

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P152370

Luminaire Tested: **TLM-E03-LED-E1-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152370
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-E03-LED-E1-SL4
Description: TALON MEDIUM LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

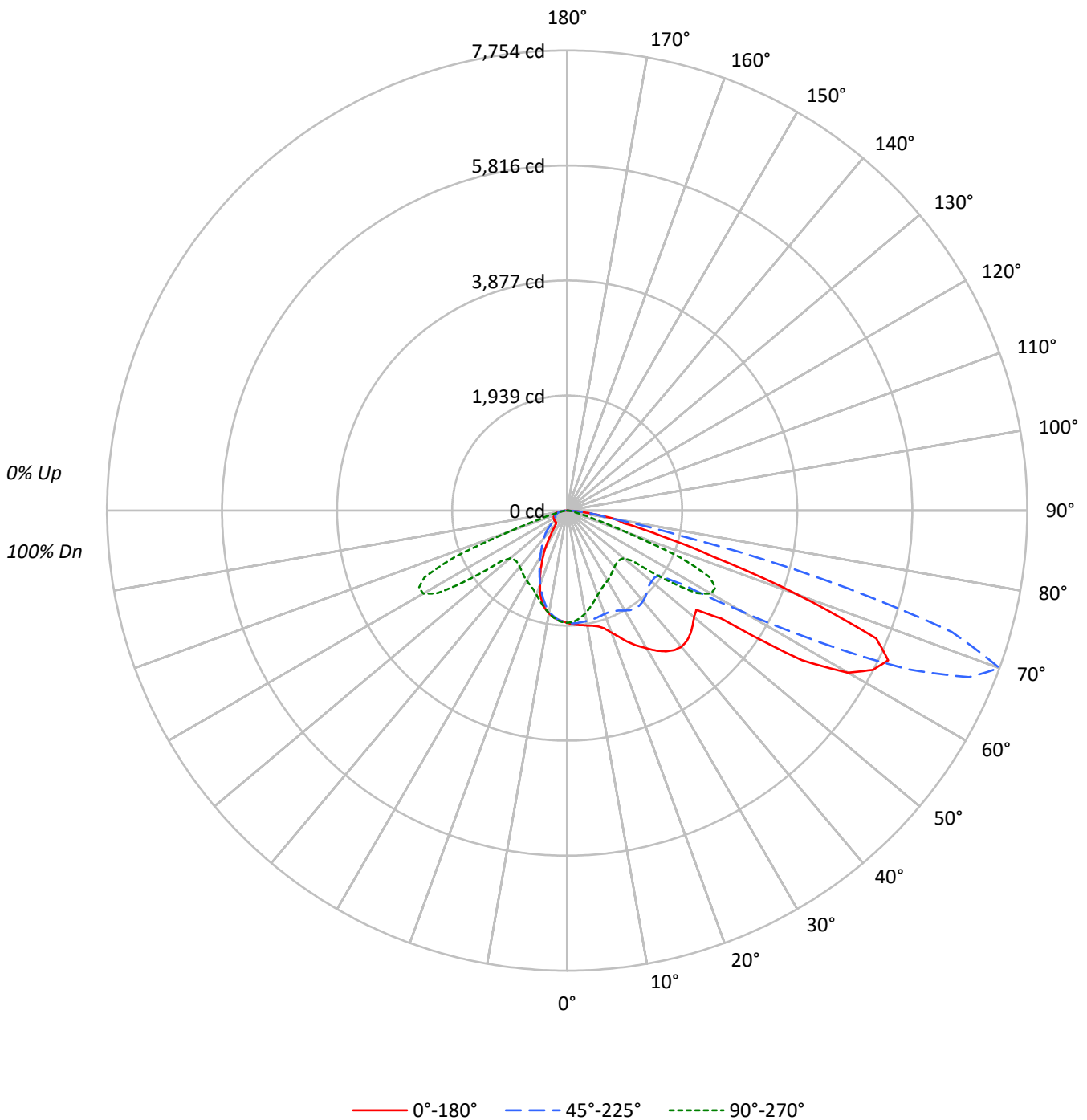
Lumens per Lamp: N/A
Luminaire Lumens: 8862.3 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.07 / 1.36
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 75.2
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					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	106	100	94	89	103	97	92	88	93	89	85	89	86	82	85	82	80	78					78			
2	93	83	74	67	90	81	73	66	77	70	64	73	68	63	70	66	61	59					59			
3	83	70	59	51	80	68	58	51	65	57	50	62	55	49	59	53	48	45					45			
4	74	60	49	41	72	58	48	40	55	47	40	53	45	39	51	44	39	36					36			
5	67	52	41	33	65	51	41	33	48	40	33	46	38	32	44	37	32	29					29			
6	61	46	36	28	59	45	35	28	43	34	28	41	33	27	39	32	27	25					25			
7	57	41	31	24	55	40	31	24	39	30	24	37	29	23	36	29	23	21					21			
8	53	37	28	21	51	36	27	21	35	27	21	34	26	21	32	26	20	18					18			
9	49	34	25	19	47	33	25	19	32	24	18	31	24	18	30	23	18	16					16			
10	46	31	23	17	44	31	22	17	30	22	17	29	21	16	28	21	16	14					14			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	40709	40709	40709
5°	41794	40087	39827
10°	43020	38430	38495
15°	45043	36395	35860
20°	50126	34547	30722
25°	58124	33682	24561
30°	66620	33882	18345
35°	76056	34139	11931
40°	84167	34847	8234
45°	89417	36808	8220
50°	93508	41831	9143
55°	118978	76567	9984
60°	235213	120427	11194
65°	304056	134989	12582
70°	258696	63824	14162
75°	135995	23456	17467
80°	101163	12769	18968
85°	58540	12350	19019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.7	2.0
10°-20°	483.6	5.5
20°-30°	715.9	8.1
30°-40°	904.7	10.2
40°-50°	1023.2	11.5
50°-60°	1456.1	16.4
60°-70°	2711.8	30.6
70°-80°	1242.8	14.0
80°-90°	147.5	1.7
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°	1376.2	15.5
0°-40°	2281.0	25.7
0°-60°	4760.2	53.7
0°-90°	8862.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8862.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1891	1891	1891	1891	1891	
5°	1934	1902	1855	1840	1843	186
15°	2021	1875	1633	1546	1609	582
25°	2447	1865	1418	1105	1034	1136
35°	2894	2014	1299	740	454	1809
45°	2937	1913	1209	484	270	2259
55°	3170	1902	2040	246	266	3331
65°	5969	6321	2650	220	247	5504
75°	1635	4444	282	173	210	2010
85°	237	208	50	79	77	298
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°	1891	1891	1891	1891	1891	1891	1891	1891	1891	1891	1891
2.5°	1920	1925	1919	1918	1918	1917	1911	1910	1902	1903	1905
5°	1934	1936	1932	1931	1929	1925	1920	1914	1908	1902	1897
7.5°	1948	1946	1943	1943	1940	1934	1924	1916	1903	1896	1887
10°	1968	1965	1961	1959	1954	1945	1931	1920	1904	1890	1875
12.5°	1987	1986	1980	1977	1969	1960	1943	1926	1905	1883	1863
15°	2021	2017	2011	2005	1992	1980	1954	1934	1904	1875	1844
17.5°	2080	2073	2067	2054	2038	2017	1979	1945	1904	1862	1827
20°	2188	2173	2165	2148	2120	2082	2023	1968	1907	1853	1806
22.5°	2310	2300	2289	2278	2234	2179	2099	2017	1925	1849	1789
25°	2447	2434	2428	2409	2368	2305	2196	2082	1966	1865	1789
27.5°	2569	2565	2564	2542	2503	2429	2300	2163	2022	1898	1804
30°	2680	2676	2674	2662	2617	2529	2389	2235	2083	1944	1832
32.5°	2798	2785	2779	2756	2705	2602	2442	2282	2131	1989	1863
35°	2894	2883	2871	2838	2766	2644	2465	2298	2150	2014	1879
37.5°	2964	2953	2936	2894	2805	2658	2464	2293	2143	2010	1882
40°	2995	2984	2966	2913	2812	2650	2445	2270	2122	1989	1870
42.5°	2983	2975	2952	2901	2790	2614	2407	2227	2082	1955	1843
45°	2937	2931	2909	2855	2740	2556	2351	2173	2034	1913	1807
47.5°	2868	2866	2844	2791	2677	2498	2293	2120	1986	1872	1777
50°	2792	2782	2771	2722	2618	2448	2251	2087	1959	1857	1764
52.5°	2744	2741	2731	2687	2587	2419	2232	2075	1957	1854	1757
55°	3170	3177	3085	2894	2726	2499	2289	2136	2006	1902	1831
57.5°	4689	4658	4500	4121	3693	3128	2721	2474	2313	2331	2367
60°	5463	5457	5428	5281	4996	4566	4089	3542	3368	3387	3401
62.5°	5809	5818	5840	5785	5710	5585	5347	5127	4894	4807	4574
65°	5969	5985	6035	6066	6095	6117	6211	6469	6639	6321	5581
67.5°	5638	5715	5880	6041	6185	6390	6708	7307	7724	7333	6260
70°	4110	4215	4404	4902	5434	5899	6515	7427	8056	7754	6428
72.5°	2577	2606	2690	2873	3268	3865	4942	6310	7036	6795	5433
75°	1635	1645	1642	1684	1751	1881	2307	3727	4820	4444	3028
77.5°	974	989	995	1008	1040	1086	1121	1268	2021	1962	1099
80°	816	828	818	815	795	781	798	781	725	698	643
82.5°	432	431	428	457	516	562	597	589	533	454	385
85°	237	245	245	255	246	247	255	269	249	208	170
87.5°	20	31	25	31	42	30	29	29	25	18	16
90°	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°	95°	100°	105°
0°	1891	1891	1891	1891	1891	1891	1891	1891	1891	1891	1891
2.5°	1900	1898	1894	1891	1891	1886	1883	1881	1880	1876	1876
5°	1894	1887	1880	1875	1872	1867	1859	1855	1850	1846	1844
7.5°	1881	1868	1857	1849	1839	1831	1821	1812	1803	1799	1797
10°	1861	1844	1827	1812	1798	1784	1771	1758	1747	1739	1731
12.5°	1842	1816	1794	1772	1750	1733	1715	1696	1680	1665	1661
15°	1816	1786	1758	1731	1704	1676	1654	1633	1607	1590	1577
17.5°	1792	1756	1722	1690	1657	1628	1595	1567	1541	1515	1496
20°	1766	1727	1691	1655	1619	1582	1544	1508	1476	1445	1414
22.5°	1743	1703	1668	1629	1589	1547	1503	1458	1421	1381	1345
25°	1729	1685	1649	1611	1567	1521	1471	1418	1373	1327	1284
27.5°	1729	1672	1635	1597	1552	1503	1448	1390	1339	1288	1235
30°	1744	1674	1624	1584	1538	1485	1424	1363	1307	1247	1196
32.5°	1758	1678	1616	1565	1512	1460	1398	1333	1271	1214	1160
35°	1767	1678	1601	1536	1476	1425	1364	1299	1236	1180	1130
37.5°	1768	1670	1577	1503	1440	1387	1329	1268	1208	1156	1114
40°	1758	1654	1553	1468	1402	1348	1295	1240	1186	1143	1107
42.5°	1740	1637	1530	1440	1371	1315	1266	1219	1172	1135	1105
45°	1713	1614	1509	1423	1355	1296	1248	1209	1169	1138	1108
47.5°	1689	1606	1516	1434	1363	1302	1253	1220	1189	1168	1127
50°	1684	1602	1519	1443	1371	1309	1266	1249	1240	1227	1164
52.5°	1670	1601	1541	1499	1453	1424	1379	1395	1385	1339	1225
55°	1817	1837	1893	1973	2047	2064	2059	2040	1939	1668	1372
57.5°	2498	2611	2717	2764	2758	2705	2667	2590	2444	2114	1662
60°	3444	3462	3406	3323	3183	3066	2941	2797	2585	2262	1840
62.5°	4315	4073	3824	3590	3377	3191	3017	2816	2540	2203	1817
65°	4930	4418	4025	3689	3388	3128	2911	2650	2339	2035	1684
67.5°	5247	4462	3859	3391	2964	2604	2315	2061	1830	1697	1474
70°	4893	3787	2947	2418	1907	1529	1208	1014	947	1073	1116
72.5°	3646	2465	1753	1356	1039	828	635	499	406	426	553
75°	1724	1064	752	572	455	377	308	282	236	196	184
77.5°	671	489	404	296	210	169	144	139	142	138	136
80°	511	346	217	159	137	121	107	103	105	110	115
82.5°	285	178	132	115	103	88	80	74	75	81	92
85°	110	86	79	76	71	57	49	50	57	68	68
87.5°	12	12	16	12	12	12	11	13	14	18	21
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1891	1891	1891	1891	1891	1891	1891	1891	1891	1891	1891
2.5°	1874	1874	1874	1872	1873	1869	1869	1866	1871	1868	1867
5°	1845	1844	1840	1840	1840	1840	1843	1835	1841	1841	1838
7.5°	1796	1796	1785	1791	1789	1792	1796	1792	1798	1802	1799
10°	1728	1728	1719	1726	1723	1730	1737	1733	1737	1743	1745
12.5°	1653	1649	1641	1644	1644	1648	1651	1656	1661	1669	1673
15°	1566	1560	1550	1550	1544	1546	1552	1554	1564	1575	1588
17.5°	1477	1462	1451	1438	1428	1436	1443	1448	1456	1473	1482
20°	1393	1363	1342	1325	1314	1319	1328	1334	1341	1345	1348
22.5°	1310	1276	1247	1226	1208	1213	1209	1206	1211	1198	1197
25°	1238	1198	1159	1134	1112	1105	1084	1079	1065	1054	1046
27.5°	1186	1134	1091	1062	1027	1001	974	947	932	914	905
30°	1145	1090	1039	990	944	904	868	833	809	783	766
32.5°	1107	1056	994	927	865	820	773	733	695	661	636
35°	1081	1024	945	863	793	740	690	633	587	543	516
37.5°	1067	997	900	809	731	671	609	543	487	446	405
40°	1056	970	860	761	679	607	535	457	395	352	320
42.5°	1044	940	825	723	632	548	461	378	319	289	275
45°	1031	914	792	687	586	484	384	307	272	262	262
47.5°	1028	897	768	652	534	410	313	265	255	257	261
50°	1040	892	747	611	465	332	265	249	251	257	263
52.5°	1069	896	725	554	383	274	245	244	250	259	265
55°	1118	896	683	469	306	246	238	242	250	258	263
57.5°	1223	887	609	375	256	236	236	241	248	256	260
60°	1348	875	505	290	231	228	235	241	247	254	258
62.5°	1356	844	400	240	218	223	234	242	244	249	254
65°	1246	736	318	215	212	220	231	237	238	240	245
67.5°	1091	600	257	203	206	215	221	226	229	234	235
70°	896	482	220	191	194	204	209	214	220	226	223
72.5°	635	375	193	178	182	191	197	201	206	212	208
75°	270	262	167	161	167	173	179	185	190	193	193
77.5°	138	154	144	144	148	154	159	165	168	171	175
80°	117	119	121	125	129	135	140	145	146	147	149
82.5°	97	101	103	109	112	114	117	117	119	119	116
85°	70	75	78	79	78	79	80	82	87	87	83
87.5°	20	19	24	25	27	31	35	42	44	46	46
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1891	1891	1891	1891
2.5°	1866	1868	1864	1865
5°	1838	1842	1837	1843
7.5°	1802	1808	1807	1806
10°	1750	1758	1758	1761
12.5°	1684	1689	1693	1695
15°	1595	1604	1609	1609
17.5°	1488	1494	1497	1493
20°	1352	1350	1351	1341
22.5°	1195	1198	1189	1191
25°	1041	1036	1040	1034
27.5°	892	893	882	887
30°	750	745	731	738
32.5°	613	600	585	576
35°	484	464	457	454
37.5°	380	358	351	343
40°	302	294	291	293
42.5°	271	271	273	274
45°	263	266	269	270
47.5°	264	267	271	272
50°	266	269	272	273
52.5°	267	267	269	270
55°	265	264	265	266
57.5°	261	259	260	263
60°	259	256	258	260
62.5°	254	253	255	256
65°	243	244	247	247
67.5°	233	234	235	236
70°	221	222	224	225
72.5°	207	211	214	218
75°	196	200	206	210
77.5°	177	180	187	192
80°	150	149	150	153
82.5°	115	115	114	113
85°	81	80	77	77
87.5°	44	43	42	40
90°	0	0	0	0

(END OF REPORT)