

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: P799461

Luminaire Tested: **LD6C20D010 EU6209050 6LBMDDWH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799461  
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 EU6209050 6LBMDDWH  
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

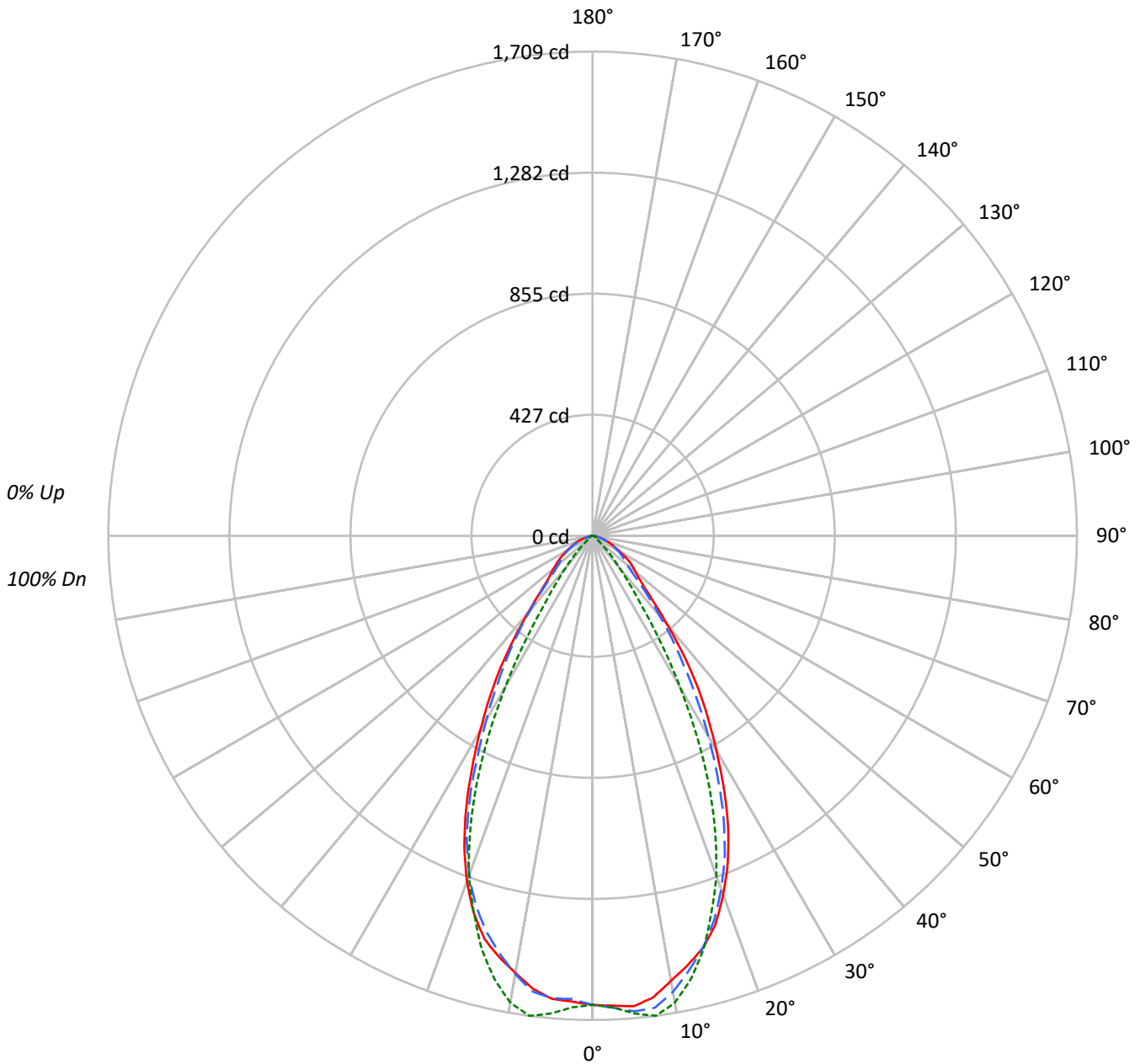
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1686.0 lumens  
Efficiency: N/A  
Efficacy: 77.3 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°	90788	90788	90788
5°	91734	93127	90298
10°	88765	93123	87217
15°	85432	85767	83616
20°	78629	74498	75677
25°	68429	58751	63742
30°	55192	39031	50071
35°	42791	20124	37604
40°	29355	10427	25319
45°	20111	5225	17762
50°	16741	2226	15232
55°	15053	1931	13610
60°	11918	1842	11359
65°	9832	1634	9729
70°	7966	1491	7966
75°	5888	1610	6248
80°	3473	1326	3725
85°	2642	1572	2642



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.6	9.4
10°-20°	413.8	24.5
20°-30°	472.3	28.0
30°-40°	313.2	18.6
40°-50°	151.1	9.0
50°-60°	92.9	5.5
60°-70°	56.2	3.3
70°-80°	23.7	1.4
80°-90°	5.2	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°	1043.7	61.9
0°-40°	1356.9	80.5
0°-60°	1600.9	95.0
0°-90°	1686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1686.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1656	1656	1656	1656	1656	
5°	1667	1685	1692	1638	1641	157
15°	1505	1505	1511	1447	1473	419
25°	1131	1093	971	1028	1054	513
35°	639	564	301	526	562	395
45°	259	227	67	212	229	212
55°	158	128	20	128	142	138
65°	76	72	13	68	75	76
75°	28	28	8	26	30	30
85°	4	6	2	4	4	5
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°	1656.1	1656.1	1656.1	1656.1	1656.1	1656.1	1656.1	1656.1	1656.1
2.5°	1660.3	1662.8	1667.9	1668.7	1666.2	1650.2	1636.7	1641.8	1646.0
5°	1667.0	1672.1	1684.7	1696.5	1692.3	1665.4	1638.4	1637.6	1640.9
7.5°	1642.6	1654.4	1680.5	1710.0	1709.2	1662.8	1623.2	1613.1	1613.1
10°	1594.6	1605.6	1634.2	1673.8	1672.9	1614.8	1571.0	1566.0	1566.8
12.5°	1551.6	1556.7	1571.0	1602.2	1602.2	1544.9	1511.2	1516.3	1523.0
15°	1505.3	1508.7	1505.3	1515.4	1511.2	1464.0	1447.2	1463.2	1473.3
17.5°	1439.6	1441.3	1423.6	1410.1	1394.1	1364.6	1368.8	1392.4	1395.0
20°	1347.8	1358.7	1326.7	1292.2	1277.0	1249.2	1272.8	1298.9	1297.2
22.5°	1246.7	1259.3	1218.1	1160.8	1129.6	1118.7	1160.8	1184.4	1183.5
25°	1131.3	1140.6	1093.4	1013.4	971.3	969.6	1027.7	1052.1	1053.8
27.5°	1001.6	1004.9	951.9	847.4	795.2	807.8	881.1	914.8	919.0
30°	871.9	870.2	815.4	685.7	616.6	651.2	749.7	786.8	791.0
32.5°	753.1	748.0	685.7	530.7	448.1	499.5	629.2	668.0	674.7
35°	639.4	630.9	563.5	392.5	300.7	377.4	525.6	559.3	561.9
37.5°	520.6	516.4	463.3	294.0	209.7	286.4	428.8	453.2	450.7
40°	410.2	410.2	366.4	218.2	145.7	213.1	339.5	361.4	353.8
42.5°	321.8	326.0	288.9	160.9	103.6	158.4	268.7	288.9	280.5
45°	259.4	259.4	227.4	119.6	67.4	117.9	212.3	230.8	229.1
47.5°	219.9	216.5	184.5	87.6	37.1	88.4	178.6	201.3	200.5
50°	196.3	191.2	158.4	69.1	26.1	73.3	156.7	177.7	178.6
52.5°	177.7	170.2	142.4	61.5	22.7	64.0	142.4	159.2	159.2
55°	157.5	153.3	128.0	54.8	20.2	57.3	128.0	143.2	142.4
57.5°	133.1	132.3	114.6	49.7	18.5	50.5	114.6	123.8	120.5
60°	108.7	112.0	99.4	44.6	16.8	45.5	97.7	105.3	103.6
62.5°	91.0	95.2	86.8	39.6	14.3	40.4	82.6	90.1	88.4
65°	75.8	79.2	72.4	33.7	12.6	33.7	68.2	75.0	75.0
67.5°	62.3	64.9	59.8	27.8	11.0	27.8	55.6	61.5	62.3
70°	49.7	51.4	47.2	21.9	9.3	22.7	43.8	49.7	49.7
72.5°	38.7	39.6	37.1	17.7	8.4	17.7	33.7	38.7	38.7
75°	27.8	29.5	27.8	13.5	7.6	13.5	26.1	28.6	29.5
77.5°	16.0	20.2	20.2	11.0	5.9	10.1	18.5	19.4	19.4
80°	11.0	12.6	14.3	7.6	4.2	7.6	11.8	12.6	11.8
82.5°	7.6	8.4	8.4	5.1	3.4	5.1	7.6	8.4	7.6
85°	4.2	5.9	5.9	4.2	2.5	3.4	4.2	5.1	4.2
87.5°	2.5	3.4	4.2	3.4	2.5	2.5	2.5	2.5	1.7
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)