

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: P844178

Luminaire Tested: **LD6C20DE010B50 EU6C20B50 6LBSQLI**

Issue Date: 5/7/2024

Test Information

Test Method: LM-79-08
Report Number: P844178
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: LD6C20DE010B50 EU6C20B50 6LBSQLI
Description:
Light Source: -
Ballast/Driver:

Summary

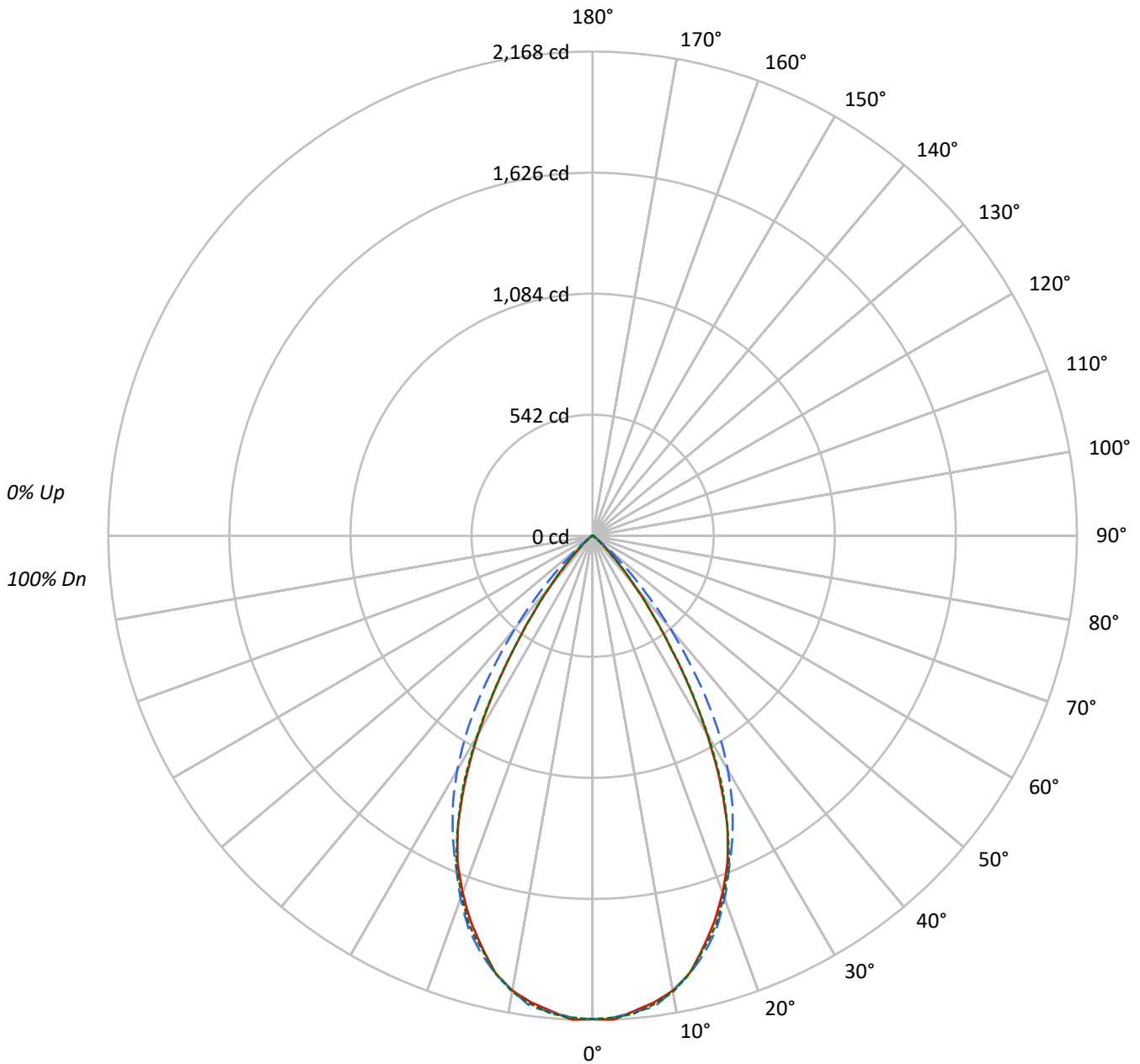
Lumens per Lamp: N/A
Luminaire Lumens: 2033.8 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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°	93185	93185	93185
5°	92305	92539	92776
10°	90391	90391	90631
15°	85102	86198	85405
20°	77920	79170	78479
25°	67706	70357	67768
30°	50920	60207	51392
35°	31616	46380	31752
40°	16631	30205	16564
45°	6893	15107	7057
50°	2653	5667	2653
55°	1434	1742	1336
60°	947	818	947
65°	550	550	550
70°	340	516	340
75°	233	233	233
80°	347	347	347
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.6	10.0
10°-20°	539.0	26.5
20°-30°	661.5	32.5
30°-40°	456.6	22.5
40°-50°	142.8	7.0
50°-60°	22.3	1.1
60°-70°	6.4	0.3
70°-80°	2.1	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°	1403.1	69.0
0°-40°	1859.7	91.4
0°-60°	2024.8	99.6
0°-90°	2033.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2033.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2164	2164	2164	2164	2164	
5°	2136	2144	2141	2142	2147	202
15°	1909	1937	1934	1931	1916	534
25°	1425	1462	1481	1471	1426	639
35°	602	711	882	718	604	384
45°	113	155	248	153	116	101
55°	19	20	23	20	18	19
65°	5	7	5	7	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°	2164.3	2164.3	2164.3	2164.3	2164.3	2164.3	2164.3	2164.3	2164.3	2164.3	2164.3
2.5°	2168.4	2138.4	2157.5	2153.3	2164.3	2171.1	2164.3	2176.5	2168.4	2158.8	2161.6
5°	2135.7	2139.8	2138.4	2141.1	2143.8	2143.8	2157.5	2158.8	2161.6	2141.1	2146.6
7.5°	2107.0	2107.0	2113.9	2111.0	2120.7	2117.9	2119.3	2130.2	2131.6	2126.1	2122.0
10°	2067.5	2062.0	2055.2	2055.2	2067.5	2068.7	2079.7	2081.1	2089.2	2067.5	2070.2
12.5°	2006.1	2003.4	1992.5	1997.9	2007.5	2002.0	2019.7	2021.0	2018.4	2008.9	2014.3
15°	1909.2	1920.2	1917.4	1916.0	1937.9	1935.2	1933.8	1937.9	1939.2	1933.8	1929.8
17.5°	1812.5	1822.0	1823.4	1826.0	1830.1	1834.3	1839.8	1854.8	1849.3	1845.1	1858.8
20°	1700.6	1696.4	1707.4	1718.3	1722.4	1722.4	1730.6	1741.5	1733.4	1727.9	1729.2
22.5°	1579.3	1586.0	1580.6	1591.4	1597.0	1603.8	1611.9	1621.6	1614.7	1599.7	1617.4
25°	1425.2	1429.2	1446.9	1445.6	1453.7	1470.1	1482.4	1482.4	1482.4	1481.0	1481.0
27.5°	1231.5	1228.8	1250.5	1265.6	1286.0	1312.0	1328.3	1354.2	1358.3	1354.2	1344.7
30°	1024.2	1021.5	1048.6	1067.8	1104.7	1117.0	1161.9	1186.5	1212.4	1211.0	1204.2
32.5°	808.7	814.2	836.1	863.2	893.3	931.5	973.8	1028.2	1051.5	1056.9	1044.6
35°	601.5	609.6	630.0	653.2	690.1	732.3	790.9	842.8	882.4	882.4	872.8
37.5°	433.6	436.4	455.5	470.5	508.6	546.8	597.4	668.2	692.8	702.3	692.8
40°	295.9	295.9	306.8	323.2	354.5	387.3	433.6	486.8	522.3	537.4	521.0
42.5°	188.3	190.9	199.0	210.0	233.2	261.9	297.3	336.9	362.8	373.7	358.7
45°	113.2	115.9	122.8	130.9	146.0	163.7	188.3	216.8	238.7	248.1	241.4
47.5°	68.2	70.9	73.6	79.1	90.0	102.3	114.5	130.9	144.6	146.0	143.2
50°	39.6	39.6	42.3	46.3	51.8	58.7	65.5	75.0	79.1	84.6	79.1
52.5°	25.9	25.9	25.9	27.3	29.9	32.8	35.5	40.9	43.7	43.7	42.3
55°	19.1	19.1	19.1	19.1	20.4	20.4	20.4	21.8	23.2	23.2	23.2
57.5°	13.6	13.6	13.6	15.0	15.0	15.0	13.6	13.6	13.6	13.6	13.6
60°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	9.5	9.5	9.5
62.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
65°	5.4	5.4	5.4	6.8	6.8	6.8	6.8	5.4	5.4	5.4	5.4
67.5°	4.1	4.1	4.1	5.4	5.4	5.4	5.4	5.4	4.1	4.1	4.1
70°	2.7	2.7	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
72.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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°	2164.3	2164.3	2164.3	2164.3	2164.3	2164.3	2164.3	2164.3
2.5°	2169.7	2163.0	2163.0	2163.0	2160.2	2163.0	2167.0	2160.2
5°	2146.6	2149.2	2137.1	2146.6	2150.6	2143.8	2160.2	2146.6
7.5°	2126.1	2122.0	2102.9	2116.5	2124.7	2127.4	2126.1	2115.3
10°	2085.1	2075.6	2067.5	2067.5	2064.7	2063.3	2078.4	2073.0
12.5°	2011.5	2018.4	2006.1	2012.9	2007.5	2008.9	2010.2	2007.5
15°	1948.8	1942.0	1925.6	1936.5	1929.8	1922.9	1936.5	1916.0
17.5°	1850.5	1849.3	1839.8	1832.9	1835.6	1834.3	1841.1	1831.6
20°	1734.7	1737.4	1732.0	1729.2	1725.2	1715.6	1723.8	1712.8
22.5°	1609.2	1611.9	1617.4	1606.5	1607.8	1594.3	1606.5	1594.3
25°	1482.4	1481.0	1474.2	1468.7	1453.7	1438.7	1436.1	1426.5
27.5°	1343.3	1333.8	1317.4	1299.6	1276.5	1256.0	1254.7	1247.9
30°	1190.6	1170.1	1140.1	1111.5	1076.0	1044.6	1044.6	1033.7
32.5°	1029.7	983.3	942.4	906.9	860.6	842.8	825.1	815.5
35°	837.3	796.5	747.3	688.7	666.9	623.3	626.0	604.1
37.5°	655.9	605.5	559.2	511.5	473.2	452.8	441.8	431.0
40°	486.8	437.8	387.3	355.9	321.8	304.1	297.3	294.7
42.5°	332.7	291.8	259.1	233.2	215.4	196.4	190.9	188.3
45°	216.8	193.7	163.7	143.2	130.9	120.0	120.0	115.9
47.5°	129.6	114.5	99.6	85.9	77.7	70.9	68.2	66.8
50°	72.2	64.1	55.9	50.4	44.9	40.9	39.6	39.6
52.5°	39.6	35.5	32.8	28.7	25.9	25.9	25.9	24.5
55°	20.4	20.4	20.4	20.4	19.1	19.1	19.1	17.8
57.5°	13.6	13.6	15.0	15.0	15.0	13.6	13.6	13.6
60°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
62.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
65°	5.4	6.8	6.8	6.8	6.8	5.4	5.4	5.4
67.5°	4.1	5.4	5.4	5.4	4.1	4.1	4.1	4.1
70°	4.1	4.1	4.1	4.1	4.1	2.7	2.7	2.7
72.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4	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)