

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: P799421

Luminaire Tested: **LD6C20D010 EU6209027 6LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799421
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 6LBMDSWMW
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

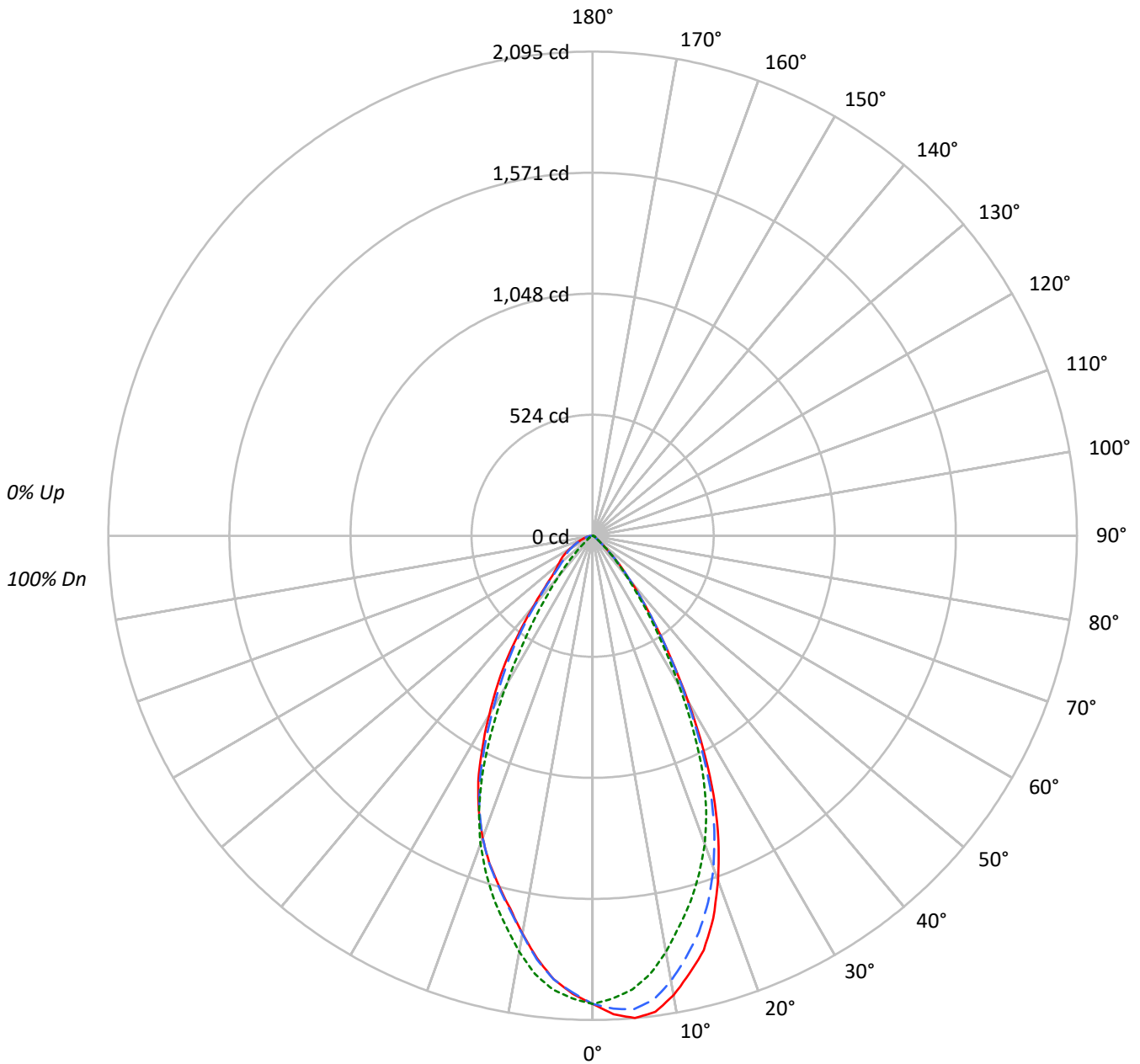
Lumens per Lamp: N/A
Luminaire Lumens: 1744.0 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P799421

CATALOG NUMBER: LD6C20D010 EU6209027 6LBMDSWMW

Luminous Intensity Polar Plot





TEST NUMBER: P799421

CATALOG NUMBER: LD6C20D010 EU6209027 6LBMDSWMW

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	111044	111044	111044
5°	115270	108441	105987
10°	112323	101718	97243
15°	105341	92940	88928
20°	92478	82741	81160
25°	74793	67976	70776
30°	51995	47349	56642
35°	32049	29004	42750
40°	18134	16259	28389
45°	8807	8404	19374
50°	3352	3352	16469
55°	1835	2170	15197
60°	1338	1721	12455
65°	1129	1479	10196
70°	978	1266	8399
75°	932	1292	7223
80°	537	1105	5241
85°	566	2201	4969



TEST NUMBER: P799421

CATALOG NUMBER: LD6C20D010 EU6209027 6LBMDSWMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.4	10.6
10°-20°	466.1	26.7
20°-30°	524.7	30.1
30°-40°	324.9	18.6
40°-50°	129.4	7.4
50°-60°	58.9	3.4
60°-70°	33.9	1.9
70°-80°	16.1	0.9
80°-90°	4.7	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°	1176.2	67.4
0°-40°	1501.1	86.1
0°-60°	1689.4	96.9
0°-90°	1744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1744.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2026	2026	2026	2026	2026	
5°	2095	2056	1971	1928	1926	197
15°	1856	1776	1638	1571	1567	514
25°	1236	1203	1124	1152	1170	556
35°	479	476	433	604	639	308
45°	114	114	108	236	250	96
55°	19	18	23	140	159	19
65°	9	8	11	78	79	9
75°	4	4	6	33	34	4
85°	1	1	4	8	8	1
90°	0	0	0	0	0	



TEST NUMBER: P799421

CATALOG NUMBER: LD6C20D010 EU6209027 6LBMSWMMW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2025.6	2025.6	2025.6	2025.6	2025.6	2025.6	2025.6	2025.6	2025.6
2.5°	2071.9	2052.7	2048.4	2031.8	2003.8	1988.1	1978.4	1971.5	1983.7
5°	2094.7	2073.7	2056.2	2022.1	1970.6	1941.7	1927.8	1916.4	1926.0
7.5°	2078.1	2048.4	2024.8	1977.6	1912.0	1867.5	1848.2	1835.1	1843.9
10°	2017.8	1981.9	1954.9	1898.9	1827.3	1774.0	1750.4	1738.1	1746.9
12.5°	1939.1	1909.4	1868.3	1807.2	1730.3	1674.3	1656.9	1647.2	1650.7
15°	1856.1	1821.1	1775.7	1714.5	1637.6	1581.7	1571.2	1565.1	1566.9
17.5°	1735.5	1701.4	1662.1	1602.7	1531.9	1486.5	1486.5	1482.1	1484.7
20°	1585.2	1566.9	1528.4	1478.6	1418.3	1377.2	1390.3	1386.0	1391.2
22.5°	1422.7	1408.7	1375.5	1334.4	1283.7	1251.4	1280.2	1279.3	1286.3
25°	1236.5	1226.0	1203.3	1168.4	1123.8	1103.7	1151.8	1151.8	1170.1
27.5°	1031.2	1020.7	1005.0	975.2	938.5	932.4	1003.2	1011.9	1032.0
30°	821.4	814.4	805.7	778.6	748.0	759.4	857.3	872.1	894.8
32.5°	634.4	630.1	627.4	603.0	575.9	613.5	725.3	744.5	767.3
35°	478.9	469.3	476.3	457.9	433.4	480.6	603.8	620.4	638.8
37.5°	353.0	346.1	352.2	339.1	317.2	368.8	485.0	495.5	507.7
40°	253.4	247.3	252.5	244.7	227.2	275.3	380.1	391.5	396.7
42.5°	180.0	169.5	174.8	168.7	159.9	207.1	298.9	309.4	311.1
45°	113.6	110.1	113.6	110.1	108.4	153.8	235.9	245.6	249.9
47.5°	69.0	64.7	64.7	62.9	64.7	113.6	194.9	208.9	215.8
50°	39.3	37.6	36.7	35.8	39.3	89.1	168.7	184.4	193.1
52.5°	26.2	25.3	25.3	24.5	28.8	75.2	152.1	166.0	174.8
55°	19.2	18.4	18.4	18.4	22.7	64.7	139.8	151.2	159.0
57.5°	14.9	14.9	14.9	14.0	19.2	55.1	125.0	131.1	137.2
60°	12.2	11.4	11.4	11.4	15.7	47.2	107.5	110.1	113.6
62.5°	9.6	9.6	9.6	9.6	13.1	41.9	92.6	92.6	94.4
65°	8.7	7.9	7.9	7.9	11.4	36.7	77.8	76.9	78.6
67.5°	7.0	7.0	7.0	7.0	9.6	31.5	63.8	62.9	64.7
70°	6.1	6.1	6.1	6.1	7.9	26.2	51.6	50.7	52.4
72.5°	5.2	5.2	5.2	5.2	7.0	21.8	41.1	41.1	41.9
75°	4.4	4.4	4.4	4.4	6.1	16.6	33.2	33.2	34.1
77.5°	3.5	3.5	3.5	3.5	4.4	13.1	25.3	24.5	24.5
80°	1.7	2.6	2.6	2.6	3.5	9.6	18.4	16.6	16.6
82.5°	0.9	1.7	1.7	1.7	3.5	7.0	12.2	11.4	11.4
85°	0.9	0.9	0.9	2.6	3.5	5.2	7.9	7.9	7.9
87.5°	0.0	0.9	1.7	3.5	4.4	4.4	5.2	4.4	4.4
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)