

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: P799451

Luminaire Tested: **LD6C20D010 EU6209040 6LBMDDWMW**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799451  
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: LD6C20D010 EU6209040 6LBMDDWMW  
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

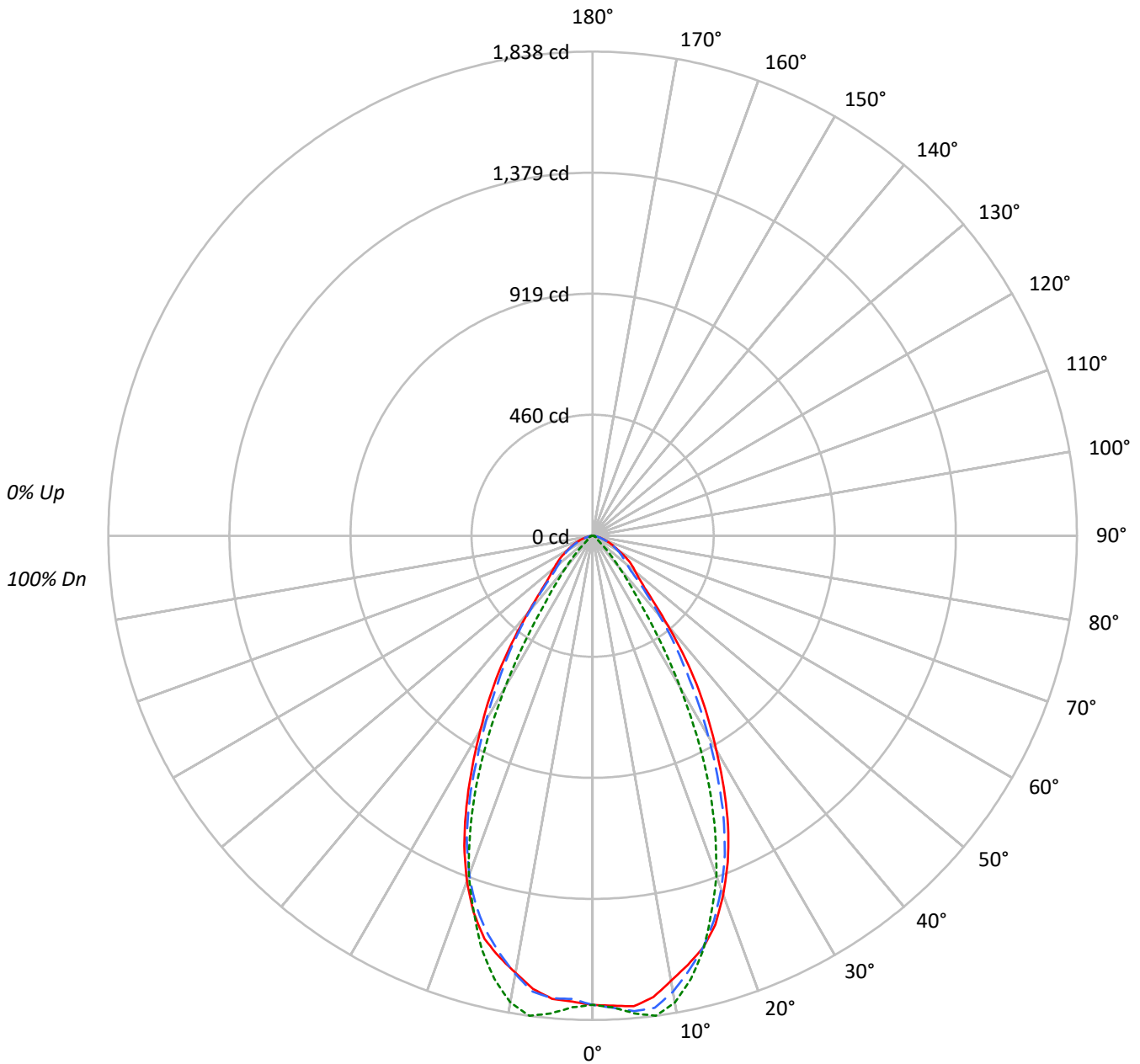
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1813.0 lumens  
Efficiency: N/A  
Efficacy: 83.2 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): 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	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91			91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83			83
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70			70
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64			64
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59			59
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55			55
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51			51
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48			48
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45			45

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

	0°	90°	180°
0°	97624	97624	97624
5°	98646	100143	97100
10°	95450	100143	93786
15°	91868	92225	89915
20°	84550	80110	81382
25°	73583	63173	68544
30°	59345	41975	53844
35°	46010	21643	40435
40°	31566	11214	27222
45°	21630	5621	19103
50°	18004	2397	16375
55°	16191	2074	14633
60°	12817	1984	12214
65°	10572	1764	10455
70°	8559	1603	8559
75°	6333	1737	6714
80°	3725	1421	4009
85°	2830	1698	2830



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.5	9.4
10°-20°	444.9	24.5
20°-30°	507.9	28.0
30°-40°	336.8	18.6
40°-50°	162.4	9.0
50°-60°	99.9	5.5
60°-70°	60.5	3.3
70°-80°	25.4	1.4
80°-90°	5.6	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°	1122.3	61.9
0°-40°	1459.1	80.5
0°-60°	1721.5	95.0
0°-90°	1813.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1813.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1781	1781	1781	1781	1781	
5°	1793	1812	1820	1762	1764	168
15°	1619	1619	1625	1556	1584	451
25°	1216	1176	1044	1105	1133	552
35°	688	606	323	565	604	425
45°	279	245	72	228	246	228
55°	169	138	22	138	153	149
65°	82	78	14	73	81	82
75°	30	30	8	28	32	32
85°	4	6	3	4	4	6
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°	1780.8	1780.8	1780.8	1780.8	1780.8	1780.8	1780.8	1780.8	1780.8
2.5°	1785.4	1788.1	1793.5	1794.4	1791.7	1774.5	1760.0	1765.4	1770.0
5°	1792.6	1798.1	1811.6	1824.3	1819.8	1790.8	1761.8	1760.9	1764.5
7.5°	1766.4	1779.0	1807.1	1838.8	1837.9	1788.1	1745.5	1734.6	1734.6
10°	1714.7	1726.5	1757.3	1799.9	1799.0	1736.5	1689.4	1683.9	1684.8
12.5°	1668.5	1674.0	1689.4	1722.9	1722.9	1661.3	1625.0	1630.5	1637.7
15°	1618.7	1622.3	1618.7	1629.6	1625.0	1574.3	1556.2	1573.4	1584.3
17.5°	1548.0	1549.9	1530.8	1516.3	1499.1	1467.4	1472.0	1497.3	1500.0
20°	1449.3	1461.1	1426.7	1389.5	1373.2	1343.3	1368.7	1396.8	1395.0
22.5°	1340.6	1354.2	1309.8	1248.2	1214.7	1202.9	1248.2	1273.6	1272.7
25°	1216.5	1226.5	1175.8	1089.7	1044.4	1042.6	1105.1	1131.4	1133.2
27.5°	1077.0	1080.6	1023.6	911.3	855.1	868.7	947.5	983.7	988.3
30°	937.5	935.7	876.8	737.3	663.1	700.2	806.2	846.0	850.6
32.5°	809.8	804.4	737.3	570.7	481.9	537.2	676.6	718.3	725.6
35°	687.5	678.5	606.0	422.1	323.4	405.8	565.2	601.5	604.2
37.5°	559.8	555.3	498.2	316.1	225.5	308.0	461.1	487.3	484.6
40°	441.1	441.1	394.0	234.6	156.7	229.2	365.0	388.6	380.4
42.5°	346.0	350.6	310.7	173.0	111.4	170.3	289.0	310.7	301.6
45°	279.0	279.0	244.6	128.6	72.5	126.8	228.3	248.2	246.4
47.5°	236.4	232.8	198.4	94.2	39.9	95.1	192.0	216.5	215.6
50°	211.1	205.6	170.3	74.3	28.1	78.8	168.5	191.1	192.0
52.5°	191.1	183.0	153.1	66.1	24.5	68.8	153.1	171.2	171.2
55°	169.4	164.9	137.7	58.9	21.7	61.6	137.7	154.0	153.1
57.5°	143.1	142.2	123.2	53.4	19.9	54.3	123.2	133.2	129.5
60°	116.9	120.5	106.9	48.0	18.1	48.9	105.1	113.2	111.4
62.5°	97.8	102.4	93.3	42.6	15.4	43.5	88.8	96.9	95.1
65°	81.5	85.1	77.9	36.2	13.6	36.2	73.4	80.6	80.6
67.5°	67.0	69.7	64.3	29.9	11.8	29.9	59.8	66.1	67.0
70°	53.4	55.3	50.7	23.6	10.0	24.5	47.1	53.4	53.4
72.5°	41.7	42.6	39.9	19.0	9.1	19.0	36.2	41.7	41.7
75°	29.9	31.7	29.9	14.5	8.2	14.5	28.1	30.8	31.7
77.5°	17.2	21.7	21.7	11.8	6.3	10.9	19.9	20.8	20.8
80°	11.8	13.6	15.4	8.2	4.5	8.2	12.7	13.6	12.7
82.5°	8.2	9.1	9.1	5.4	3.6	5.4	8.2	9.1	8.2
85°	4.5	6.3	6.3	4.5	2.7	3.6	4.5	5.4	4.5
87.5°	2.7	3.6	4.5	3.6	2.7	2.7	2.7	2.7	1.8
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)