

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: P844110

Luminaire Tested: **LD6C20DE010B2750 EU6C20B27 6LBSQLI**

Issue Date: 5/7/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P844110  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209348)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C20DE010B2750 EU6C20B27 6LBSQLI  
Description:  
Light Source: -  
Ballast/Driver:

**Summary**

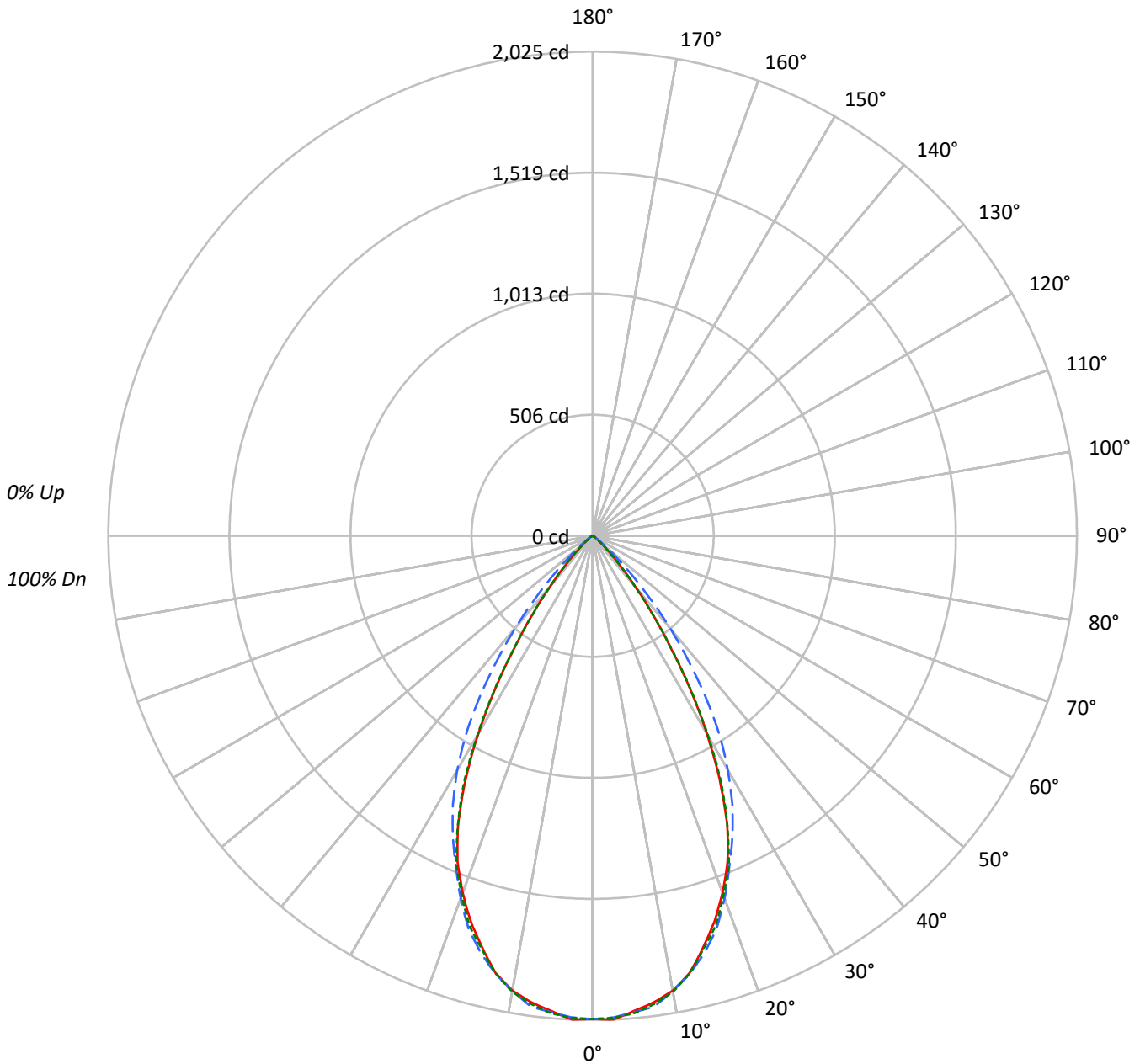
Lumens per Lamp: N/A  
Luminaire Lumens: 1899.5 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.8  
Input Voltage (V):  
Input Current (Ain): 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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																			
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75																			
5	92	83	78	73	90	82	77	73	81	76	72	79	75	72	77	74	71	69																			
6	87	78	72	68	86	77	72	67	76	71	67	74	70	67	73	69	66	65																			
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60																			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	56																			
9	75	65	59	55	74	64	59	55	64	58	55	63	58	54	62	57	54	53																			
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	87028	87028	87028
5°	86207	86427	86643
10°	84419	84419	84642
15°	79485	80506	79766
20°	72770	73938	73301
25°	63231	65711	63293
30°	47554	56229	48001
35°	29524	43316	29655
40°	15541	28204	15468
45°	6436	14108	6588
50°	2472	5292	2472
55°	1344	1629	1246
60°	887	766	887
65°	520	520	520
70°	315	478	315
75°	216	216	216
80°	322	322	322
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.2	10.0
10°-20°	503.4	26.5
20°-30°	617.8	32.5
30°-40°	426.5	22.5
40°-50°	133.3	7.0
50°-60°	20.9	1.1
60°-70°	6.0	0.3
70°-80°	2.0	0.1
80°-90°	0.5	0.0
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°	1310.4	69.0
0°-40°	1736.9	91.4
0°-60°	1891.1	99.6
0°-90°	1899.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1899.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2021	2021	2021	2021	2021	
5°	1995	2002	2000	2000	2005	189
15°	1783	1809	1806	1804	1790	499
25°	1331	1365	1383	1374	1332	596
35°	562	664	824	671	564	359
45°	106	145	232	143	108	95
55°	18	19	22	19	17	17
65°	5	6	5	6	5	6
75°	1	1	1	1	1	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3
2.5°	2025.2	1997.1	2015.0	2011.1	2021.3	2027.7	2021.3	2032.8	2025.2	2016.3	2018.8
5°	1994.6	1998.4	1997.1	1999.7	2002.2	2002.2	2015.0	2016.3	2018.8	1999.7	2004.7
7.5°	1967.8	1967.8	1974.3	1971.6	1980.6	1978.1	1979.4	1989.5	1990.8	1985.7	1981.9
10°	1930.9	1925.8	1919.5	1919.5	1930.9	1932.2	1942.3	1943.6	1951.2	1930.9	1933.5
12.5°	1873.6	1871.1	1860.9	1866.0	1874.9	1869.8	1886.3	1887.6	1885.0	1876.1	1881.2
15°	1783.2	1793.4	1790.8	1789.5	1809.9	1807.4	1806.1	1809.9	1811.2	1806.1	1802.3
17.5°	1692.7	1701.6	1702.9	1705.4	1709.2	1713.2	1718.2	1732.3	1727.1	1723.3	1736.1
20°	1588.2	1584.4	1594.7	1604.9	1608.7	1608.7	1616.3	1626.4	1618.8	1613.7	1615.0
22.5°	1475.0	1481.3	1476.2	1486.4	1491.5	1497.8	1505.4	1514.4	1508.0	1494.0	1510.6
25°	1331.0	1334.8	1351.4	1350.2	1357.8	1373.0	1384.4	1384.4	1384.4	1383.2	1383.2
27.5°	1150.2	1147.6	1168.1	1181.9	1201.0	1225.4	1240.6	1264.7	1268.6	1264.7	1255.8
30°	956.5	954.0	979.5	997.2	1031.7	1043.1	1085.2	1108.1	1132.3	1131.0	1124.7
32.5°	755.3	760.4	780.9	806.2	834.3	869.9	909.5	960.3	982.0	987.1	975.7
35°	561.7	569.3	588.5	610.0	644.5	684.0	738.7	787.2	824.1	824.1	815.1
37.5°	405.1	407.6	425.4	439.4	475.1	510.7	557.9	624.1	647.1	655.9	647.1
40°	276.5	276.5	286.6	301.8	331.1	361.7	405.1	454.7	487.8	501.8	486.5
42.5°	175.8	178.3	185.9	196.2	217.9	244.5	277.7	314.6	338.9	349.0	335.1
45°	105.7	108.2	114.6	122.3	136.3	152.8	175.8	202.5	222.8	231.7	225.4
47.5°	63.7	66.2	68.7	73.9	84.1	95.5	106.9	122.3	135.1	136.3	133.8
50°	36.9	36.9	39.4	43.3	48.3	54.8	61.1	70.0	73.9	79.0	73.9
52.5°	24.2	24.2	24.2	25.5	28.0	30.6	33.1	38.2	40.7	40.7	39.4
55°	17.9	17.9	17.9	17.9	19.1	19.1	19.1	20.4	21.7	21.7	21.7
57.5°	12.8	12.8	12.8	14.1	14.1	14.1	12.8	12.8	12.8	12.8	12.8
60°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	8.9	8.9	8.9
62.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
65°	5.1	5.1	5.1	6.3	6.3	6.3	6.3	5.1	5.1	5.1	5.1
67.5°	3.8	3.8	3.8	5.1	5.1	5.1	5.1	5.1	3.8	3.8	3.8
70°	2.5	2.5	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
72.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
77.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
82.5°	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3
2.5°	2026.4	2020.1	2020.1	2020.1	2017.5	2020.1	2023.9	2017.5
5°	2004.7	2007.3	1995.9	2004.7	2008.6	2002.2	2017.5	2004.7
7.5°	1985.7	1981.9	1964.0	1976.8	1984.4	1987.0	1985.7	1975.6
10°	1947.4	1938.5	1930.9	1930.9	1928.4	1927.1	1941.1	1936.0
12.5°	1878.7	1885.0	1873.6	1879.9	1874.9	1876.1	1877.4	1874.9
15°	1820.1	1813.7	1798.5	1808.7	1802.3	1796.0	1808.7	1789.5
17.5°	1728.4	1727.1	1718.2	1711.9	1714.4	1713.2	1719.5	1710.6
20°	1620.1	1622.6	1617.5	1615.0	1611.2	1602.3	1609.9	1599.8
22.5°	1502.9	1505.4	1510.6	1500.4	1501.6	1488.9	1500.4	1488.9
25°	1384.4	1383.2	1376.8	1371.8	1357.8	1343.7	1341.2	1332.3
27.5°	1254.6	1245.7	1230.5	1213.8	1192.2	1173.0	1171.8	1165.5
30°	1111.9	1092.9	1064.8	1038.1	1005.0	975.7	975.7	965.5
32.5°	961.7	918.3	880.1	847.1	803.7	787.2	770.6	761.7
35°	782.1	743.8	697.9	643.3	622.8	582.1	584.7	564.2
37.5°	612.6	565.5	522.3	477.6	442.0	422.8	412.7	402.5
40°	454.7	408.9	361.7	332.4	300.6	284.1	277.7	275.2
42.5°	310.7	272.6	242.0	217.9	201.3	183.4	178.3	175.8
45°	202.5	180.9	152.8	133.8	122.3	112.1	112.1	108.2
47.5°	121.0	106.9	93.0	80.3	72.7	66.2	63.7	62.4
50°	67.5	59.9	52.2	47.1	42.0	38.2	36.9	36.9
52.5°	36.9	33.1	30.6	26.8	24.2	24.2	24.2	23.0
55°	19.1	19.1	19.1	19.1	17.9	17.9	17.9	16.6
57.5°	12.8	12.8	14.1	14.1	14.1	12.8	12.8	12.8
60°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
62.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
65°	5.1	6.3	6.3	6.3	6.3	5.1	5.1	5.1
67.5°	3.8	5.1	5.1	5.1	3.8	3.8	3.8	3.8
70°	3.8	3.8	3.8	3.8	3.8	2.5	2.5	2.5
72.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
77.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
82.5°	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	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)