

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: P147860

Luminaire Tested: **TLM-E03-LED-E1-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147860
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)
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-E1-5WQ
Description: TALON MEDIUM LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

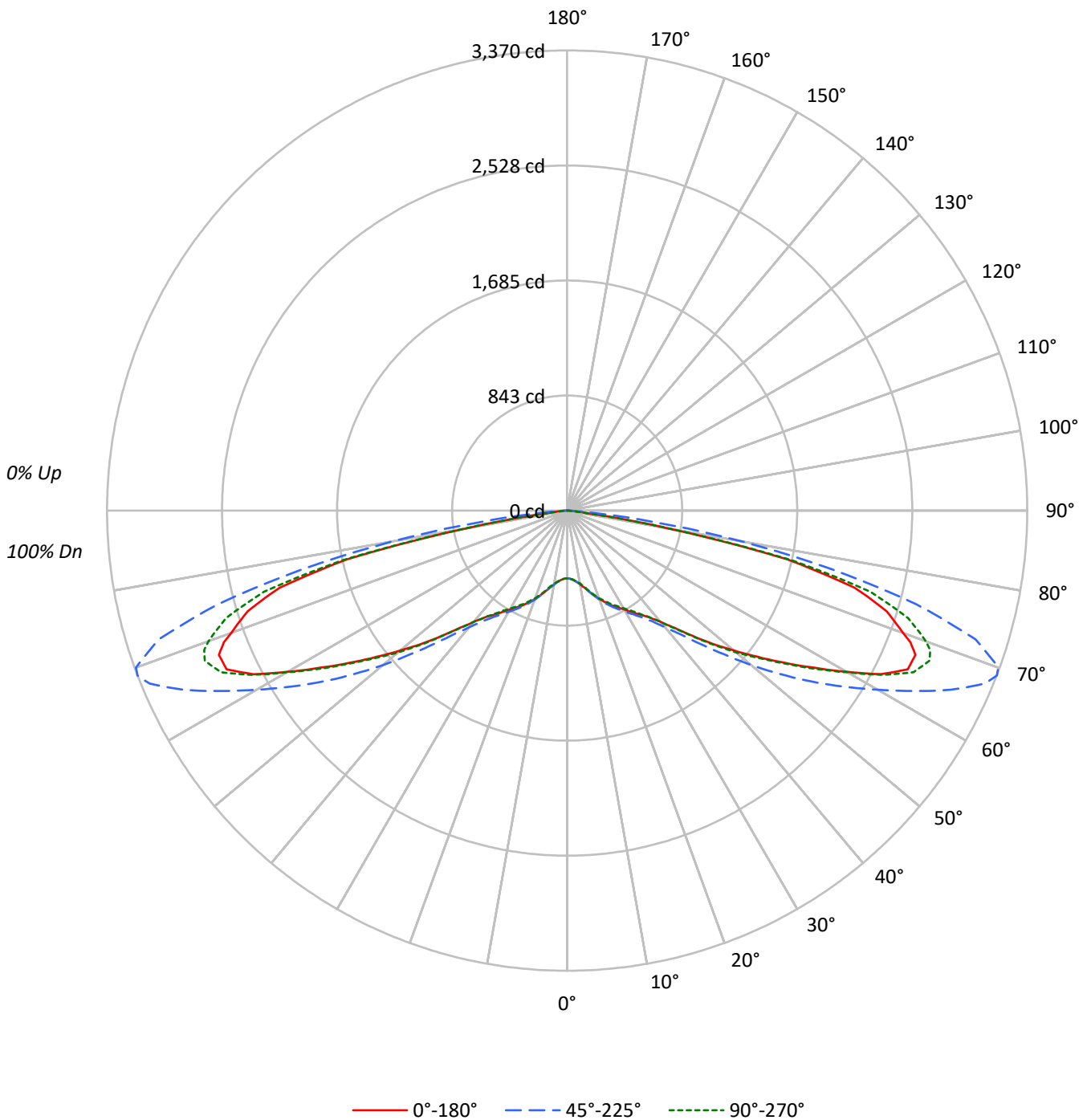
Lumens per Lamp: N/A
Luminaire Lumens: 9551.4 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 3.9 / 3.92 / 3.98
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	103	96	90	84	100	94	88	82	89	84	80	85	81	77	81	78	75	72
2	89	77	67	58	86	75	65	58	71	63	56	67	60	55	64	58	53	51
3	78	63	51	42	75	61	50	42	58	48	41	54	46	40	52	45	39	36
4	69	52	41	31	66	51	40	31	48	38	31	45	37	30	43	36	29	27
5	62	45	33	24	59	44	32	24	41	31	24	39	30	23	37	29	23	20
6	56	39	28	19	54	38	27	19	36	26	19	34	25	19	32	24	18	16
7	51	34	24	16	49	34	23	16	32	22	16	30	22	15	29	21	15	13
8	47	31	20	13	45	30	20	13	29	20	13	27	19	13	26	18	13	10
9	44	28	18	11	42	27	18	11	26	17	11	25	17	11	23	16	11	9
10	41	25	16	10	39	25	16	10	24	15	10	23	15	10	22	15	10	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10678	10678	10678
5°	11021	11021	10978
10°	12001	11979	11870
15°	13618	13684	13484
20°	15762	15899	15624
25°	18148	18433	17886
30°	20781	21254	20533
35°	24441	25098	24231
40°	29873	31250	29873
45°	39457	42014	39609
50°	53352	58878	54089
55°	72926	81934	73339
60°	101611	112978	101999
65°	140134	158166	142579
70°	164659	211552	175863
75°	181160	219920	191224
80°	91617	160298	94344
85°	11856	43473	9139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.8	0.5
10°-20°	175.9	1.8
20°-30°	356.1	3.7
30°-40°	597.1	6.3
40°-50°	1053.2	11.0
50°-60°	1857.2	19.4
60°-70°	2835.4	29.7
70°-80°	2369.3	24.8
80°-90°	257.4	2.7
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°	581.8	6.1
0°-40°	1178.9	12.3
0°-60°	4089.2	42.8
0°-90°	9551.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9551.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	496	496	496	496	496	
5°	510	511	510	508	508	50
15°	611	614	614	608	605	176
25°	764	768	776	762	753	355
35°	930	936	955	934	922	591
45°	1296	1326	1380	1338	1301	1018
55°	1943	2035	2183	2052	1954	1761
65°	2751	2900	3105	2922	2799	2633
75°	2178	2300	2644	2448	2299	2097
85°	48	80	176	70	37	158
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°	496	496	496	496	496	496	496	496	496	496	496
2.5°	500	501	500	500	500	500	500	499	499	499	500
5°	510	511	510	511	511	511	511	510	510	510	510
7.5°	526	526	526	527	526	526	527	526	526	526	526
10°	549	548	548	548	548	548	549	549	549	548	548
12.5°	577	576	577	577	578	578	578	578	578	578	577
15°	611	611	611	612	614	614	613	614	614	614	614
17.5°	649	651	649	650	651	650	652	653	654	653	650
20°	688	689	689	689	689	691	692	692	695	694	693
22.5°	725	727	727	728	728	731	731	731	733	735	733
25°	764	763	763	765	766	770	770	772	775	776	774
27.5°	799	798	798	801	802	807	807	811	813	814	812
30°	836	836	835	838	841	845	847	851	854	855	853
32.5°	880	878	879	881	883	887	890	895	899	900	898
35°	930	927	928	930	933	939	944	947	953	955	951
37.5°	985	986	985	990	995	1002	1008	1012	1018	1021	1018
40°	1063	1060	1063	1068	1076	1085	1097	1100	1106	1112	1105
42.5°	1164	1162	1169	1173	1182	1192	1207	1215	1224	1228	1222
45°	1296	1296	1304	1305	1319	1332	1353	1363	1380	1380	1380
47.5°	1442	1448	1453	1463	1473	1497	1518	1540	1556	1558	1555
50°	1593	1599	1614	1628	1650	1680	1703	1732	1746	1758	1754
52.5°	1760	1761	1779	1797	1829	1862	1899	1929	1954	1965	1956
55°	1943	1945	1961	1980	2016	2054	2100	2131	2163	2183	2168
57.5°	2141	2142	2158	2181	2224	2262	2306	2350	2380	2398	2388
60°	2360	2365	2377	2406	2447	2487	2531	2570	2605	2624	2614
62.5°	2594	2599	2616	2639	2675	2719	2761	2811	2840	2861	2846
65°	2751	2760	2787	2818	2871	2928	2977	3045	3080	3105	3091
67.5°	2761	2766	2799	2846	2917	3003	3103	3209	3278	3311	3287
69°	2693	2700	2732	2785	2864	2964	3083	3215	3321	3370	3347
70°	2616	2631	2666	2724	2801	2906	3029	3170	3294	3361	3344
72.5°	2454	2458	2481	2527	2586	2673	2789	2922	3040	3136	3150
75°	2178	2191	2208	2239	2269	2332	2410	2501	2570	2644	2647
77.5°	1646	1685	1698	1705	1718	1768	1836	1915	1972	1984	1982
80°	739	791	803	860	895	978	1082	1203	1284	1293	1271
82.5°	145	155	181	226	308	357	425	510	588	633	606
85°	48	51	59	65	75	85	103	128	159	176	157
87.5°	19	19	22	24	26	26	26	24	23	19	17
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°
0°	496	496	496	496	496	496	496	496
2.5°	499	499	499	499	499	499	499	499
5°	510	509	509	508	508	508	508	508
7.5°	525	524	523	524	523	523	523	523
10°	548	546	545	544	544	544	543	543
12.5°	575	575	574	573	571	572	571	569
15°	612	610	609	608	606	606	606	605
17.5°	649	647	647	644	643	643	643	644
20°	690	687	685	683	681	682	680	682
22.5°	731	727	725	722	719	719	718	716
25°	771	766	764	761	757	757	755	753
27.5°	809	804	802	796	792	791	789	788
30°	851	845	842	836	830	829	826	826
32.5°	895	889	887	878	873	873	871	869
35°	950	941	939	930	923	923	921	922
37.5°	1015	1008	1001	994	986	985	983	981
40°	1102	1094	1086	1076	1069	1067	1064	1063
42.5°	1218	1210	1194	1186	1179	1173	1172	1171
45°	1366	1356	1345	1330	1321	1308	1306	1301
47.5°	1544	1525	1506	1493	1479	1464	1461	1453
50°	1733	1718	1686	1665	1643	1628	1618	1615
52.5°	1936	1908	1876	1848	1816	1796	1778	1773
55°	2148	2108	2068	2035	2003	1979	1962	1954
57.5°	2360	2316	2272	2236	2209	2178	2161	2157
60°	2581	2539	2494	2458	2425	2398	2388	2369
62.5°	2815	2771	2729	2694	2652	2633	2616	2605
65°	3045	2994	2941	2904	2862	2835	2814	2799
67.5°	3223	3146	3075	3013	2956	2914	2887	2873
69°	3273	3177	3086	3005	2938	2891	2861	2847
70°	3267	3161	3061	2972	2899	2849	2820	2794
72.5°	3082	2985	2874	2777	2711	2663	2634	2620
75°	2630	2565	2485	2410	2362	2334	2298	2299
77.5°	1915	1917	1863	1786	1732	1722	1706	1690
80°	1188	1093	1031	948	887	834	811	761
82.5°	548	428	332	251	193	151	132	108
85°	122	93	77	62	53	49	40	37
87.5°	17	15	14	13	11	8	6	5
90°	0	0	0	0	0	0	0	0

(END OF REPORT)