

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: P844161

Luminaire Tested: **LD6C20DE010B40 EU6C20B40 6LBSQLI**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P844161
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: LD6C20DE010B40 EU6C20B40 6LBSQLI
Description:
Light Source: -
Ballast/Driver:

Summary

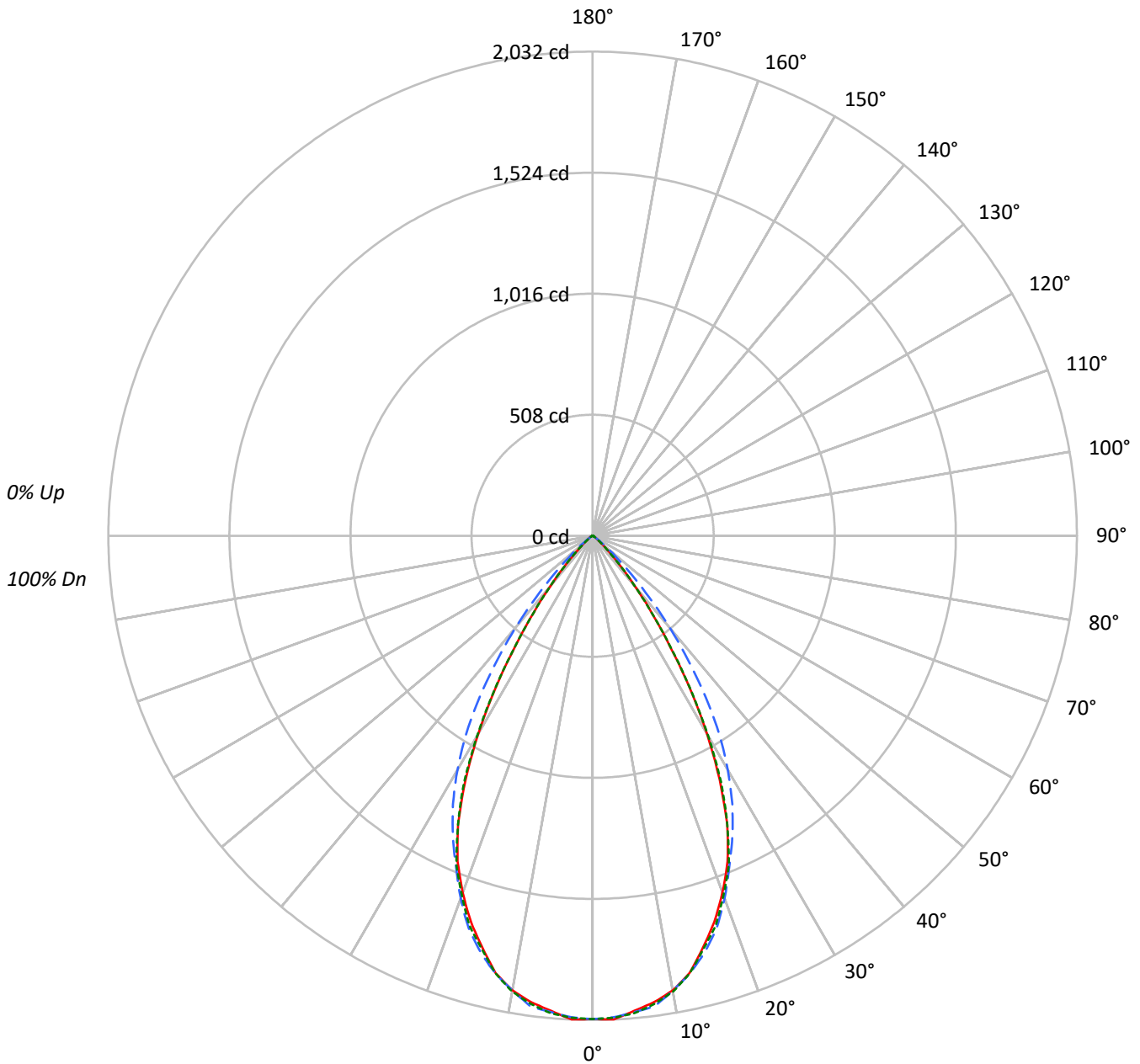
Lumens per Lamp: N/A
Luminaire Lumens: 1905.8 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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°	87321	87321	87321
5°	86496	86717	86937
10°	84703	84703	84930
15°	79748	80773	80029
20°	73012	74185	73544
25°	63445	65930	63502
30°	47713	56418	48160
35°	29624	43463	29760
40°	15586	28299	15513
45°	6460	14163	6613
50°	2485	5305	2485
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°	189.9	10.0
10°-20°	505.1	26.5
20°-30°	619.9	32.5
30°-40°	427.9	22.5
40°-50°	133.8	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°	1314.8	69.0
0°-40°	1742.7	91.4
0°-60°	1897.4	99.6
0°-90°	1905.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1905.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2028	2028	2028	2028	2028	
5°	2001	2009	2006	2007	2012	189
15°	1789	1815	1812	1810	1795	500
25°	1336	1370	1388	1379	1337	598
35°	564	666	827	673	566	360
45°	106	145	233	144	109	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°	2028.1	2028.1	2028.1	2028.1	2028.1	2028.1	2028.1	2028.1	2028.1	2028.1	2028.1
2.5°	2031.9	2033.9	2021.8	2017.9	2028.1	2034.5	2028.1	2039.5	2031.9	2023.0	2025.6
5°	2001.3	2005.2	2003.9	2006.4	2009.0	2009.0	2021.8	2023.0	2025.6	2006.4	2011.5
7.5°	1974.4	1974.4	1980.8	1978.2	1987.2	1984.6	1985.9	1996.2	1997.4	1992.3	1988.5
10°	1937.4	1932.2	1925.8	1925.8	1937.4	1938.6	1948.9	1950.2	1957.8	1937.4	1939.9
12.5°	1879.9	1877.3	1867.0	1872.2	1881.2	1876.0	1892.6	1893.9	1891.4	1882.5	1887.6
15°	1789.1	1799.4	1796.7	1795.4	1816.0	1813.4	1812.1	1816.0	1817.2	1812.1	1808.3
17.5°	1698.5	1707.3	1708.6	1711.1	1715.0	1718.9	1723.9	1738.0	1732.8	1729.0	1741.8
20°	1593.5	1589.7	1600.0	1610.1	1614.1	1614.1	1621.8	1631.9	1624.3	1619.1	1620.4
22.5°	1479.8	1486.2	1481.1	1491.4	1496.6	1502.9	1510.5	1519.5	1513.1	1499.1	1515.7
25°	1335.5	1339.3	1355.9	1354.6	1362.2	1377.7	1389.1	1389.1	1389.1	1387.8	1387.8
27.5°	1154.0	1151.4	1171.9	1185.9	1205.1	1229.4	1244.7	1268.9	1272.9	1268.9	1260.1
30°	959.7	957.2	982.8	1000.6	1035.1	1046.6	1088.8	1111.8	1136.1	1134.8	1128.5
32.5°	757.8	763.0	783.4	809.0	837.0	872.9	912.4	963.5	985.3	990.5	978.8
35°	563.6	571.2	590.4	612.2	646.6	686.3	741.2	789.7	826.9	826.9	817.9
37.5°	406.3	408.9	426.9	440.9	476.7	512.4	559.8	626.2	649.2	658.1	649.2
40°	277.3	277.3	287.6	302.9	332.2	363.0	406.3	456.2	489.5	503.5	488.2
42.5°	176.4	179.0	186.6	196.8	218.5	245.4	278.6	315.7	339.9	350.2	336.1
45°	106.1	108.6	115.1	122.7	136.8	153.4	176.4	203.2	223.7	232.6	226.2
47.5°	63.9	66.4	69.0	74.1	84.3	95.8	107.3	122.7	135.5	136.8	134.2
50°	37.1	37.1	39.7	43.5	48.5	55.0	61.3	70.2	74.1	79.2	74.1
52.5°	24.2	24.2	24.2	25.5	28.1	30.7	33.2	38.4	40.9	40.9	39.7
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°	2028.1	2028.1	2028.1	2028.1	2028.1	2028.1	2028.1	2028.1
2.5°	2033.2	2026.8	2026.8	2026.8	2024.3	2026.8	2030.7	2024.3
5°	2011.5	2014.1	2002.5	2011.5	2015.3	2009.0	2024.3	2011.5
7.5°	1992.3	1988.5	1970.6	1983.4	1991.0	1993.5	1992.3	1982.1
10°	1954.0	1945.1	1937.4	1937.4	1934.8	1933.6	1947.6	1942.6
12.5°	1885.0	1891.4	1879.9	1886.3	1881.2	1882.5	1883.8	1881.2
15°	1826.2	1819.9	1804.4	1814.7	1808.3	1801.9	1814.7	1795.4
17.5°	1734.1	1732.8	1723.9	1717.6	1720.1	1718.9	1725.2	1716.3
20°	1625.6	1628.1	1623.0	1620.4	1616.6	1607.6	1615.3	1605.1
22.5°	1508.0	1510.5	1515.7	1505.4	1506.7	1493.9	1505.4	1493.9
25°	1389.1	1387.8	1381.5	1376.4	1362.2	1348.2	1345.6	1336.7
27.5°	1258.8	1249.9	1234.5	1217.9	1196.2	1177.0	1175.8	1169.3
30°	1115.7	1096.4	1068.4	1041.5	1008.3	978.8	978.8	968.7
32.5°	964.9	921.4	883.0	849.8	806.4	789.7	773.1	764.2
35°	784.7	746.4	700.3	645.4	625.0	584.0	586.6	566.2
37.5°	614.7	567.4	524.0	479.2	443.5	424.3	414.1	403.8
40°	456.2	410.3	363.0	333.5	301.6	285.0	278.6	276.0
42.5°	311.8	273.4	242.8	218.5	201.9	184.0	179.0	176.4
45°	203.2	181.5	153.4	134.2	122.7	112.5	112.5	108.6
47.5°	121.4	107.3	93.3	80.5	72.9	66.4	63.9	62.6
50°	67.7	60.1	52.5	47.3	42.2	38.4	37.1	37.1
52.5°	37.1	33.2	30.7	26.9	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)