

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: P799468

Luminaire Tested: **LD6C20D010 EU6209050 6LBMDSWLI**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799468  
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: LD6C20D010 EU6209050 6LBMDSWLI  
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

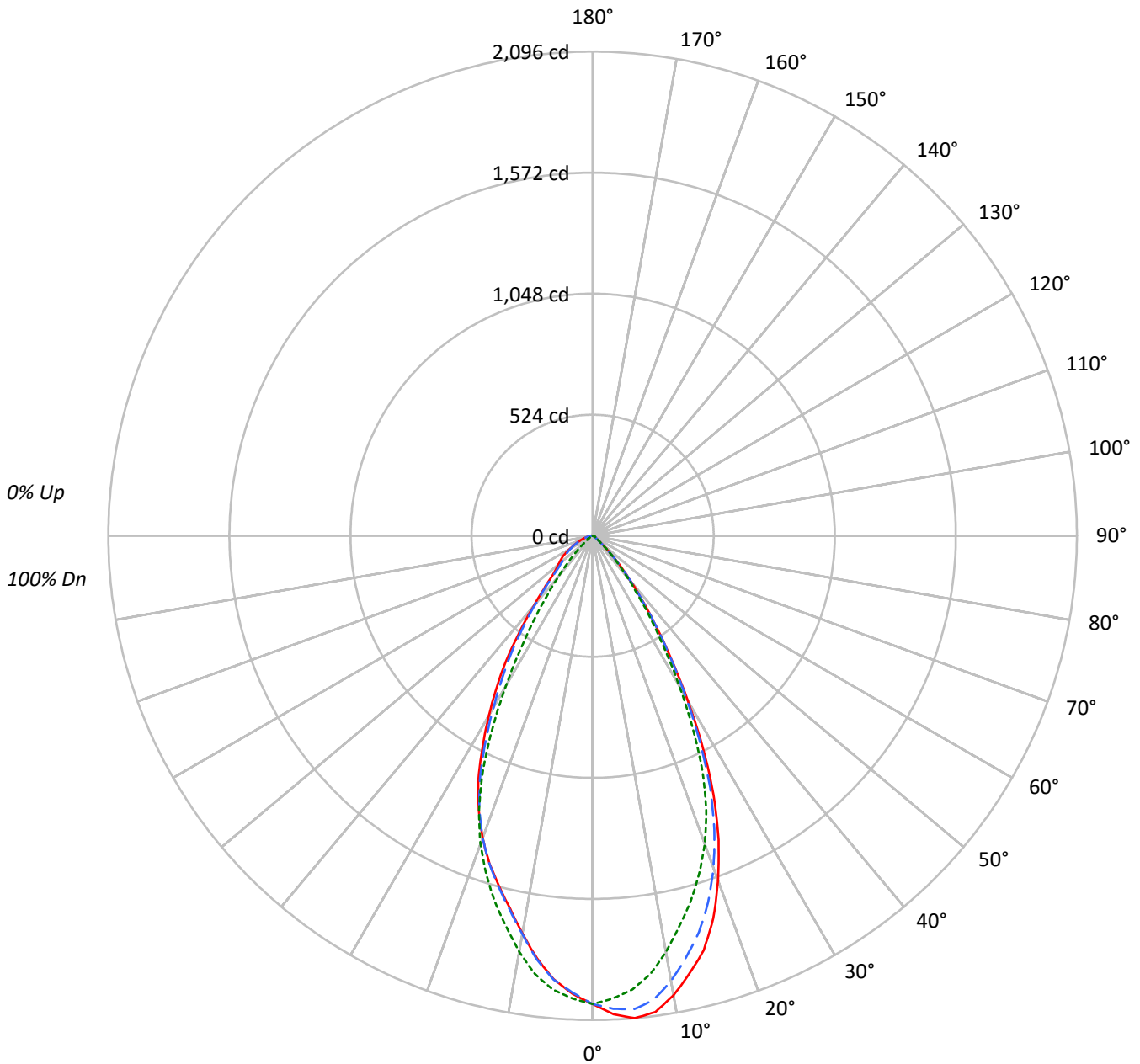
Lumens per Lamp: N/A  
Luminaire Lumens: 1745.0 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.8  
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°	111110	111110	111110
5°	115336	108502	106047
10°	112384	101774	97298
15°	105404	92997	88973
20°	92531	82788	81207
25°	74835	68012	70819
30°	52027	47381	56680
35°	32070	29025	42777
40°	18148	16266	28410
45°	8815	8404	19390
50°	3352	3352	16477
55°	1835	2170	15206
60°	1338	1721	12466
65°	1129	1479	10209
70°	978	1266	8415
75°	932	1292	7223
80°	537	1105	5241
85°	566	2201	4969



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.5	10.6
10°-20°	466.3	26.7
20°-30°	525.0	30.1
30°-40°	325.1	18.6
40°-50°	129.5	7.4
50°-60°	58.9	3.4
60°-70°	33.9	1.9
70°-80°	16.1	0.9
80°-90°	4.7	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°	1176.9	67.4
0°-40°	1502.0	86.1
0°-60°	1690.4	96.9
0°-90°	1745.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1745.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2027	2027	2027	2027	2027	
5°	2096	2057	1972	1929	1927	197
15°	1857	1777	1639	1572	1568	514
25°	1237	1204	1124	1152	1171	556
35°	479	476	434	604	639	308
45°	114	114	108	236	250	96
55°	19	18	23	140	159	19
65°	9	8	11	78	79	9
75°	4	4	6	33	34	4
85°	1	1	4	8	8	1
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°	2026.8	2026.8	2026.8	2026.8	2026.8	2026.8	2026.8	2026.8	2026.8
2.5°	2073.1	2053.9	2049.5	2032.9	2004.9	1989.2	1979.6	1972.6	1984.8
5°	2095.9	2074.9	2057.4	2023.3	1971.7	1942.9	1928.9	1917.5	1927.1
7.5°	2079.3	2049.5	2025.9	1978.7	1913.1	1868.5	1849.3	1836.2	1844.9
10°	2018.9	1983.1	1956.0	1900.0	1828.3	1775.0	1751.4	1739.1	1747.9
12.5°	1940.2	1910.5	1869.4	1808.2	1731.3	1675.3	1657.8	1648.2	1651.7
15°	1857.2	1822.2	1776.7	1715.5	1638.6	1582.6	1572.1	1566.0	1567.7
17.5°	1736.5	1702.4	1663.1	1603.6	1532.8	1487.3	1487.3	1482.9	1485.6
20°	1586.1	1567.7	1529.3	1479.4	1419.1	1378.0	1391.1	1386.8	1392.0
22.5°	1423.5	1409.5	1376.3	1335.2	1284.5	1252.1	1281.0	1280.1	1287.1
25°	1237.2	1226.7	1204.0	1169.0	1124.4	1104.3	1152.4	1152.4	1170.8
27.5°	1031.8	1021.3	1005.5	975.8	939.1	933.0	1003.8	1012.5	1032.6
30°	821.9	814.9	806.2	779.1	748.5	759.8	857.8	872.6	895.4
32.5°	634.8	630.4	627.8	603.3	576.2	613.8	725.7	745.0	767.7
35°	479.2	469.5	476.5	458.2	433.7	480.9	604.2	620.8	639.2
37.5°	353.2	346.3	352.4	339.3	317.4	369.0	485.3	495.8	508.0
40°	253.6	247.4	252.7	244.8	227.3	275.4	380.4	391.7	397.0
42.5°	180.1	169.6	174.9	168.8	160.0	207.2	299.0	309.5	311.3
45°	113.7	110.2	113.7	110.2	108.4	153.9	236.1	245.7	250.1
47.5°	69.1	64.7	64.7	63.0	64.7	113.7	195.0	209.0	216.0
50°	39.3	37.6	36.7	35.8	39.3	89.2	168.8	184.5	193.2
52.5°	26.2	25.4	25.4	24.5	28.9	75.2	152.1	166.1	174.9
55°	19.2	18.4	18.4	18.4	22.7	64.7	139.9	151.3	159.1
57.5°	14.9	14.9	14.9	14.0	19.2	55.1	125.0	131.2	137.3
60°	12.2	11.4	11.4	11.4	15.7	47.2	107.5	110.2	113.7
62.5°	9.6	9.6	9.6	9.6	13.1	42.0	92.7	92.7	94.4
65°	8.7	7.9	7.9	7.9	11.4	36.7	77.8	76.9	78.7
67.5°	7.0	7.0	7.0	7.0	9.6	31.5	63.8	63.0	64.7
70°	6.1	6.1	6.1	6.1	7.9	26.2	51.6	50.7	52.5
72.5°	5.2	5.2	5.2	5.2	7.0	21.9	41.1	41.1	42.0
75°	4.4	4.4	4.4	4.4	6.1	16.6	33.2	33.2	34.1
77.5°	3.5	3.5	3.5	3.5	4.4	13.1	25.4	24.5	24.5
80°	1.7	2.6	2.6	2.6	3.5	9.6	18.4	16.6	16.6
82.5°	0.9	1.7	1.7	1.7	3.5	7.0	12.2	11.4	11.4
85°	0.9	0.9	0.9	2.6	3.5	5.2	7.9	7.9	7.9
87.5°	0.0	0.9	1.7	3.5	4.4	4.4	5.2	4.4	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)