

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: P799455

Luminaire Tested: **LD6C20D010 EU6209040 6LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799455
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 EU6209040 6LBMDSWH
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

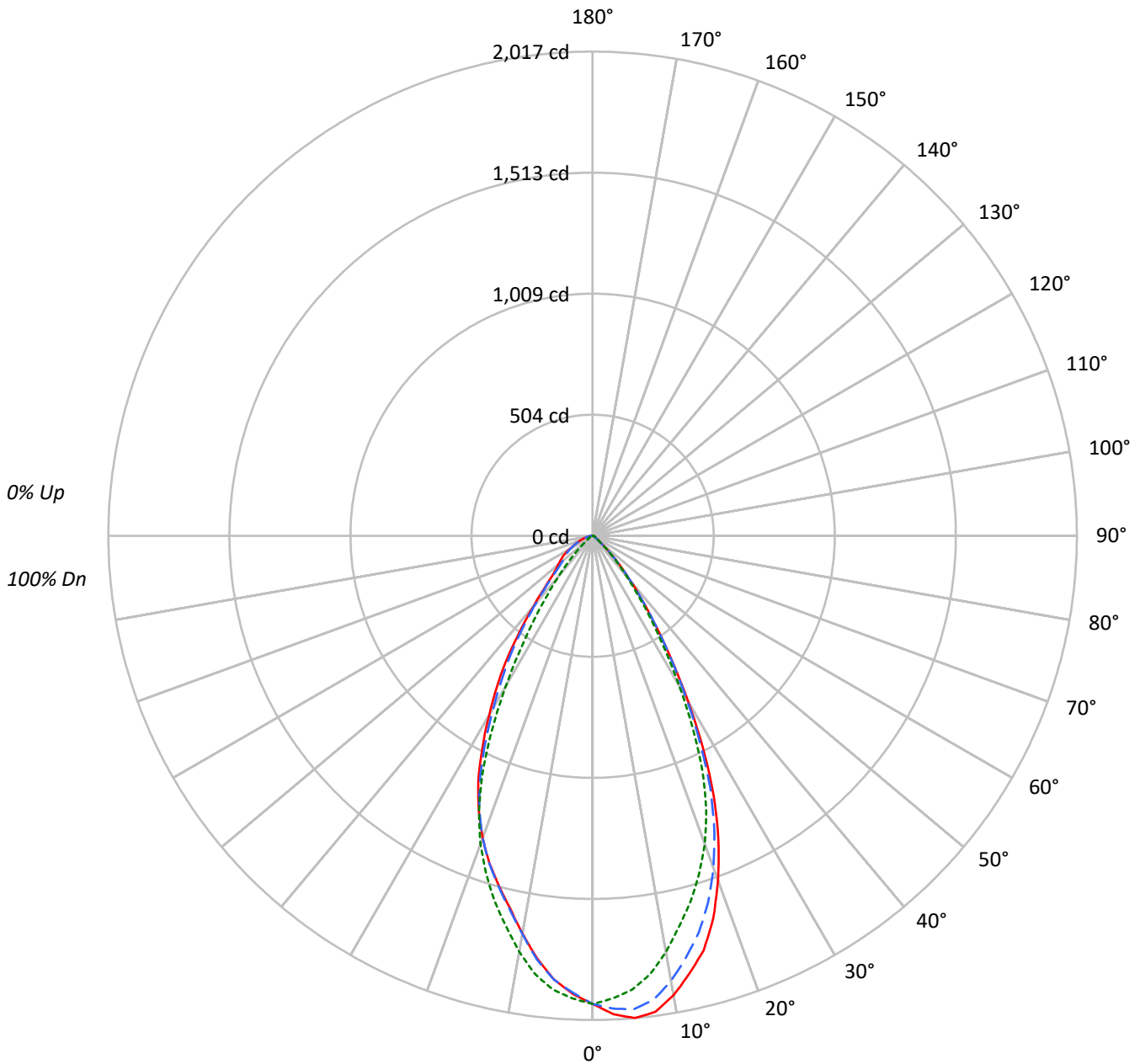
Lumens per Lamp: N/A
Luminaire Lumens: 1679.0 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
Input Voltage (V): NR
Input Current (A_{in}): 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°	106905	106905	106905
5°	110973	104397	102036
10°	108136	97927	93619
15°	101414	89478	85613
20°	89030	79655	78138
25°	72004	65441	68139
30°	50058	45589	54534
35°	30852	27927	41158
40°	17461	15651	27337
45°	8482	8086	18653
50°	3232	3232	15854
55°	1768	2093	14633
60°	1294	1656	11995
65°	1090	1414	9819
70°	946	1218	8094
75°	890	1250	6947
80°	537	1073	5051
85°	503	2139	4780



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.5	10.6
10°-20°	448.7	26.7
20°-30°	505.1	30.1
30°-40°	312.8	18.6
40°-50°	124.6	7.4
50°-60°	56.7	3.4
60°-70°	32.6	1.9
70°-80°	15.5	0.9
80°-90°	4.5	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°	1132.4	67.4
0°-40°	1445.1	86.1
0°-60°	1626.4	96.9
0°-90°	1679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1679.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1950	1950	1950	1950	1950	
5°	2017	1980	1897	1856	1854	190
15°	1787	1710	1577	1513	1508	494
25°	1190	1158	1082	1109	1126	535
35°	461	458	417	581	615	296
45°	109	109	104	227	241	93
55°	18	18	22	135	153	18
65°	8	8	11	75	76	8
75°	4	4	6	32	33	4
85°	1	1	3	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°	1950.1	1950.1	1950.1	1950.1	1950.1	1950.1	1950.1	1950.1	1950.1
2.5°	1994.7	1976.2	1972.0	1956.0	1929.1	1914.0	1904.7	1898.0	1909.8
5°	2016.6	1996.4	1979.6	1946.8	1897.1	1869.4	1855.9	1845.0	1854.2
7.5°	2000.6	1972.0	1949.3	1903.9	1840.8	1797.9	1779.4	1766.7	1775.1
10°	1942.6	1908.1	1882.0	1828.1	1759.2	1707.8	1685.1	1673.3	1681.8
12.5°	1866.8	1838.2	1798.7	1739.8	1665.8	1611.9	1595.1	1585.9	1589.2
15°	1786.9	1753.3	1709.5	1650.6	1576.6	1522.8	1512.7	1506.8	1508.5
17.5°	1670.8	1638.0	1600.2	1542.9	1474.8	1431.1	1431.1	1426.8	1429.4
20°	1526.1	1508.5	1471.4	1423.5	1365.4	1325.9	1338.5	1334.3	1339.4
22.5°	1369.6	1356.2	1324.2	1284.7	1235.9	1204.7	1232.5	1231.7	1238.4
25°	1190.4	1180.3	1158.5	1124.8	1081.9	1062.6	1108.8	1108.8	1126.5
27.5°	992.7	982.6	967.5	938.9	903.6	897.7	965.8	974.2	993.6
30°	790.8	784.1	775.7	749.6	720.2	731.1	825.3	839.6	861.5
32.5°	610.8	606.6	604.1	580.5	554.4	590.6	698.3	716.8	738.7
35°	461.0	451.8	458.5	440.8	417.3	462.7	581.3	597.3	615.0
37.5°	339.9	333.2	339.0	326.4	305.4	355.0	466.9	477.0	488.8
40°	244.0	238.1	243.1	235.6	218.7	265.0	366.0	376.9	382.0
42.5°	173.3	163.2	168.3	162.4	154.0	199.4	287.7	297.8	299.5
45°	109.4	106.0	109.4	106.0	104.3	148.1	227.2	236.4	240.6
47.5°	66.5	62.3	62.3	60.6	62.3	109.4	187.6	201.1	207.8
50°	37.9	36.2	35.3	34.5	37.9	85.8	162.4	177.5	185.9
52.5°	25.2	24.4	24.4	23.6	27.8	72.4	146.4	159.8	168.3
55°	18.5	17.7	17.7	17.7	21.9	62.3	134.6	145.5	153.1
57.5°	14.3	14.3	14.3	13.5	18.5	53.0	120.3	126.2	132.1
60°	11.8	10.9	10.9	10.9	15.1	45.4	103.5	106.0	109.4
62.5°	9.3	9.3	9.3	9.3	12.6	40.4	89.2	89.2	90.9
65°	8.4	7.6	7.6	7.6	10.9	35.3	74.9	74.0	75.7
67.5°	6.7	6.7	6.7	6.7	9.3	30.3	61.4	60.6	62.3
70°	5.9	5.9	5.9	5.9	7.6	25.2	49.6	48.8	50.5
72.5°	5.0	5.0	5.0	5.0	6.7	21.0	39.5	39.5	40.4
75°	4.2	4.2	4.2	4.2	5.9	16.0	32.0	32.0	32.8
77.5°	3.4	3.4	3.4	3.4	4.2	12.6	24.4	23.6	23.6
80°	1.7	2.5	2.5	2.5	3.4	9.3	17.7	16.0	16.0
82.5°	0.8	1.7	1.7	1.7	3.4	6.7	11.8	10.9	10.9
85°	0.8	0.8	0.8	2.5	3.4	5.0	7.6	7.6	7.6
87.5°	0.0	0.8	1.7	3.4	4.2	4.2	5.0	4.2	4.2
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)