

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: P147890

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P147890  
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-E06-LED-E1-5WQ  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (126) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

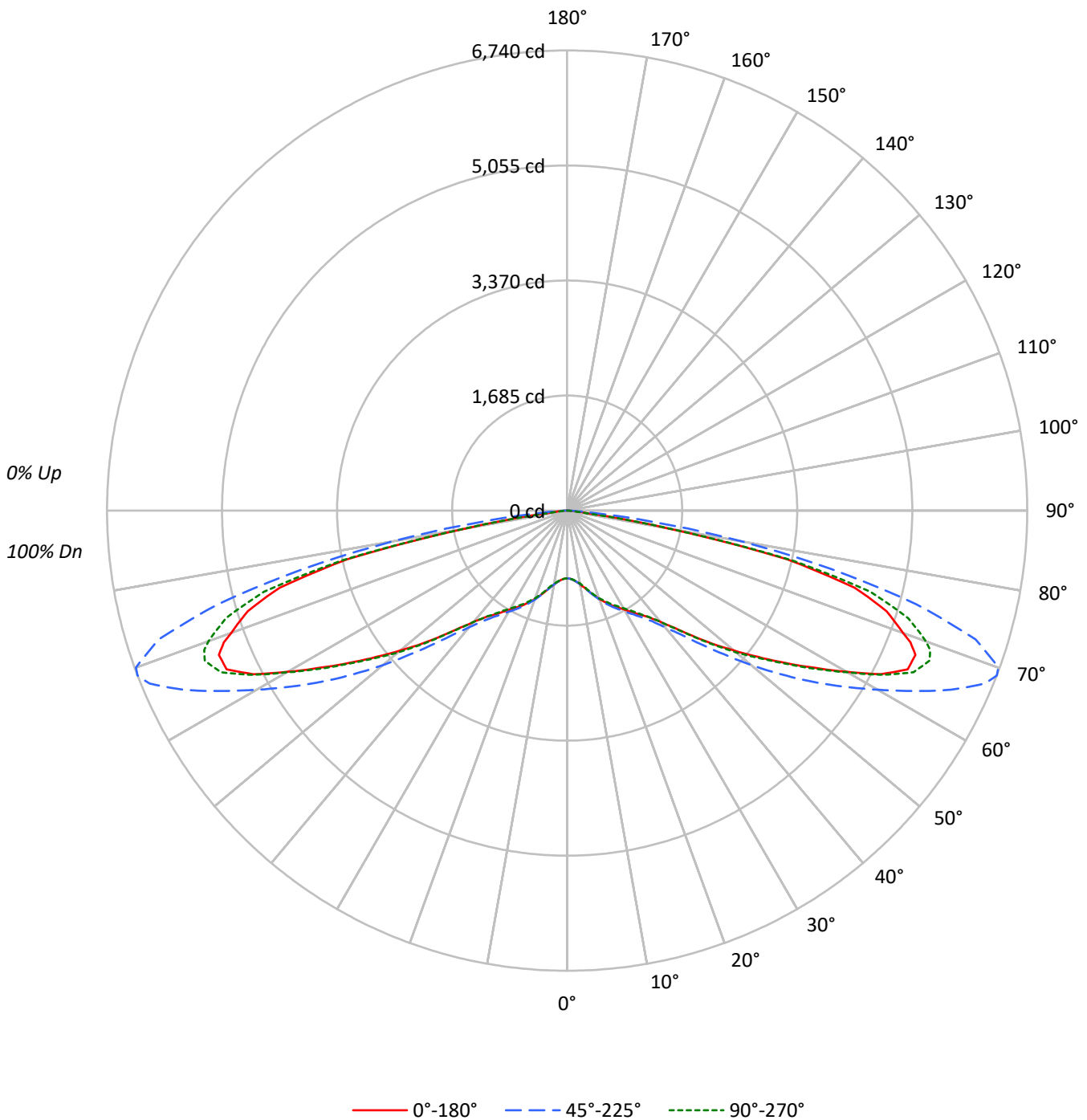
Lumens per Lamp: N/A  
Luminaire Lumens: 19102.8 lumens  
Efficiency: N/A  
Efficacy: 126.9 lumens/watt  
Spacing Criteria (0/90/45): 3.9 / 3.92 / 3.98  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
CIE Type: Direct

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: P147890  
CATALOG NUMBER: TLM-E06-LED-E1-5WQ

### Luminous Intensity Polar Plot





TEST NUMBER: P147890

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

**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



TEST NUMBER: P147890

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.6	0.5
10°-20°	351.7	1.8
20°-30°	712.2	3.7
30°-40°	1194.1	6.3
40°-50°	2106.3	11.0
50°-60°	3714.4	19.4
60°-70°	5670.8	29.7
70°-80°	4738.6	24.8
80°-90°	514.9	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°	1163.6	6.1
0°-40°	2357.7	12.3
0°-60°	8178.4	42.8
0°-90°	19102.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19102.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	992	992	992	992	992	
5°	1020	1022	1020	1017	1016	100
15°	1222	1228	1228	1217	1210	352
25°	1528	1536	1552	1525	1506	710
35°	1860	1872	1910	1869	1844	1182
45°	2592	2651	2760	2675	2602	2037
55°	3886	4070	4366	4103	3908	3521
65°	5502	5799	6210	5845	5598	5266
75°	4356	4601	5288	4895	4598	4195
85°	96	160	352	139	74	316
90°	0	0	0	0	0	



TEST NUMBER: P147890

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

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	992	992	992	992	992	992	992	992	992	992	992
2.5°	1000	1002	1000	1000	1000	1000	1000	998	998	998	1000
5°	1020	1022	1020	1022	1022	1022	1022	1020	1020	1020	1020
7.5°	1052	1052	1052	1054	1052	1052	1054	1052	1052	1052	1052
10°	1098	1096	1096	1096	1096	1096	1098	1098	1098	1096	1096
12.5°	1154	1152	1154	1154	1156	1156	1156	1156	1156	1156	1154
15°	1222	1222	1222	1224	1228	1228	1226	1228	1228	1228	1228
17.5°	1298	1302	1298	1300	1302	1300	1304	1306	1308	1306	1300
20°	1376	1378	1378	1378	1378	1382	1384	1384	1390	1388	1386
22.5°	1450	1454	1454	1456	1456	1462	1462	1462	1466	1470	1466
25°	1528	1526	1526	1530	1532	1540	1540	1544	1550	1552	1548
27.5°	1598	1596	1596	1602	1604	1614	1614	1622	1626	1628	1624
30°	1672	1672	1670	1676	1682	1690	1694	1702	1708	1710	1706
32.5°	1760	1756	1758	1762	1766	1774	1780	1790	1798	1800	1796
35°	1860	1854	1856	1860	1866	1878	1888	1894	1906	1910	1902
37.5°	1970	1972	1970	1980	1990	2004	2016	2024	2036	2042	2036
40°	2126	2120	2126	2136	2152	2170	2194	2200	2212	2224	2210
42.5°	2328	2324	2338	2346	2364	2384	2414	2430	2448	2456	2444
45°	2592	2592	2608	2610	2638	2664	2706	2726	2760	2760	2760
47.5°	2884	2896	2906	2926	2946	2994	3036	3080	3112	3116	3110
50°	3186	3198	3228	3256	3300	3360	3406	3464	3492	3516	3508
52.5°	3520	3522	3558	3594	3658	3724	3798	3858	3908	3930	3912
55°	3886	3890	3922	3960	4032	4108	4200	4262	4326	4366	4336
57.5°	4282	4284	4316	4362	4448	4524	4612	4700	4760	4796	4776
60°	4720	4730	4754	4812	4894	4974	5062	5140	5210	5248	5228
62.5°	5188	5198	5232	5278	5350	5438	5522	5622	5680	5722	5692
65°	5502	5520	5574	5636	5742	5856	5954	6090	6160	6210	6182
67.5°	5522	5532	5598	5692	5834	6006	6206	6418	6556	6622	6574
69°	5386	5400	5464	5570	5728	5928	6166	6430	6642	6740	6694
70°	5232	5262	5332	5448	5602	5812	6058	6340	6588	6722	6688
72.5°	4908	4916	4962	5054	5172	5346	5578	5844	6080	6272	6300
75°	4356	4382	4416	4478	4538	4664	4820	5002	5140	5288	5294
77.5°	3292	3370	3396	3410	3436	3536	3672	3830	3944	3968	3964
80°	1478	1582	1606	1720	1790	1956	2164	2406	2568	2586	2542
82.5°	290	310	362	452	616	714	850	1020	1176	1266	1212
85°	96	102	118	130	150	170	206	256	318	352	314
87.5°	38	38	44	48	52	52	52	48	46	38	34
90°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P147890

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

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	992	992	992	992	992	992	992	992
2.5°	998	998	998	998	998	998	998	998
5°	1020	1018	1018	1016	1016	1016	1016	1016
7.5°	1050	1048	1046	1048	1046	1046	1046	1046
10°	1096	1092	1090	1088	1088	1088	1086	1086
12.5°	1150	1150	1148	1146	1142	1144	1142	1138
15°	1224	1220	1218	1216	1212	1212	1212	1210
17.5°	1298	1294	1294	1288	1286	1286	1286	1288
20°	1380	1374	1370	1366	1362	1364	1360	1364
22.5°	1462	1454	1450	1444	1438	1438	1436	1432
25°	1542	1532	1528	1522	1514	1514	1510	1506
27.5°	1618	1608	1604	1592	1584	1582	1578	1576
30°	1702	1690	1684	1672	1660	1658	1652	1652
32.5°	1790	1778	1774	1756	1746	1746	1742	1738
35°	1900	1882	1878	1860	1846	1846	1842	1844
37.5°	2030	2016	2002	1988	1972	1970	1966	1962
40°	2204	2188	2172	2152	2138	2134	2128	2126
42.5°	2436	2420	2388	2372	2358	2346	2344	2342
45°	2732	2712	2690	2660	2642	2616	2612	2602
47.5°	3088	3050	3012	2986	2958	2928	2922	2906
50°	3466	3436	3372	3330	3286	3256	3236	3230
52.5°	3872	3816	3752	3696	3632	3592	3556	3546
55°	4296	4216	4136	4070	4006	3958	3924	3908
57.5°	4720	4632	4544	4472	4418	4356	4322	4314
60°	5162	5078	4988	4916	4850	4796	4776	4738
62.5°	5630	5542	5458	5388	5304	5266	5232	5210
65°	6090	5988	5882	5808	5724	5670	5628	5598
67.5°	6446	6292	6150	6026	5912	5828	5774	5746
69°	6546	6354	6172	6010	5876	5782	5722	5694
70°	6534	6322	6122	5944	5798	5698	5640	5588
72.5°	6164	5970	5748	5554	5422	5326	5268	5240
75°	5260	5130	4970	4820	4724	4668	4596	4598
77.5°	3830	3834	3726	3572	3464	3444	3412	3380
80°	2376	2186	2062	1896	1774	1668	1622	1522
82.5°	1096	856	664	502	386	302	264	216
85°	244	186	154	124	106	98	80	74
87.5°	34	30	28	26	22	16	12	10
90°	0	0	0	0	0	0	0	0

(END OF REPORT)