

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: P799419

Luminaire Tested: **LD6C20D010 EU6209027 6LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799419
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 EU6209027 6LBMDSWH
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

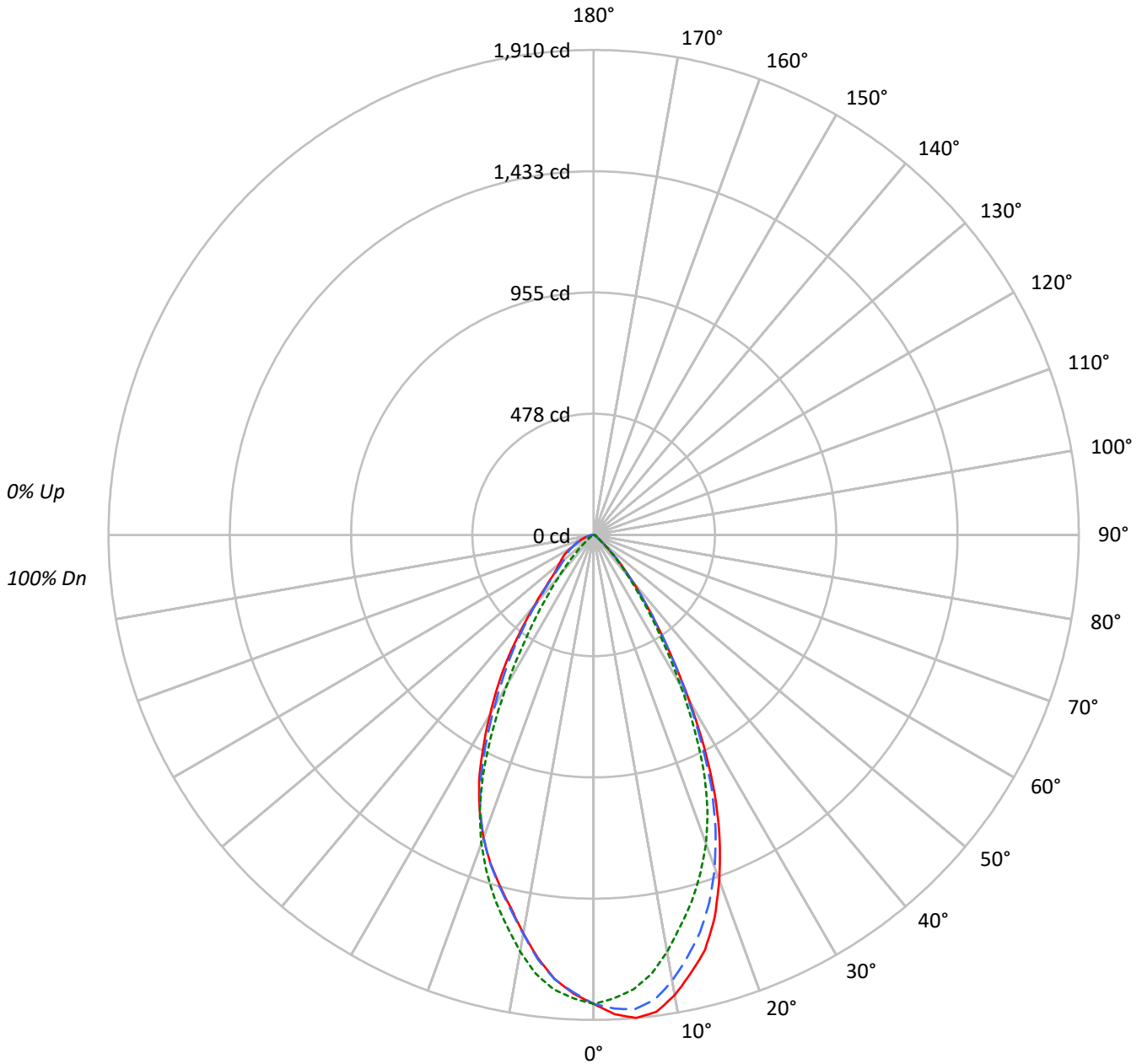
Lumens per Lamp: N/A
Luminaire Lumens: 1590.1 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				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	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63	63	63	63
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59	59	59	59
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55	55	55	55
9	74	64	58	54	73	63	57	54	62	57	53	61	57	53	61	56	53	52	52	52	52
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49	49	49	49

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	101242	101242	101242
5°	105090	98866	96626
10°	102403	92734	88653
15°	96039	84734	81073
20°	84311	75437	73996
25°	68187	61975	64528
30°	47406	43171	51641
35°	29219	26448	38976
40°	16531	14821	25884
45°	8032	7660	17669
50°	3062	3062	15019
55°	1673	1978	13859
60°	1228	1568	11359
65°	1038	1349	9301
70°	898	1154	7662
75°	847	1186	6587
80°	505	1010	4767
85°	503	2013	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.1	10.6
10°-20°	424.9	26.7
20°-30°	478.4	30.1
30°-40°	296.2	18.6
40°-50°	118.0	7.4
50°-60°	53.7	3.4
60°-70°	30.9	1.9
70°-80°	14.7	0.9
80°-90°	4.3	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°	1072.3	67.4
0°-40°	1368.5	86.1
0°-60°	1540.2	96.9
0°-90°	1590.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1590.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1847	1847	1847	1847	1847	
5°	1910	1875	1797	1758	1756	180
15°	1692	1619	1493	1432	1428	468
25°	1127	1097	1025	1050	1067	507
35°	437	434	395	550	582	281
45°	104	104	99	215	228	88
55°	18	17	21	128	145	17
65°	8	7	10	71	72	8
75°	4	4	6	30	31	4
85°	1	1	3	7	7	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°	1846.8	1846.8	1846.8	1846.8	1846.8	1846.8	1846.8	1846.8	1846.8
2.5°	1889.0	1871.5	1867.5	1852.3	1826.8	1812.5	1803.7	1797.4	1808.5
5°	1909.7	1890.6	1874.6	1843.6	1796.6	1770.3	1757.5	1747.2	1755.9
7.5°	1894.6	1867.5	1846.0	1802.9	1743.2	1702.6	1685.0	1673.1	1681.0
10°	1839.6	1806.9	1782.2	1731.2	1665.9	1617.3	1595.8	1584.6	1592.6
12.5°	1767.9	1740.8	1703.4	1647.6	1577.5	1526.5	1510.6	1501.8	1505.0
15°	1692.2	1660.3	1618.9	1563.1	1493.0	1442.0	1432.5	1426.9	1428.5
17.5°	1582.3	1551.2	1515.3	1461.2	1396.6	1355.2	1355.2	1351.2	1353.6
20°	1445.2	1428.5	1393.4	1348.0	1293.1	1255.6	1267.6	1263.6	1268.4
22.5°	1297.0	1284.3	1254.0	1216.6	1170.4	1140.9	1167.2	1166.4	1172.8
25°	1127.3	1117.8	1097.1	1065.2	1024.6	1006.2	1050.1	1050.1	1066.8
27.5°	940.1	930.6	916.2	889.1	855.7	850.1	914.6	922.6	940.9
30°	748.9	742.5	734.6	709.9	682.0	692.3	781.6	795.1	815.8
32.5°	578.4	574.4	572.0	549.7	525.0	559.3	661.3	678.8	699.5
35°	436.6	427.8	434.2	417.5	395.2	438.2	550.5	565.7	582.4
37.5°	321.9	315.5	321.1	309.1	289.2	336.2	442.2	451.7	462.9
40°	231.0	225.5	230.2	223.1	207.1	251.0	346.6	356.9	361.7
42.5°	164.1	154.6	159.3	153.8	145.8	188.8	272.5	282.0	283.6
45°	103.6	100.4	103.6	100.4	98.8	140.2	215.1	223.9	227.9
47.5°	62.9	59.0	59.0	57.4	59.0	103.6	177.7	190.4	196.8
50°	35.9	34.3	33.5	32.7	35.9	81.3	153.8	168.1	176.1
52.5°	23.9	23.1	23.1	22.3	26.3	68.5	138.6	151.4	159.3
55°	17.5	16.7	16.7	16.7	20.7	59.0	127.5	137.8	145.0
57.5°	13.5	13.5	13.5	12.7	17.5	50.2	113.9	119.5	125.1
60°	11.2	10.4	10.4	10.4	14.3	43.0	98.0	100.4	103.6
62.5°	8.8	8.8	8.8	8.8	12.0	38.2	84.5	84.5	86.0
65°	8.0	7.2	7.2	7.2	10.4	33.5	70.9	70.1	71.7
67.5°	6.4	6.4	6.4	6.4	8.8	28.7	58.2	57.4	59.0
70°	5.6	5.6	5.6	5.6	7.2	23.9	47.0	46.2	47.8
72.5°	4.8	4.8	4.8	4.8	6.4	19.9	37.4	37.4	38.2
75°	4.0	4.0	4.0	4.0	5.6	15.1	30.3	30.3	31.1
77.5°	3.2	3.2	3.2	3.2	4.0	12.0	23.1	22.3	22.3
80°	1.6	2.4	2.4	2.4	3.2	8.8	16.7	15.1	15.1
82.5°	0.8	1.6	1.6	1.6	3.2	6.4	11.2	10.4	10.4
85°	0.8	0.8	0.8	2.4	3.2	4.8	7.2	7.2	7.2
87.5°	0.0	0.8	1.6	3.2	4.0	4.0	4.8	4.0	4.0
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)