

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: P151830

Luminaire Tested: **TLM-E06-LED-E1-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P151830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-E06-LED-E1-SL4-HSS
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (126) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

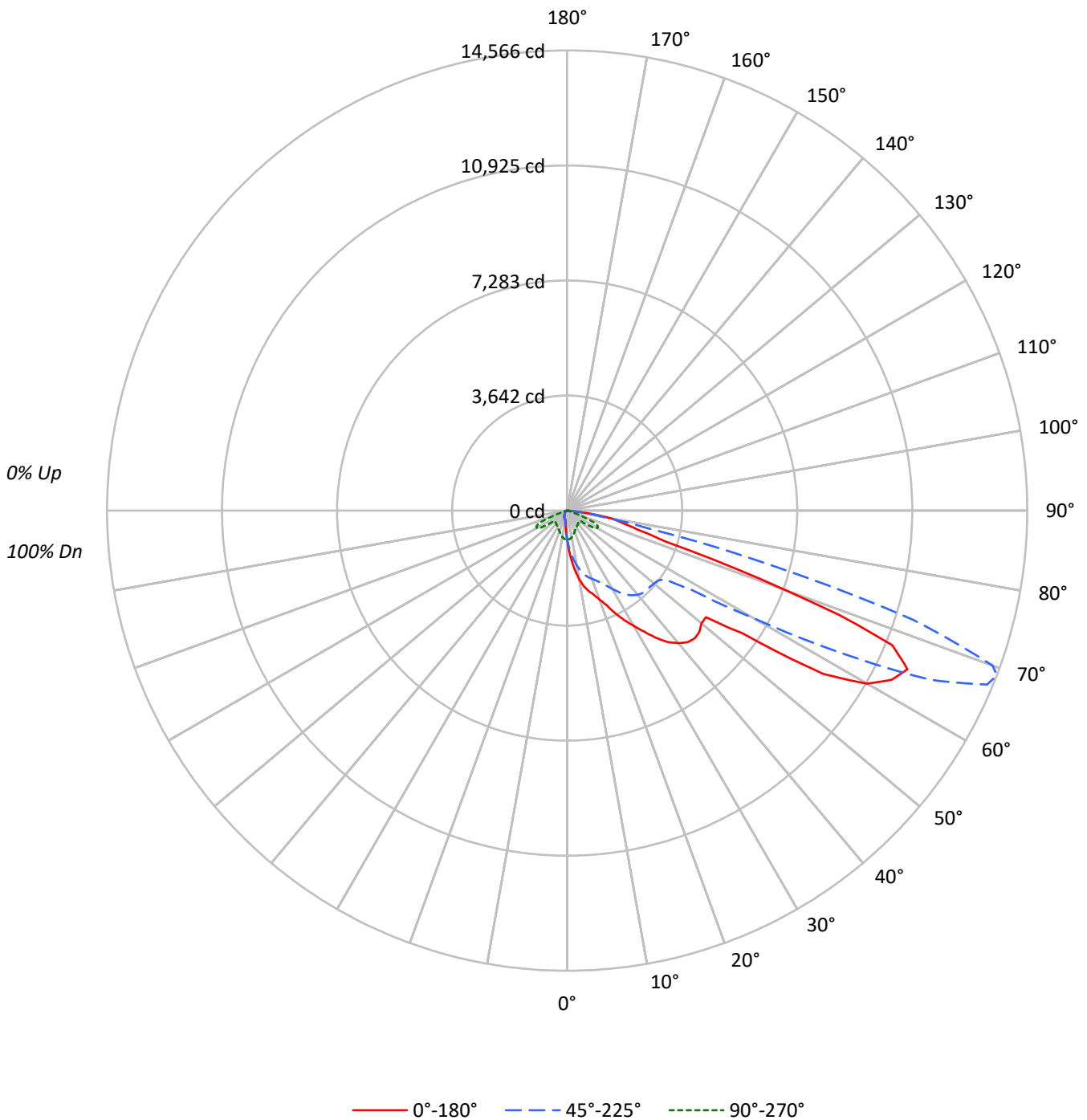
Lumens per Lamp: N/A
Luminaire Lumens: 12208.8 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 4.24 / 0.98 / 4.1
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (A_{in}): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	105	99	93	88	102	96	91	86	92	87	83	88	84	81	84	81	78	76
2	91	80	71	63	88	78	70	62	74	67	61	71	65	59	68	62	58	55
3	80	66	55	47	77	64	54	46	61	52	45	58	51	44	55	49	43	41
4	71	56	44	36	68	54	44	35	51	42	35	49	41	34	46	39	33	31
5	64	48	36	28	61	46	36	28	44	35	27	42	33	27	40	32	27	24
6	58	42	31	23	56	40	30	22	38	29	22	37	28	22	35	27	22	19
7	53	37	26	19	51	36	26	19	34	25	18	32	24	18	31	24	18	16
8	49	33	23	16	47	32	22	16	31	22	16	29	21	15	28	21	15	13
9	45	30	20	14	44	29	20	14	28	19	13	27	19	13	25	18	13	11
10	42	27	18	12	41	27	18	12	25	17	12	24	17	12	23	17	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	9924	9924	9924
5°	16964	9789	5208
10°	24155	9356	3345
15°	29375	8603	3031
20°	34273	8018	2749
25°	42423	7672	2423
30°	52351	7507	2063
35°	64703	7437	1735
40°	76973	7560	1602
45°	87012	7885	1644
50°	92972	8674	1507
55°	127048	15013	901
60°	235902	23810	646
65°	302681	25724	611
70°	228547	10637	692
75°	95155	4076	832
80°	86906	3843	1116
85°	7657	3458	1976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	0.8
10°-20°	326.7	2.7
20°-30°	625.4	5.1
30°-40°	1040.0	8.5
40°-50°	1407.3	11.5
50°-60°	2200.8	18.0
60°-70°	4524.8	37.1
70°-80°	1820.7	14.9
80°-90°	168.4	1.4
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°	1046.9	8.6
0°-40°	2086.8	17.1
0°-60°	5694.9	46.6
0°-90°	12208.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12208.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	922	922	922	922	922	
5°	1570	1336	906	576	482	169
15°	2636	2090	772	286	272	753
25°	3572	2516	646	228	204	1673
35°	4924	3248	566	162	132	3088
45°	5716	3556	518	106	108	4369
55°	6770	3780	800	70	48	6826
65°	11884	12672	1010	34	24	10887
75°	2288	6672	98	14	20	3067
85°	62	268	28	10	16	384
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°	922	922	922	922	922	922	922	922	922	922	922
2.5°	1230	1216	1200	1200	1180	1180	1168	1136	1132	1114	1096
5°	1570	1558	1538	1520	1504	1476	1456	1418	1376	1336	1300
7.5°	1902	1896	1860	1854	1828	1782	1742	1686	1614	1558	1492
10°	2210	2196	2188	2154	2116	2066	2004	1936	1852	1764	1670
12.5°	2454	2446	2410	2396	2356	2306	2228	2140	2056	1942	1832
15°	2636	2622	2598	2576	2528	2484	2412	2316	2214	2090	1958
17.5°	2788	2762	2756	2722	2672	2620	2540	2452	2332	2208	2064
20°	2992	2956	2944	2894	2836	2764	2672	2562	2436	2300	2152
22.5°	3232	3206	3180	3136	3062	2960	2826	2706	2546	2396	2236
25°	3572	3550	3508	3448	3356	3234	3072	2896	2708	2516	2328
27.5°	3902	3882	3852	3806	3702	3568	3368	3144	2906	2674	2466
30°	4212	4194	4164	4118	4026	3894	3668	3428	3132	2862	2612
32.5°	4546	4540	4506	4440	4360	4182	3936	3678	3378	3066	2774
35°	4924	4878	4846	4780	4644	4454	4166	3884	3568	3248	2922
37.5°	5244	5200	5160	5076	4910	4668	4342	4032	3706	3380	3048
40°	5478	5456	5408	5298	5112	4824	4472	4134	3806	3478	3150
42.5°	5652	5618	5564	5450	5230	4902	4524	4176	3852	3538	3216
45°	5716	5688	5638	5514	5276	4924	4522	4164	3854	3556	3260
47.5°	5678	5650	5606	5490	5256	4898	4486	4130	3834	3562	3300
50°	5552	5536	5502	5404	5194	4848	4454	4112	3830	3592	3356
52.5°	5540	5530	5488	5390	5176	4832	4450	4122	3864	3630	3396
55°	6770	6628	6310	6040	5596	5068	4652	4284	4008	3780	3616
57.5°	9622	9410	8992	8478	7458	6456	5654	5074	4788	4684	4746
60°	10958	10920	10854	10610	10088	9226	8266	7228	6812	6776	6902
62.5°	11592	11568	11588	11558	11396	11144	10868	10420	10008	9742	9178
65°	11884	11900	12014	12104	12124	12190	12392	12950	13358	12672	11106
67.5°	11142	11236	11498	11826	12210	12582	13182	14358	15196	14390	12166
69°	9224	9270	9910	10528	11466	12122	12992	14534	15476	14566	12082
70°	7262	7304	7990	8830	10416	11260	12398	14236	15214	14332	11650
72.5°	3276	3216	3458	3908	5632	6972	8962	11534	12552	11482	8716
75°	2288	2262	2288	2290	2558	3300	4164	6252	7732	6672	4164
77.5°	1772	1754	1736	1716	1748	1958	2042	2218	2880	2724	1588
80°	1402	1386	1430	1416	1416	1440	1424	1358	1234	1144	1024
82.5°	652	656	656	712	858	1002	1048	982	872	742	598
85°	62	70	118	182	362	408	410	340	340	268	216
87.5°	0	2	2	2	18	50	42	12	6	6	10
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°	922	922	922	922	922	922	922	922	922	922	922
2.5°	1064	1058	1034	1010	988	964	942	920	896	878	856
5°	1244	1200	1150	1102	1054	1004	952	906	858	814	772
7.5°	1426	1340	1272	1186	1108	1030	958	884	816	752	692
10°	1580	1476	1370	1260	1148	1044	944	856	766	688	614
12.5°	1706	1574	1444	1306	1180	1048	924	818	712	624	548
15°	1820	1668	1512	1352	1192	1042	904	772	664	564	478
17.5°	1912	1738	1562	1382	1210	1034	878	740	614	510	426
20°	1992	1810	1620	1418	1222	1032	856	700	570	460	378
22.5°	2066	1884	1680	1464	1240	1030	836	670	532	422	340
25°	2150	1958	1744	1512	1272	1038	824	646	498	386	310
27.5°	2244	2042	1820	1572	1314	1054	820	620	468	352	286
30°	2376	2142	1896	1632	1352	1072	816	604	438	326	262
32.5°	2492	2240	1980	1694	1394	1090	814	582	410	300	244
35°	2614	2330	2052	1754	1430	1110	812	566	384	274	226
37.5°	2720	2406	2108	1806	1470	1128	814	552	360	252	210
40°	2810	2484	2170	1854	1512	1156	816	538	336	232	196
42.5°	2890	2558	2236	1908	1560	1188	828	526	316	214	182
45°	2952	2626	2308	1984	1638	1240	850	518	296	198	170
47.5°	3016	2726	2430	2104	1752	1322	888	516	280	186	160
50°	3104	2826	2538	2226	1856	1406	934	518	260	174	150
52.5°	3168	2928	2678	2438	2104	1662	1112	554	250	164	138
55°	3546	3504	3510	3550	3292	2828	1860	800	294	186	136
57.5°	5000	5148	5234	5232	4806	3986	2498	1028	328	216	162
60°	6912	6800	6642	6252	5686	4550	2794	1106	284	172	148
62.5°	8602	7946	7364	6732	5990	4746	2854	1100	248	130	104
65°	9656	8476	7536	6744	5870	4582	2700	1010	210	106	86
67.5°	9908	8190	6860	5850	4904	3566	1982	760	164	88	76
69°	9358	7280	5684	4538	3568	2366	1226	480	126	80	70
70°	8608	6332	4630	3642	2642	1662	858	338	102	74	64
72.5°	5538	3326	2276	1584	1090	662	336	152	78	62	52
75°	2148	1230	892	678	530	368	204	98	66	52	40
77.5°	1058	810	662	454	264	164	110	76	54	38	26
80°	836	556	332	206	156	118	84	62	40	24	18
82.5°	428	234	172	140	116	92	68	44	26	16	14
85°	134	98	88	86	80	66	48	28	16	10	10
87.5°	10	14	18	14	16	14	18	12	8	8	6
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°	922	922	922	922	922	922	922	922	922	922	922
2.5°	840	816	794	780	754	744	734	730	712	716	700
5°	734	692	660	628	598	576	558	536	518	510	494
7.5°	638	584	542	508	472	444	420	404	388	372	364
10°	554	496	448	414	380	356	338	326	316	310	308
12.5°	476	420	376	346	320	308	300	294	292	290	290
15°	416	360	326	304	292	286	284	280	276	274	274
17.5°	360	318	294	282	276	272	268	264	260	258	258
20°	322	288	276	268	262	258	252	248	246	244	242
22.5°	292	270	262	256	248	242	238	234	230	228	226
25°	270	256	250	242	234	228	222	216	212	210	206
27.5°	254	244	236	226	218	212	206	200	196	192	190
30°	240	230	220	212	202	196	188	182	180	176	172
32.5°	226	216	206	196	186	178	174	166	162	160	156
35°	210	200	188	180	170	162	156	150	146	142	140
37.5°	196	184	172	162	154	146	140	134	130	126	124
40°	180	168	156	146	138	132	126	120	116	114	114
42.5°	166	152	140	132	126	118	112	106	104	102	104
45°	152	138	128	120	114	106	100	96	94	96	98
47.5°	140	126	116	110	104	98	92	88	88	92	96
50°	128	114	106	102	96	90	82	80	82	86	90
52.5°	116	100	94	92	86	80	74	72	74	78	76
55°	104	88	86	84	78	70	64	64	64	62	58
57.5°	100	78	76	74	68	60	56	52	50	44	42
60°	104	70	70	66	60	52	46	40	36	32	32
62.5°	84	64	62	58	50	42	36	30	28	26	26
65°	68	58	54	48	42	34	28	24	22	22	24
67.5°	62	52	46	40	34	26	22	20	20	22	22
69°	58	48	42	36	30	24	20	20	20	20	22
70°	54	46	40	34	26	20	18	18	20	20	22
72.5°	42	36	34	28	20	18	16	18	18	20	20
75°	32	26	26	22	16	14	14	16	16	18	18
77.5°	22	18	18	16	14	12	12	14	16	16	18
80°	16	14	12	14	12	10	12	14	14	16	16
82.5°	12	12	12	12	10	10	12	12	14	16	16
85°	10	10	10	10	10	10	10	12	12	14	14
87.5°	6	6	6	8	8	10	10	10	10	12	12
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	922	922	922	922
2.5°	696	694	686	688
5°	488	476	484	482
7.5°	358	356	354	358
10°	306	306	304	306
12.5°	288	288	288	288
15°	274	274	272	272
17.5°	258	258	258	256
20°	242	240	240	240
22.5°	224	222	222	222
25°	206	204	204	204
27.5°	188	186	184	184
30°	170	168	166	166
32.5°	152	150	148	148
35°	136	136	134	132
37.5°	122	122	122	122
40°	112	114	114	114
42.5°	106	108	110	112
45°	102	106	108	108
47.5°	100	102	104	104
50°	92	90	90	90
52.5°	74	70	68	66
55°	54	52	48	48
57.5°	38	38	36	36
60°	30	30	28	30
62.5°	26	26	26	26
65°	24	24	24	24
67.5°	24	24	24	24
69°	22	22	22	22
70°	22	22	22	22
72.5°	20	20	20	20
75°	18	20	20	20
77.5°	18	18	18	18
80°	16	16	18	18
82.5°	16	16	16	16
85°	14	14	16	16
87.5°	12	12	14	14
90°	0	0	0	0

(END OF REPORT)