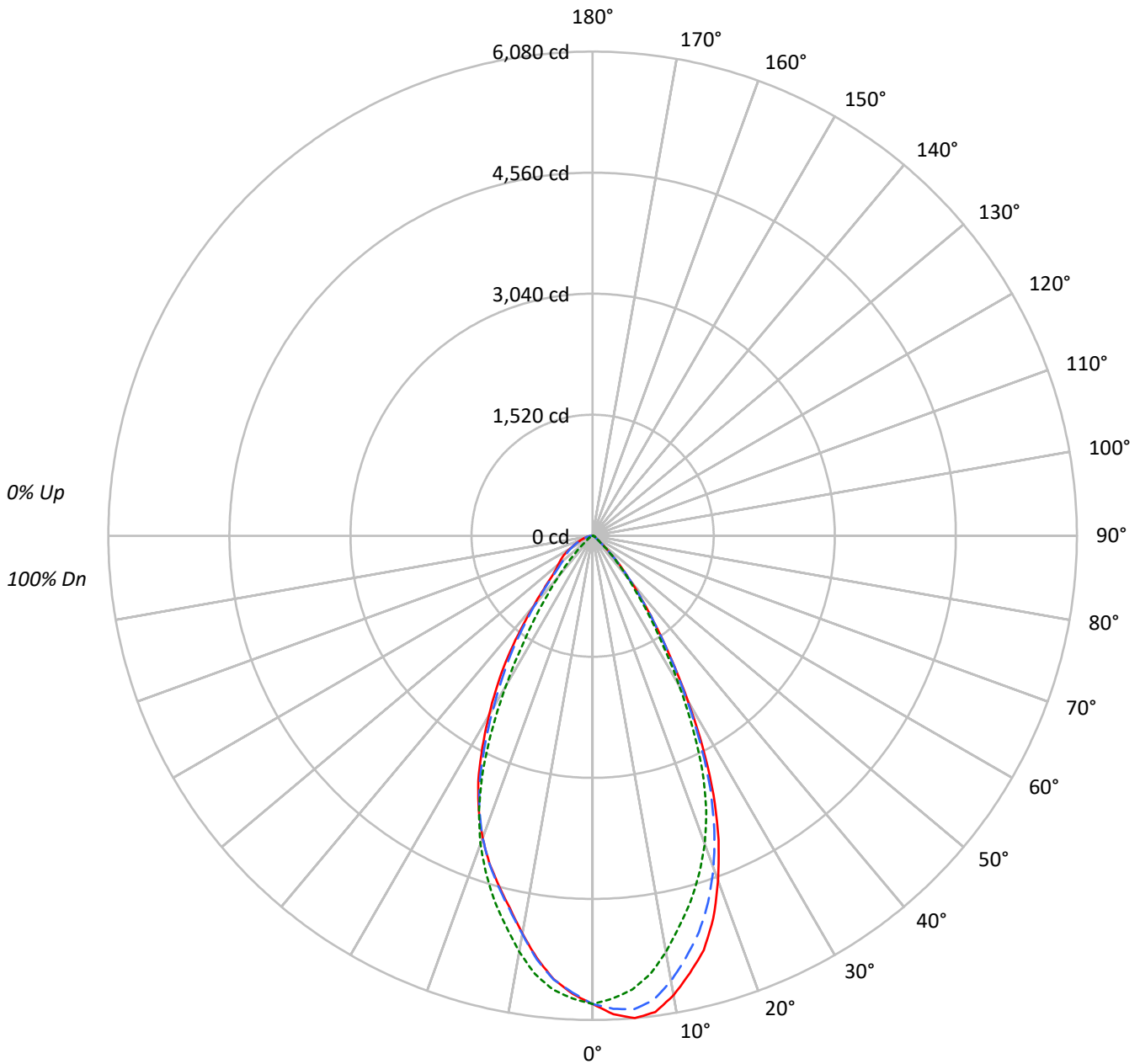
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5062.0 lumens  
Efficiency: N/A  
Efficacy: 79.2 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): 63.9  
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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92																			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78																			
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73																			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67																			
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63																			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59																			
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55																			
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52																			
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49																			

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

	0°	90°	180°
0°	322310	322310	322310
5°	334569	314753	307632
10°	326013	295235	282243
15°	305757	269769	258106
20°	268421	240156	235570
25°	217095	197304	205433
30°	150922	137439	164411
35°	93023	84196	124082
40°	52641	47196	82404
45°	25561	24382	56238
50°	9731	9731	47811
55°	5333	6298	44118
60°	3892	5011	36148
65°	3295	4281	29614
70°	2853	3654	24395
75°	2690	3770	20948
80°	1610	3189	15217
85°	1572	6353	14341



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	538.2	10.6
10°-20°	1352.8	26.7
20°-30°	1522.9	30.1
30°-40°	943.0	18.6
40°-50°	375.5	7.4
50°-60°	171.0	3.4
60°-70°	98.3	1.9
70°-80°	46.7	0.9
80°-90°	13.6	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°	3414.0	67.4
0°-40°	4356.9	86.1
0°-60°	4903.4	96.9
0°-90°	5062.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5062.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5879	5879	5879	5879	5879	
5°	6080	5968	5720	5595	5590	573
15°	5387	5154	4753	4560	4548	1490
25°	3589	3493	3262	3343	3396	1613
35°	1390	1382	1258	1753	1854	893
45°	330	330	314	685	725	279
55°	56	53	66	406	462	55
65°	25	23	33	226	228	25
75°	13	13	18	96	99	13
85°	2	2	10	23	23	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°	5879.4	5879.4	5879.4	5879.4	5879.4	5879.4	5879.4	5879.4	5879.4
2.5°	6013.9	5958.1	5945.4	5897.2	5816.0	5770.4	5742.5	5722.2	5757.7
5°	6079.8	6019.0	5968.2	5869.3	5719.7	5636.0	5595.4	5562.4	5590.3
7.5°	6031.6	5945.4	5876.9	5739.9	5549.7	5420.4	5364.6	5326.5	5351.9
10°	5856.6	5752.6	5674.0	5511.7	5303.7	5149.0	5080.5	5045.0	5070.3
12.5°	5628.3	5542.1	5422.9	5245.3	5022.1	4859.8	4809.1	4781.2	4791.3
15°	5387.4	5285.9	5154.0	4976.5	4753.3	4590.9	4560.5	4542.7	4547.8
17.5°	5037.4	4938.4	4824.3	4651.8	4446.4	4314.5	4314.5	4301.8	4309.4
20°	4601.1	4547.8	4436.2	4291.6	4116.6	3997.4	4035.5	4022.8	4038.0
22.5°	4129.3	4088.7	3992.3	3873.1	3726.0	3632.2	3715.9	3713.3	3733.6
25°	3589.1	3558.6	3492.7	3391.2	3261.9	3203.5	3343.0	3343.0	3396.3
27.5°	2993.0	2962.6	2916.9	2830.7	2724.1	2706.4	2911.8	2937.2	2995.5
30°	2384.2	2364.0	2338.6	2260.0	2171.2	2204.2	2488.2	2531.4	2597.3
32.5°	1841.4	1828.8	1821.2	1750.1	1671.5	1780.6	2105.2	2161.0	2227.0
35°	1390.0	1362.1	1382.4	1329.1	1258.1	1395.0	1752.7	1800.9	1854.1
37.5°	1024.7	1004.4	1022.2	984.1	920.7	1070.4	1407.7	1438.2	1473.7
40°	735.6	717.8	733.0	710.2	659.5	799.0	1103.3	1136.3	1151.5
42.5°	522.5	492.1	507.3	489.5	464.2	601.1	867.5	897.9	903.0
45°	329.7	319.6	329.7	319.6	314.5	446.4	684.8	712.7	725.4
47.5°	200.4	187.7	187.7	182.6	187.7	329.7	565.6	606.2	626.5
50°	114.1	109.1	106.5	104.0	114.1	258.7	489.5	535.2	560.6
52.5°	76.1	73.6	73.6	71.0	83.7	218.1	441.3	481.9	507.3
55°	55.8	53.3	53.3	53.3	65.9	187.7	405.8	438.8	461.6
57.5°	43.1	43.1	43.1	40.6	55.8	159.8	362.7	380.5	398.2
60°	35.5	33.0	33.0	33.0	45.7	137.0	312.0	319.6	329.7
62.5°	27.9	27.9	27.9	27.9	38.0	121.7	268.9	268.9	273.9
65°	25.4	22.8	22.8	22.8	33.0	106.5	225.7	223.2	228.3
67.5°	20.3	20.3	20.3	20.3	27.9	91.3	185.2	182.6	187.7
70°	17.8	17.8	17.8	17.8	22.8	76.1	149.6	147.1	152.2
72.5°	15.2	15.2	15.2	15.2	20.3	63.4	119.2	119.2	121.7
75°	12.7	12.7	12.7	12.7	17.8	48.2	96.4	96.4	98.9
77.5°	10.1	10.1	10.1	10.1	12.7	38.0	73.6	71.0	71.0
80°	5.1	7.6	7.6	7.6	10.1	27.9	53.3	48.2	48.2
82.5°	2.5	5.1	5.1	5.1	10.1	20.3	35.5	33.0	33.0
85°	2.5	2.5	2.5	7.6	10.1	15.2	22.8	22.8	22.8
87.5°	0.0	2.5	5.1	10.1	12.7	12.7	15.2	12.7	12.7
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)