

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: P148410

Luminaire Tested: **TLM-E06-LED-E1-5XQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P148410  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)  
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-E1-5XQ  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (126) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

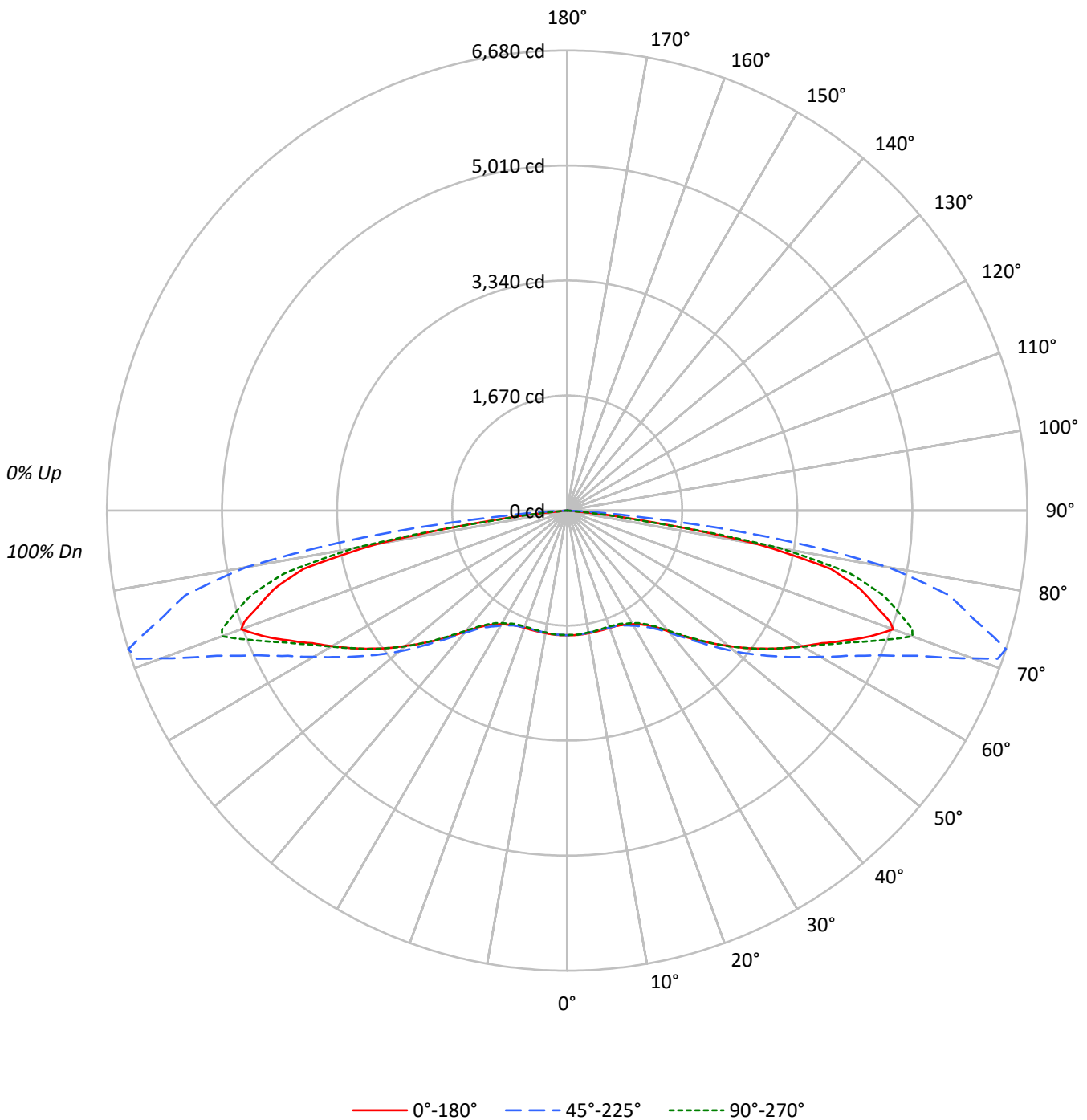
Lumens per Lamp: N/A  
Luminaire Lumens: 19082.3 lumens  
Efficiency: N/A  
Efficacy: 126.8 lumens/watt  
Spacing Criteria (0/90/45): 2.11 / 2.1 / 2.7  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 150.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



TEST NUMBER: P148410

CATALOG NUMBER: TLM-E06-LED-E1-5XQ

### Luminous Intensity Polar Plot





TEST NUMBER: P148410

CATALOG NUMBER: TLM-E06-LED-E1-5XQ

**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	102	95	88	82	99	92	86	80	88	82	78	83	79	75	79	76	73	70
2	88	76	66	57	85	74	64	56	70	62	55	66	59	53	63	57	52	49
3	77	62	51	42	74	60	50	41	57	48	40	54	46	39	51	44	38	36
4	69	53	41	32	66	51	40	31	48	38	31	46	37	30	43	36	30	27
5	62	45	34	25	60	44	33	25	42	32	24	39	31	24	37	30	24	21
6	57	40	29	20	54	39	28	20	37	27	20	35	26	20	33	25	19	17
7	52	35	25	17	50	34	24	17	33	24	17	31	23	17	30	22	16	14
8	48	32	22	15	46	31	21	15	30	21	14	28	20	14	27	20	14	12
9	45	29	19	13	43	28	19	13	27	18	12	26	18	12	25	17	12	10
10	42	26	17	11	40	26	17	11	25	17	11	24	16	11	23	16	11	9

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	19461	19461	19461
5°	19568	19535	19525
10°	19750	19674	19641
15°	20148	20025	19969
20°	20756	20670	20527
25°	21794	21853	21532
30°	23665	23970	23441
35°	26675	27187	26504
40°	32163	32536	31896
45°	40340	41047	40187
50°	51158	53251	51275
55°	65588	69154	65720
60°	84734	91396	85056
65°	113620	126482	115275
70°	158491	197468	167932
75°	183364	254377	197629
80°	174493	293012	193585
85°	14203	118809	9263



TEST NUMBER: P148410

CATALOG NUMBER: TLM-E06-LED-E1-5XQ

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.3	0.9
10°-20°	509.7	2.7
20°-30°	853.5	4.5
30°-40°	1301.2	6.8
40°-50°	2077.7	10.9
50°-60°	3194.7	16.7
60°-70°	4651.5	24.4
70°-80°	5239.9	27.5
80°-90°	1081.7	5.7
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°	1535.6	8.0
0°-40°	2836.8	14.9
0°-60°	8109.2	42.5
0°-90°	19082.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19082.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1808	1808	1808	1808	1808	
5°	1811	1810	1808	1807	1807	173
15°	1808	1803	1797	1790	1792	513
25°	1835	1838	1840	1822	1813	855
35°	2030	2045	2069	2033	2017	1296
45°	2650	2649	2696	2653	2640	2067
55°	3495	3505	3685	3521	3502	3145
65°	4461	4479	4966	4544	4526	4445
75°	4409	4688	6116	5075	4752	4491
85°	115	303	962	244	75	716
90°	0	0	0	0	0	



TEST NUMBER: P148410

CATALOG NUMBER: TLM-E06-LED-E1-5XQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1808	1808	1808	1808	1808	1808	1808	1808	1808	1808	1808
2.5°	1811	1812	1812	1811	1811	1811	1810	1809	1806	1808	1811
5°	1811	1810	1810	1809	1809	1811	1809	1808	1807	1808	1807
7.5°	1810	1808	1807	1807	1807	1808	1806	1804	1806	1804	1802
10°	1807	1806	1806	1804	1805	1804	1802	1801	1802	1800	1798
12.5°	1808	1806	1805	1804	1804	1803	1801	1798	1799	1798	1795
15°	1808	1807	1806	1804	1804	1803	1800	1799	1799	1797	1794
17.5°	1809	1808	1808	1806	1805	1804	1801	1799	1801	1798	1796
20°	1812	1811	1812	1810	1808	1808	1806	1805	1805	1805	1799
22.5°	1818	1818	1819	1819	1818	1819	1817	1817	1817	1817	1813
25°	1835	1835	1836	1836	1836	1840	1838	1838	1840	1840	1836
27.5°	1867	1866	1867	1868	1871	1875	1874	1876	1880	1879	1875
30°	1904	1903	1906	1909	1911	1918	1915	1922	1926	1929	1926
32.5°	1958	1958	1963	1965	1969	1976	1977	1983	1988	1993	1989
35°	2030	2029	2033	2036	2042	2048	2051	2059	2066	2069	2063
37.5°	2140	2135	2141	2143	2148	2149	2156	2166	2174	2173	2168
40°	2289	2288	2286	2283	2290	2292	2292	2306	2318	2316	2315
42.5°	2463	2459	2456	2456	2460	2461	2476	2486	2495	2497	2495
45°	2650	2646	2647	2645	2646	2653	2662	2680	2696	2697	2688
47.5°	2851	2837	2848	2833	2842	2847	2870	2897	2925	2930	2922
50°	3055	3054	3053	3050	3054	3065	3093	3135	3162	3180	3168
52.5°	3278	3271	3267	3262	3267	3288	3327	3364	3412	3433	3416
55°	3495	3493	3480	3479	3489	3522	3564	3610	3662	3685	3679
57.5°	3718	3704	3700	3694	3713	3744	3796	3878	3932	3958	3943
60°	3936	3925	3917	3915	3928	3972	4046	4144	4212	4246	4222
62.5°	4170	4163	4153	4142	4169	4226	4318	4427	4526	4568	4532
65°	4461	4447	4436	4421	4444	4515	4630	4784	4917	4966	4940
67.5°	4768	4755	4756	4747	4787	4885	5034	5243	5422	5505	5456
70°	5036	5044	5046	5082	5151	5301	5549	5876	6147	6275	6222
71°	4957	4974	4999	5037	5156	5334	5672	6068	6392	6608	6535
72.5°	4733	4743	4756	4814	4949	5184	5532	5984	6401	6680	6596
75°	4409	4419	4423	4464	4586	4791	5110	5511	5879	6117	6093
77.5°	3920	3922	3957	4019	4157	4391	4727	5143	5489	5674	5556
80°	2815	2796	2832	2913	3083	3352	3696	4171	4554	4727	4545
82.5°	1071	1129	1221	1354	1411	1710	2031	2310	2633	2994	2904
85°	115	130	163	202	255	352	487	664	819	962	854
87.5°	43	44	49	57	58	60	64	75	70	60	49
90°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P148410

CATALOG NUMBER: TLM-E06-LED-E1-5XQ

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1808	1808	1808	1808	1808	1808	1808	1808
2.5°	1808	1809	1808	1809	1809	1807	1807	1806
5°	1808	1806	1807	1807	1807	1808	1806	1807
7.5°	1805	1802	1803	1803	1802	1804	1803	1802
10°	1800	1796	1798	1797	1797	1797	1797	1797
12.5°	1796	1793	1794	1793	1793	1794	1794	1794
15°	1795	1791	1790	1789	1790	1791	1791	1792
17.5°	1794	1789	1788	1787	1788	1790	1790	1789
20°	1797	1793	1792	1791	1790	1793	1792	1792
22.5°	1811	1806	1805	1801	1800	1801	1800	1800
25°	1833	1827	1825	1820	1816	1816	1814	1813
27.5°	1874	1865	1863	1858	1853	1854	1851	1850
30°	1921	1913	1906	1899	1893	1890	1887	1886
32.5°	1982	1973	1965	1957	1948	1944	1938	1935
35°	2058	2046	2036	2030	2021	2017	2013	2017
37.5°	2163	2149	2144	2137	2131	2124	2126	2124
40°	2309	2296	2291	2280	2278	2270	2275	2270
42.5°	2490	2466	2462	2453	2450	2446	2448	2444
45°	2686	2665	2661	2646	2647	2636	2640	2640
47.5°	2907	2885	2866	2856	2852	2845	2849	2848
50°	3135	3105	3084	3064	3055	3057	3050	3062
52.5°	3380	3335	3306	3286	3269	3273	3274	3277
55°	3634	3576	3534	3508	3493	3494	3498	3502
57.5°	3889	3816	3759	3721	3711	3716	3716	3715
60°	4153	4066	3993	3950	3941	3938	3958	3951
62.5°	4437	4333	4257	4202	4189	4198	4215	4211
65°	4814	4669	4571	4517	4495	4504	4527	4526
67.5°	5299	5097	4968	4898	4882	4893	4906	4918
70°	6025	5737	5552	5400	5335	5323	5336	5336
71°	6281	5949	5655	5470	5363	5318	5322	5299
72.5°	6270	5862	5517	5324	5176	5140	5122	5095
75°	5848	5480	5181	4970	4827	4785	4754	4752
77.5°	5303	5032	4702	4479	4305	4235	4203	4202
80°	4263	3857	3616	3481	3272	3211	3147	3123
82.5°	2578	2015	1638	1456	1355	1116	1001	947
85°	601	427	294	193	139	111	85	75
87.5°	41	32	29	23	18	17	11	9
90°	0	0	0	0	0	0	0	0

(END OF REPORT)