

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: P799432

Luminaire Tested: **LD6C20D010 EU6209030 6LBMDSWLI**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799432  
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 EU6209030 6LBMDSWLI  
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

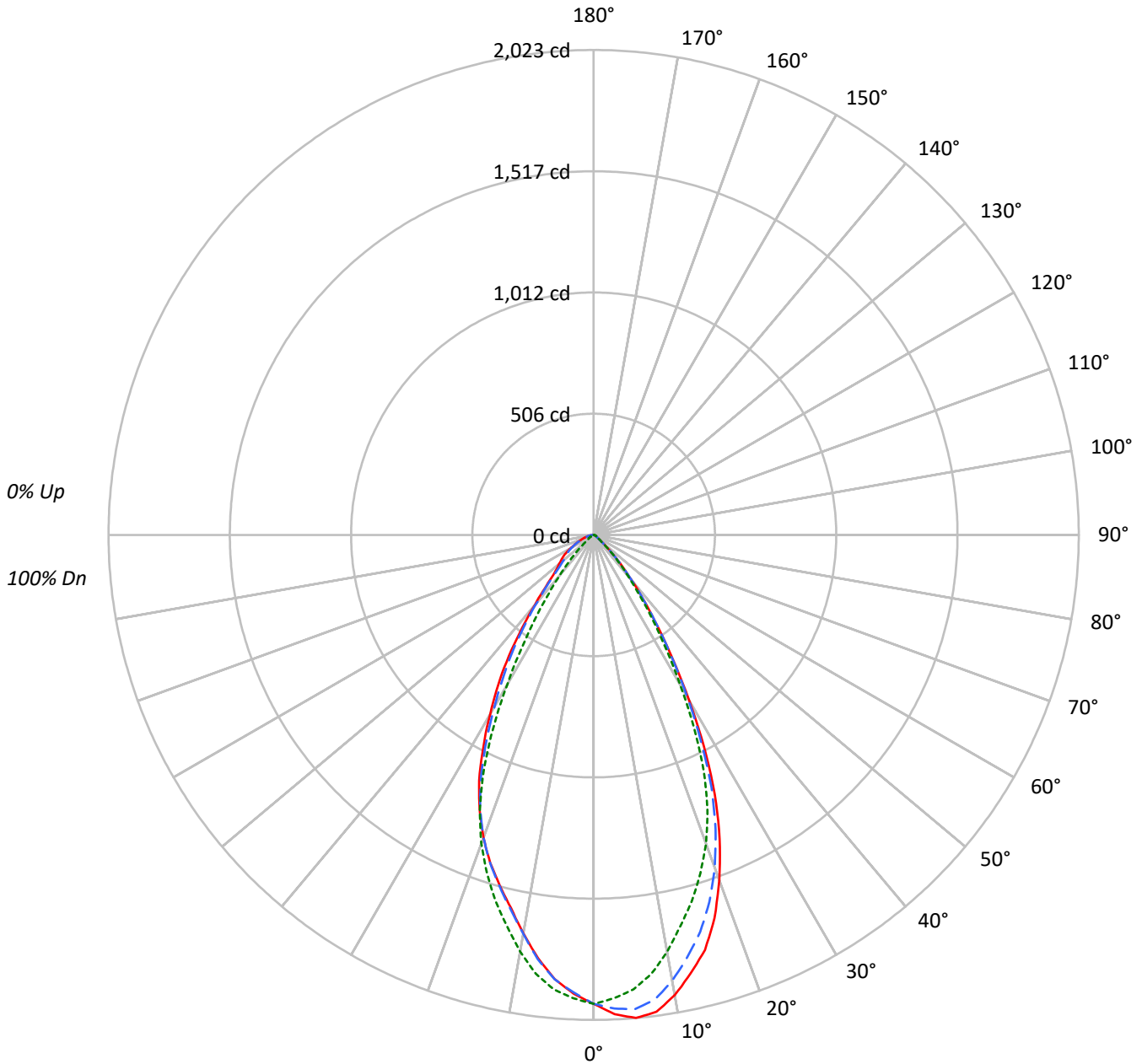
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1684.0 lumens  
Efficiency: N/A  
Efficacy: 77.2 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<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: P799432

CATALOG NUMBER: LD6C20D010 EU6209030 6LBMDSWLI

### Luminous Intensity Polar Plot





TEST NUMBER: P799432

CATALOG NUMBER: LD6C20D010 EU6209030 6LBMDSWLI

**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	57	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°	107223	107223	107223
5°	111303	104710	102344
10°	108459	98217	93897
15°	101715	89745	85863
20°	89299	79894	78366
25°	72222	65635	68345
30°	50210	45722	54698
35°	30945	28007	41278
40°	17511	15701	27416
45°	8505	8109	18707
50°	3241	3241	15906
55°	1778	2093	14680
60°	1294	1667	12028
65°	1090	1427	9845
70°	946	1218	8110
75°	890	1250	6969
80°	537	1073	5051
85°	503	2139	4780



TEST NUMBER: P799432

CATALOG NUMBER: LD6C20D010 EU6209030 6LBMDSWLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.1	10.6
10°-20°	450.0	26.7
20°-30°	506.6	30.1
30°-40°	313.7	18.6
40°-50°	124.9	7.4
50°-60°	56.9	3.4
60°-70°	32.7	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°	1135.7	67.4
0°-40°	1449.4	86.1
0°-60°	1631.3	96.9
0°-90°	1684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1684.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1956	1956	1956	1956	1956	
5°	2023	1986	1903	1861	1860	190
15°	1792	1715	1581	1517	1513	496
25°	1194	1162	1085	1112	1130	537
35°	462	460	418	583	617	297
45°	110	110	105	228	241	93
55°	19	18	22	135	154	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	



TEST NUMBER: P799432

CATALOG NUMBER: LD6C20D010 EU6209030 6LBMDSWLI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1955.9	1955.9	1955.9	1955.9	1955.9	1955.9	1955.9	1955.9	1955.9
2.5°	2000.7	1982.1	1977.9	1961.9	1934.8	1919.7	1910.4	1903.6	1915.4
5°	2022.6	2002.4	1985.5	1952.6	1902.8	1874.9	1861.4	1850.5	1859.8
7.5°	2006.6	1977.9	1955.1	1909.5	1846.2	1803.2	1784.7	1772.0	1780.4
10°	1948.4	1913.8	1887.6	1833.6	1764.4	1712.9	1690.1	1678.3	1686.8
12.5°	1872.4	1843.7	1804.1	1745.0	1670.7	1616.7	1599.9	1590.6	1594.0
15°	1792.2	1758.5	1714.6	1655.5	1581.3	1527.3	1517.2	1511.3	1512.9
17.5°	1675.8	1642.9	1604.9	1547.5	1479.2	1435.3	1435.3	1431.1	1433.6
20°	1530.7	1512.9	1475.8	1427.7	1369.5	1329.8	1342.5	1338.3	1343.3
22.5°	1373.7	1360.2	1328.2	1288.5	1239.6	1208.3	1236.2	1235.3	1242.1
25°	1194.0	1183.9	1161.9	1128.2	1085.1	1065.7	1112.1	1112.1	1129.9
27.5°	995.7	985.6	970.4	941.7	906.2	900.3	968.7	977.1	996.5
30°	793.2	786.4	778.0	751.8	722.3	733.3	827.8	842.1	864.1
32.5°	612.6	608.4	605.9	582.2	556.1	592.4	700.4	718.9	740.9
35°	462.4	453.1	459.9	442.2	418.5	464.1	583.1	599.1	616.8
37.5°	340.9	334.1	340.1	327.4	306.3	356.1	468.3	478.4	490.3
40°	244.7	238.8	243.9	236.3	219.4	265.8	367.1	378.0	383.1
42.5°	173.8	163.7	168.8	162.9	154.4	200.0	288.6	298.7	300.4
45°	109.7	106.3	109.7	106.3	104.6	148.5	227.8	237.1	241.3
47.5°	66.7	62.4	62.4	60.8	62.4	109.7	188.2	201.7	208.4
50°	38.0	36.3	35.4	34.6	38.0	86.1	162.9	178.0	186.5
52.5°	25.3	24.5	24.5	23.6	27.8	72.6	146.8	160.3	168.8
55°	18.6	17.7	17.7	17.7	21.9	62.4	135.0	146.0	153.6
57.5°	14.3	14.3	14.3	13.5	18.6	53.2	120.7	126.6	132.5
60°	11.8	11.0	11.0	11.0	15.2	45.6	103.8	106.3	109.7
62.5°	9.3	9.3	9.3	9.3	12.7	40.5	89.4	89.4	91.1
65°	8.4	7.6	7.6	7.6	11.0	35.4	75.1	74.3	75.9
67.5°	6.8	6.8	6.8	6.8	9.3	30.4	61.6	60.8	62.4
70°	5.9	5.9	5.9	5.9	7.6	25.3	49.8	48.9	50.6
72.5°	5.1	5.1	5.1	5.1	6.8	21.1	39.7	39.7	40.5
75°	4.2	4.2	4.2	4.2	5.9	16.0	32.1	32.1	32.9
77.5°	3.4	3.4	3.4	3.4	4.2	12.7	24.5	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	6.8	11.8	11.0	11.0
85°	0.8	0.8	0.8	2.5	3.4	5.1	7.6	7.6	7.6
87.5°	0.0	0.8	1.7	3.4	4.2	4.2	5.1	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)