

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: METALUX

Report Number: P233299

Luminaire Tested: **4VRVT3-LD5-8-W-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-268-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4VRVT3-LD5-8-W-UNV-L840-CD1-U
Description: 4FT VRVT3 WIDE APPLICATION, 8000LM
Light Source: (392) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8878.8 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.67 / 1.66
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

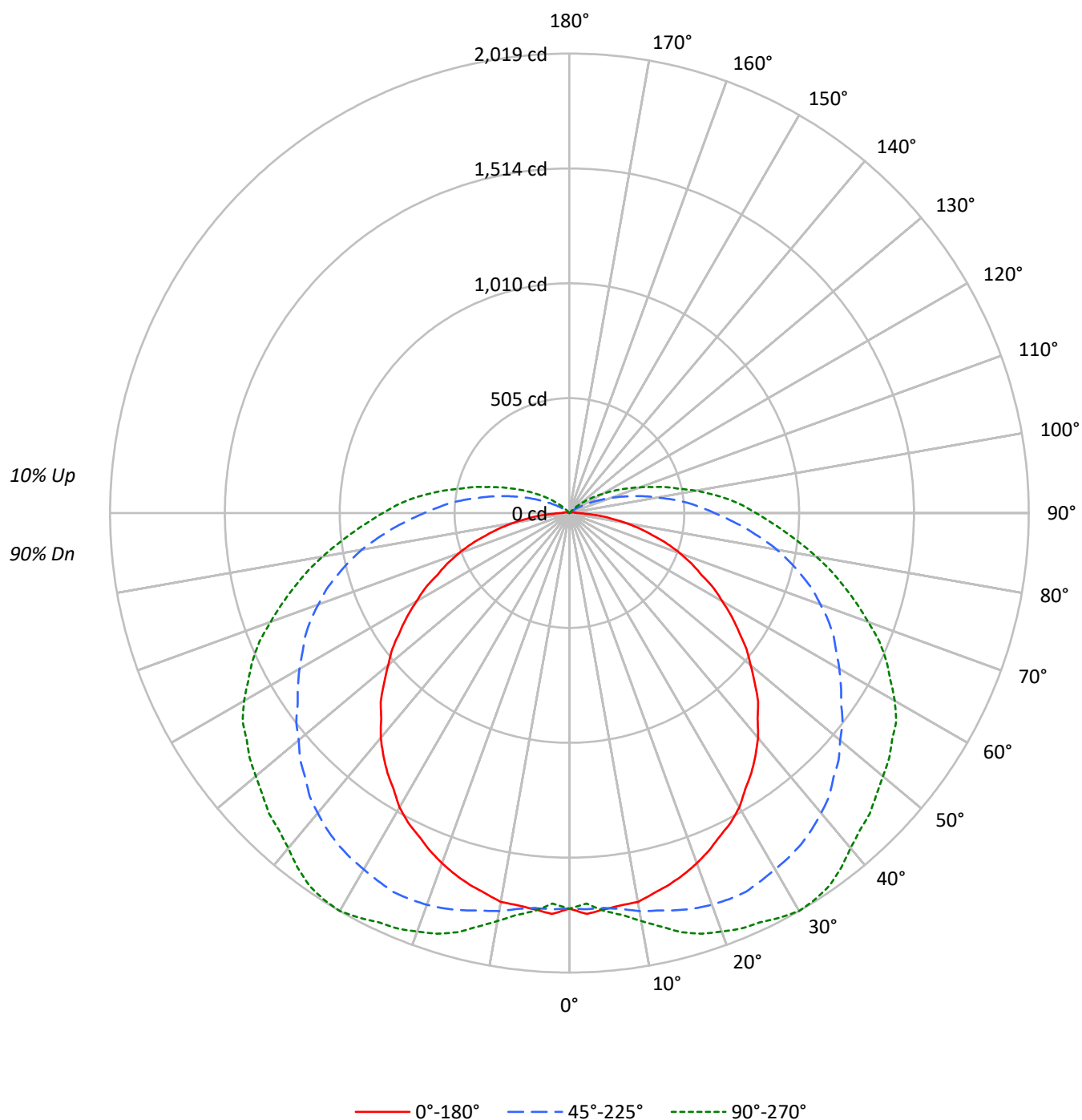
Input Watts (W): 69.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	117	117	117	117	113	113	113	113	105	105	105		99	99	99		93
1	103	96	91	86	99	93	88	83	87	83	79		81	78	74		76
2	92	82	74	67	88	79	72	65	74	67	62		69	64	59		64
3	83	71	61	54	79	68	60	53	64	56	50		59	53	48		55
4	75	62	52	44	72	60	51	44	56	48	42		52	46	40		49
5	69	55	45	38	66	53	44	37	50	42	35		46	40	34		43
6	63	49	39	32	61	47	38	32	44	36	31		42	35	29		39
7	58	44	35	28	56	43	34	28	40	32	27		38	31	26		36
8	54	40	31	25	52	39	30	24	37	29	24		34	28	23		33
9	51	36	28	22	49	35	27	22	33	26	21		32	25	20		30
10	47	33	25	20	45	33	25	19	31	24	19		29	23	18		28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11225	11225	11225
5°	11291	10993	10993
10°	11295	11039	11149
15°	11181	11149	11516
20°	11083	11306	11741
25°	10947	11420	11915
30°	10872	11423	12232
35°	10679	11490	12294
40°	10508	11497	12132
45°	10285	11428	12180
50°	9955	11371	12240
55°	9660	11353	12412
60°	9349	11484	12598
65°	8964	11733	12643
70°	8777	11931	12568
75°	8185	12180	12522
80°	7581	12428	12540
85°	6475	12632	12660



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	1.9
10°-20°	511.3	5.8
20°-30°	834.8	9.4
30°-40°	1087.9	12.3
40°-50°	1221.2	13.8
50°-60°	1248.5	14.1
60°-70°	1172.5	13.2
70°-80°	991.0	11.2
80°-90°	733.9	8.3
90°-100°	480.3	5.4
100°-110°	264.9	3.0
110°-120°	119.9	1.4
120°-130°	40.0	0.5
130°-140°	4.8	0.1
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°	1513.9	17.1
0°-40°	2601.8	29.3
0°-60°	5071.5	57.1
0°-90°	7969.0	89.8
90°-120°	865.1	9.7
90°-150°	909.9	10.2
90°-180°	910.0	10.2
0°-180°	8878.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1738	1738	1738	1738	1738	
5°	1748	1746	1742	1756	1755	166
15°	1691	1731	1807	1887	1907	477
25°	1566	1665	1836	1956	1984	723
35°	1394	1532	1776	1961	1996	872
45°	1173	1348	1642	1816	1867	901
55°	909	1123	1458	1671	1732	815
65°	639	882	1282	1490	1537	639
75°	379	664	1057	1219	1251	405
85°	129	447	779	924	952	130
90°	33	334	638	784	820	23
95°	25	239	521	654	701	19
105°	13	74	286	404	440	14
115°	6	7	120	219	242	6
125°	2	2	25	89	109	2
135°	1	0	0	6	17	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1738	1738	1738	1738	1738	1738	1738	1738	1738	1738	1738
2.5°	1763	1742	1743	1740	1740	1752	1749	1741	1743	1739	1742
5°	1748	1738	1739	1745	1744	1746	1748	1743	1752	1749	1742
7.5°	1738	1730	1732	1724	1740	1744	1744	1741	1750	1753	1754
10°	1735	1720	1726	1714	1730	1748	1745	1756	1763	1770	1776
12.5°	1711	1705	1702	1711	1733	1747	1738	1746	1765	1778	1789
15°	1691	1689	1688	1697	1707	1731	1734	1755	1781	1788	1807
17.5°	1666	1660	1664	1671	1703	1718	1732	1747	1783	1797	1822
20°	1637	1633	1646	1655	1685	1703	1720	1744	1771	1805	1832
22.5°	1604	1602	1613	1631	1670	1687	1699	1732	1774	1802	1836
25°	1566	1566	1578	1607	1653	1665	1684	1713	1752	1788	1836
27.5°	1534	1534	1545	1574	1612	1644	1668	1689	1740	1780	1822
30°	1493	1498	1507	1534	1581	1609	1631	1672	1721	1765	1808
32.5°	1438	1440	1463	1496	1544	1572	1602	1643	1707	1734	1794
35°	1394	1394	1415	1449	1511	1532	1561	1609	1666	1715	1776
37.5°	1343	1344	1372	1418	1467	1494	1522	1575	1632	1683	1751
40°	1290	1298	1312	1358	1416	1449	1473	1533	1606	1656	1721
42.5°	1224	1233	1258	1305	1361	1407	1436	1489	1557	1624	1689
45°	1173	1178	1202	1249	1312	1348	1377	1444	1515	1581	1642
47.5°	1105	1116	1140	1193	1260	1300	1325	1391	1467	1530	1605
50°	1040	1049	1083	1131	1205	1239	1273	1339	1425	1492	1553
52.5°	981	988	1018	1075	1140	1185	1212	1289	1374	1441	1513
55°	909	926	956	1013	1087	1123	1149	1230	1316	1394	1458
57.5°	846	863	894	954	1026	1060	1101	1181	1260	1342	1415
60°	776	794	829	895	967	1002	1037	1124	1209	1286	1370
62.5°	715	728	770	825	899	940	979	1065	1166	1245	1322
65°	639	666	704	769	842	882	925	1013	1103	1191	1282
67.5°	581	597	642	703	781	829	868	967	1058	1145	1231
70°	518	533	577	642	724	766	819	913	1014	1096	1174
72.5°	452	470	512	579	669	718	763	864	968	1043	1121
75°	379	406	455	520	612	664	709	816	909	986	1057
77.5°	318	339	394	474	567	614	662	764	856	927	993
80°	252	281	330	414	508	557	607	703	791	862	926
82.5°	187	213	274	361	457	504	546	640	725	796	851
85°	129	153	221	309	400	447	489	584	661	720	779
87.5°	72	104	174	257	347	392	430	519	591	654	705
90°	33	66	128	208	291	334	374	454	528	583	638
92.5°	28	40	95	167	247	286	326	401	466	528	577
95°	25	27	62	129	200	239	275	347	409	467	521
97.5°	22	22	38	91	159	191	225	295	353	408	455
100°	18	19	22	59	115	146	180	241	299	351	393
102.5°	16	16	17	36	79	107	137	191	249	295	340
105°	13	14	14	19	53	74	99	151	199	245	286
107.5°	11	11	11	12	32	48	68	110	156	200	238
110°	9	9	9	10	15	28	44	78	118	160	193



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	7	8	8	8	9	13	25	56	86	122	153
115°	6	6	6	6	7	7	10	33	62	90	120
117.5°	5	5	5	5	5	5	5	16	41	65	90
120°	4	4	4	4	4	4	4	6	22	45	65
122.5°	3	3	3	3	3	3	3	3	6	25	44
125°	2	2	2	2	2	2	2	2	2	8	25
127.5°	2	2	2	2	1	1	1	1	1	2	9
130°	1	1	1	1	1	1	1	1	0	0	1
132.5°	1	1	1	1	0	0	0	0	0	0	0
135°	1	1	1	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



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CATALOG NUMBER: 4VRVT3-LD5-8-W-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1738	1738	1738	1738	1738	1738	1738	1738	1738	1738
2.5°	1725	1733	1743	1747	1739	1746	1746	1736	1737	1717
5°	1734	1749	1763	1755	1756	1755	1766	1758	1755	1755
7.5°	1758	1771	1774	1783	1782	1792	1783	1791	1788	1781
10°	1783	1789	1797	1821	1823	1819	1834	1822	1823	1820
12.5°	1795	1829	1830	1854	1849	1864	1866	1870	1871	1861
15°	1824	1848	1867	1887	1887	1899	1910	1909	1910	1907
17.5°	1843	1880	1893	1910	1917	1930	1936	1946	1943	1938
20°	1857	1885	1914	1932	1929	1945	1961	1945	1956	1957
22.5°	1853	1897	1918	1941	1950	1956	1969	1981	1981	1976
25°	1856	1894	1926	1949	1956	1970	1987	1991	1997	1984
27.5°	1851	1895	1929	1954	1954	1984	1991	2008	2013	2004
30°	1853	1892	1924	1964	1973	1989	2007	2019	2017	2019
32.5°	1839	1884	1921	1964	1978	1987	2008	2010	2008	2012
35°	1815	1870	1926	1949	1961	1979	1984	1994	2011	1996
37.5°	1800	1854	1884	1920	1933	1948	1959	1961	1964	1963
40°	1772	1823	1850	1887	1892	1916	1909	1919	1928	1922
42.5°	1742	1783	1819	1845	1857	1863	1882	1886	1897	1890
45°	1695	1739	1778	1806	1816	1836	1845	1852	1863	1867
47.5°	1657	1701	1741	1782	1780	1803	1820	1817	1826	1830
50°	1606	1660	1709	1738	1748	1770	1777	1797	1806	1799
52.5°	1565	1624	1655	1703	1715	1733	1753	1755	1774	1771
55°	1523	1576	1626	1657	1671	1694	1708	1716	1724	1732
57.5°	1470	1538	1580	1619	1634	1649	1670	1680	1697	1703
60°	1429	1499	1534	1579	1594	1611	1626	1635	1648	1651
62.5°	1385	1448	1491	1533	1547	1561	1578	1593	1598	1591
65°	1334	1398	1437	1479	1490	1517	1512	1527	1533	1537
67.5°	1286	1357	1387	1412	1438	1435	1455	1454	1466	1474
70°	1229	1285	1313	1350	1357	1366	1382	1386	1393	1397
72.5°	1170	1228	1253	1279	1296	1295	1306	1314	1323	1324
75°	1112	1150	1181	1206	1219	1221	1235	1233	1254	1251
77.5°	1045	1087	1107	1132	1143	1154	1161	1167	1170	1178
80°	966	1016	1031	1058	1066	1078	1081	1094	1099	1102
82.5°	899	932	955	982	1000	998	1011	1019	1025	1025
85°	824	862	883	907	924	927	940	940	948	952
87.5°	746	792	809	835	854	851	860	872	876	883
90°	677	714	742	767	784	786	796	806	808	820
92.5°	621	652	682	708	714	722	731	747	750	762
95°	556	594	618	644	654	660	670	682	692	701
97.5°	497	531	557	577	591	595	608	616	623	633
100°	434	464	492	515	526	529	543	549	555	564
102.5°	376	412	428	453	462	467	477	490	491	494
105°	317	352	375	393	404	408	418	432	433	440
107.5°	271	301	324	343	354	358	366	371	378	380
110°	226	253	276	292	301	309	318	326	330	331



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	183	209	229	249	257	263	272	282	287	287
115°	147	171	192	208	219	222	230	238	242	242
117.5°	113	138	157	171	179	183	193	201	204	206
120°	86	106	124	139	144	151	158	165	169	169
122.5°	63	81	94	107	116	118	127	135	137	139
125°	43	58	71	82	89	91	98	105	107	109
127.5°	22	37	49	60	65	69	75	81	83	84
130°	6	17	29	39	43	46	53	57	61	60
132.5°	0	3	10	19	22	26	32	36	38	40
135°	0	0	1	4	6	8	12	17	17	17
137.5°	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)