

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: P799439

Luminaire Tested: **LD6C20D010 EU6209035 6LBMDDWMW**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799439  
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 EU6209035 6LBMDDWMW  
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

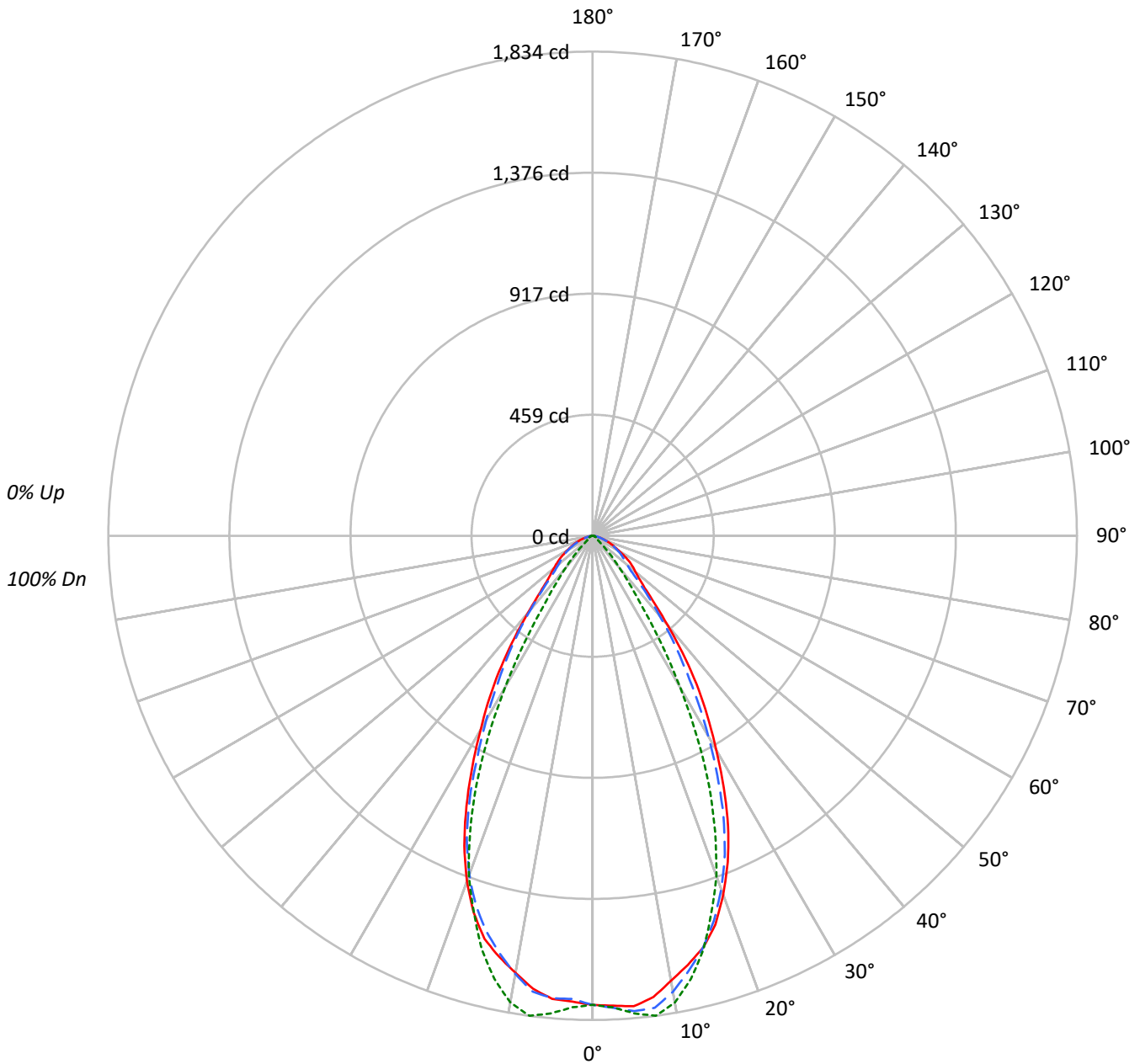
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1809.0 lumens  
Efficiency: N/A  
Efficacy: 83.0 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

TEST NUMBER: P799439

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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	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°	97410	97410	97410
5°	98431	99923	96885
10°	95239	99920	93580
15°	91663	92027	89717
20°	84363	79935	81201
25°	73420	63034	68393
30°	59218	41880	53723
35°	45909	21596	40341
40°	31502	11192	27165
45°	21584	5605	19056
50°	17961	2388	16341
55°	16152	2074	14594
60°	12784	1984	12192
65°	10546	1764	10429
70°	8543	1587	8543
75°	6312	1716	6693
80°	3694	1421	4009
85°	2830	1698	2830



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.1	9.4
10°-20°	443.9	24.5
20°-30°	506.7	28.0
30°-40°	336.1	18.6
40°-50°	162.1	9.0
50°-60°	99.7	5.5
60°-70°	60.3	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°	1119.8	61.9
0°-40°	1455.9	80.5
0°-60°	1717.7	95.0
0°-90°	1809.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1809.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1777	1777	1777	1777	1777	
5°	1789	1808	1816	1758	1761	168
15°	1615	1615	1622	1553	1581	450
25°	1214	1173	1042	1103	1131	550
35°	686	605	323	564	603	424
45°	278	244	72	228	246	227
55°	169	137	22	137	153	149
65°	81	78	14	73	80	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°	1776.9	1776.9	1776.9	1776.9	1776.9	1776.9	1776.9	1776.9	1776.9
2.5°	1781.4	1784.1	1789.6	1790.5	1787.8	1770.6	1756.1	1761.6	1766.1
5°	1788.7	1794.1	1807.6	1820.3	1815.8	1786.9	1757.9	1757.0	1760.6
7.5°	1762.5	1775.1	1803.1	1834.8	1833.9	1784.1	1741.7	1730.8	1730.8
10°	1710.9	1722.7	1753.4	1795.9	1795.0	1732.6	1685.6	1680.2	1681.1
12.5°	1664.8	1670.3	1685.6	1719.1	1719.1	1657.6	1621.5	1626.9	1634.1
15°	1615.1	1618.7	1615.1	1626.0	1621.5	1570.8	1552.8	1569.9	1580.8
17.5°	1544.6	1546.4	1527.5	1513.0	1495.8	1464.2	1468.7	1494.0	1496.7
20°	1446.1	1457.9	1423.5	1386.5	1370.2	1340.4	1365.7	1393.7	1391.9
22.5°	1337.7	1351.2	1306.9	1245.5	1212.0	1200.3	1245.5	1270.8	1269.9
25°	1213.8	1223.8	1173.2	1087.3	1042.1	1040.3	1102.7	1128.9	1130.7
27.5°	1074.6	1078.3	1021.3	909.2	853.2	866.8	945.4	981.6	986.1
30°	935.5	933.6	874.9	735.7	661.6	698.7	804.4	844.2	848.7
32.5°	808.0	802.6	735.7	569.4	480.8	536.0	675.2	716.7	724.0
35°	686.0	677.0	604.7	421.2	322.7	404.9	564.0	600.1	602.8
37.5°	558.6	554.0	497.1	315.4	225.1	307.3	460.0	486.3	483.5
40°	440.2	440.2	393.2	234.1	156.4	228.7	364.2	387.7	379.6
42.5°	345.3	349.8	310.0	172.6	111.2	169.9	288.3	310.0	301.0
45°	278.4	278.4	244.0	128.3	72.3	126.5	227.8	247.6	245.8
47.5°	235.9	232.3	197.9	94.0	39.8	94.9	191.6	216.0	215.1
50°	210.6	205.2	169.9	74.1	28.0	78.6	168.1	190.7	191.6
52.5°	190.7	182.6	152.7	66.0	24.4	68.7	152.7	170.8	170.8
55°	169.0	164.5	137.4	58.7	21.7	61.5	137.4	153.6	152.7
57.5°	142.8	141.9	122.9	53.3	19.9	54.2	122.9	132.9	129.2
60°	116.6	120.2	106.7	47.9	18.1	48.8	104.8	113.0	111.2
62.5°	97.6	102.1	93.1	42.5	15.4	43.4	88.6	96.7	94.9
65°	81.3	85.0	77.7	36.2	13.6	36.2	73.2	80.4	80.4
67.5°	66.9	69.6	64.2	29.8	11.7	29.8	59.7	66.0	66.9
70°	53.3	55.1	50.6	23.5	9.9	24.4	47.0	53.3	53.3
72.5°	41.6	42.5	39.8	19.0	9.0	19.0	36.2	41.6	41.6
75°	29.8	31.6	29.8	14.5	8.1	14.5	28.0	30.7	31.6
77.5°	17.2	21.7	21.7	11.7	6.3	10.8	19.9	20.8	20.8
80°	11.7	13.6	15.4	8.1	4.5	8.1	12.7	13.6	12.7
82.5°	8.1	9.0	9.0	5.4	3.6	5.4	8.1	9.0	8.1
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)