

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: P156660

Luminaire Tested: **TLM-E06-LED-E1-T4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P156660
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
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-T4
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (126) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

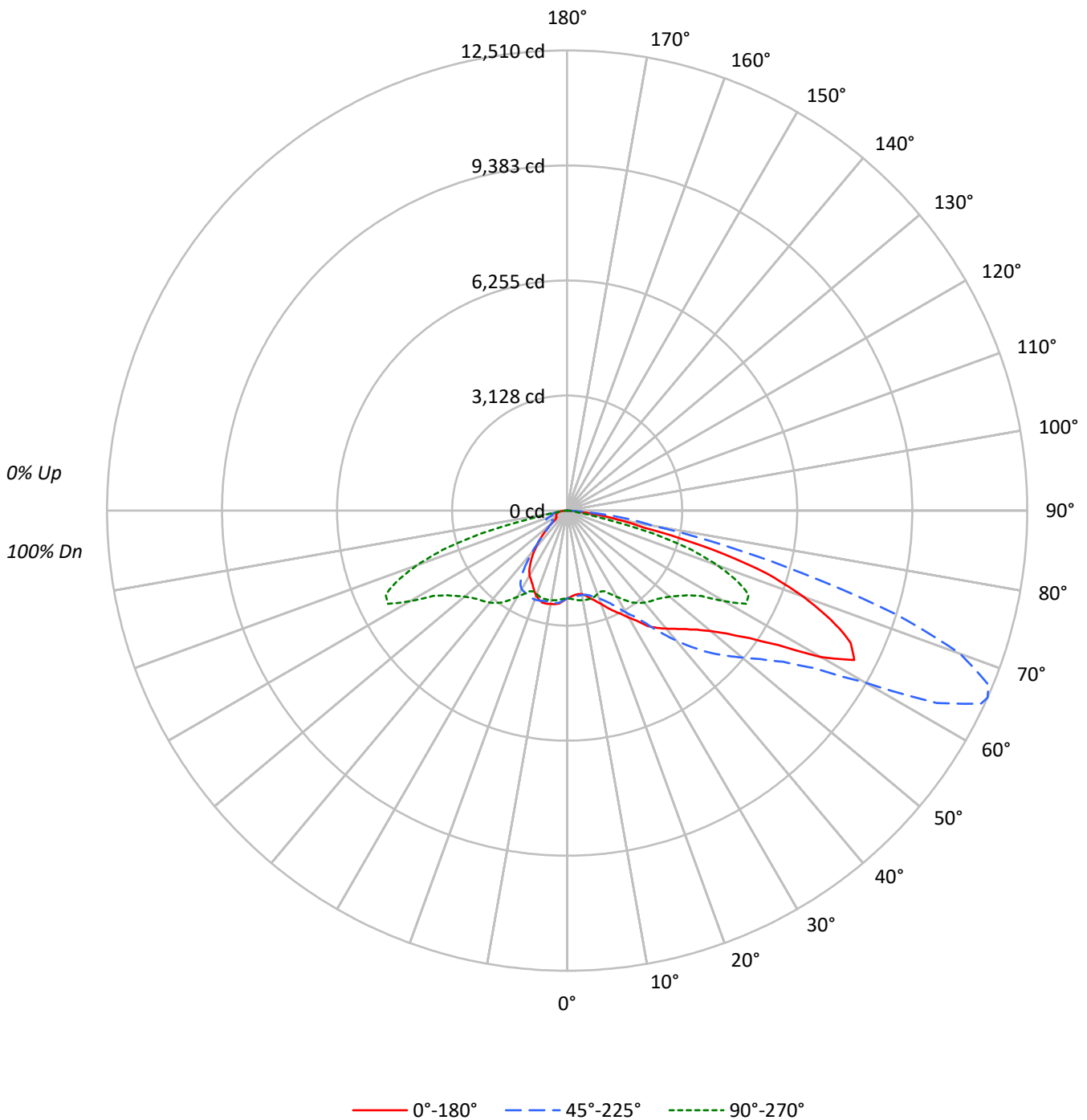
Lumens per Lamp: N/A
Luminaire Lumens: 18132.2 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.73 / 2.02 / 2.64
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

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



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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	105	99	93	88	102	96	91	87	92	88	84	88	84	81	84	81	79	76					76			
2	92	81	72	65	89	79	71	64	76	69	62	72	66	61	69	64	59	57					57			
3	82	68	58	49	79	66	57	49	63	55	48	60	53	47	57	51	46	43					43			
4	73	58	47	39	70	57	46	38	54	45	38	51	43	37	49	42	36	34					34			
5	66	50	39	31	64	49	39	31	47	38	31	45	36	30	42	35	30	27					27			
6	60	44	34	26	58	43	33	26	41	32	25	39	31	25	38	30	25	22					22			
7	55	39	29	22	53	38	29	22	37	28	22	35	27	21	34	27	21	19					19			
8	51	35	26	19	49	35	25	19	33	25	19	32	24	18	31	23	18	16					16			
9	47	32	23	16	46	31	23	16	30	22	16	29	22	16	28	21	16	14					14			
10	44	29	21	15	43	29	20	15	28	20	14	27	19	14	26	19	14	12					12			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	25726	25726	25726
5°	24895	26278	27402
10°	25183	27063	28177
15°	27592	27614	28907
20°	30928	27675	28179
25°	35796	28765	26390
30°	41762	33683	25380
35°	50380	39999	22838
40°	58875	45920	18857
45°	69384	51970	14340
50°	85302	60954	9177
55°	113461	75215	6868
60°	171318	106003	7233
65°	216644	138555	8354
70°	214888	136901	9945
75°	170430	101393	12227
80°	86410	21323	15249
85°	12597	17537	19513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.1	1.3
10°-20°	704.6	3.9
20°-30°	1213.7	6.7
30°-40°	1836.3	10.1
40°-50°	2380.0	13.1
50°-60°	3281.3	18.1
60°-70°	5098.1	28.1
70°-80°	2964.6	16.3
80°-90°	421.6	2.3
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°	2150.4	11.9
0°-40°	3986.7	22.0
0°-60°	9648.0	53.2
0°-90°	18132.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18132.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2390	2390	2390	2390	2390	
5°	2304	2338	2432	2512	2536	220
15°	2476	2390	2478	2542	2594	709
25°	3014	2786	2422	2532	2222	1405
35°	3834	3746	3044	2148	1738	2396
45°	4558	5456	3414	900	942	3563
55°	6046	7162	4008	464	366	5600
65°	8506	12418	5440	656	328	8050
75°	4098	6676	2438	412	294	4220
85°	102	696	142	168	158	441
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390
2.5°	2346	2354	2348	2350	2350	2352	2352	2354	2352	2358	2362
5°	2304	2308	2306	2310	2314	2322	2320	2330	2332	2338	2348
7.5°	2288	2284	2286	2292	2296	2300	2304	2312	2318	2332	2340
10°	2304	2302	2304	2308	2308	2310	2306	2314	2318	2330	2338
12.5°	2370	2370	2366	2366	2362	2358	2348	2342	2340	2342	2346
15°	2476	2472	2464	2458	2450	2436	2422	2410	2402	2390	2386
17.5°	2580	2574	2566	2558	2548	2534	2512	2498	2476	2462	2454
20°	2700	2688	2678	2668	2648	2644	2622	2598	2572	2540	2536
22.5°	2856	2836	2824	2818	2798	2792	2756	2722	2690	2648	2638
25°	3014	2994	2988	2980	2966	2958	2924	2886	2844	2786	2774
27.5°	3168	3170	3154	3160	3156	3142	3108	3070	3038	2970	2956
30°	3360	3348	3340	3352	3338	3340	3310	3290	3238	3198	3170
32.5°	3560	3558	3570	3578	3576	3572	3548	3528	3482	3424	3412
35°	3834	3846	3856	3892	3892	3918	3894	3870	3816	3746	3722
37.5°	4020	4024	4064	4112	4172	4228	4244	4250	4228	4176	4140
40°	4190	4198	4262	4336	4424	4534	4600	4630	4636	4612	4534
42.5°	4360	4372	4438	4546	4668	4808	4924	4998	5040	5040	4994
45°	4558	4574	4646	4764	4906	5082	5242	5384	5452	5456	5412
47.5°	4792	4806	4890	5010	5156	5334	5536	5698	5824	5832	5796
50°	5094	5114	5184	5292	5442	5622	5824	6050	6182	6214	6176
52.5°	5494	5498	5556	5656	5802	5974	6188	6434	6608	6634	6572
55°	6046	6040	6078	6186	6296	6430	6652	6928	7122	7162	7098
57.5°	6796	6790	6822	6848	7054	7184	7402	7666	7854	7970	7860
60°	7958	7952	8004	8156	8310	8500	8712	9028	9292	9326	9218
62.5°	8800	8830	8944	9122	9434	9806	10194	10610	11152	11324	11272
65°	8506	8566	8724	8994	9410	9924	10532	11286	12012	12418	12406
66°	8242	8308	8502	8762	9202	9764	10428	11250	12062	12510	12538
67.5°	7762	7836	8026	8334	8762	9360	10074	10968	11886	12408	12482
70°	6828	6912	7050	7304	7726	8260	9012	9812	10774	11372	11462
72.5°	5708	5782	5936	6144	6490	6826	7416	8006	8694	9376	9310
75°	4098	4130	4222	4448	4634	4936	5410	5894	6364	6676	6720
77.5°	2130	2214	2344	2594	2796	3068	3376	3740	4084	4370	4292
80°	1394	1430	1546	1674	1822	1996	2202	2338	2382	2364	2382
82.5°	804	870	1024	1122	1232	1292	1456	1612	1700	1590	1550
85°	102	132	416	524	600	690	740	834	778	696	848
87.5°	22	20	28	60	62	52	98	104	64	32	40
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390
2.5°	2366	2368	2372	2378	2382	2386	2390	2396	2400	2404	2412
5°	2356	2364	2372	2380	2390	2406	2416	2424	2432	2448	2454
7.5°	2350	2364	2376	2390	2406	2420	2438	2448	2460	2470	2482
10°	2346	2366	2378	2398	2416	2430	2450	2462	2476	2488	2494
12.5°	2354	2364	2376	2396	2418	2438	2460	2470	2482	2492	2494
15°	2388	2388	2390	2406	2428	2444	2462	2472	2478	2484	2484
17.5°	2450	2436	2426	2428	2442	2452	2462	2462	2458	2456	2452
20°	2522	2504	2484	2470	2466	2458	2452	2432	2416	2402	2392
22.5°	2626	2598	2570	2544	2520	2490	2456	2416	2378	2352	2336
25°	2754	2732	2698	2658	2628	2572	2528	2470	2422	2388	2360
27.5°	2936	2910	2878	2842	2798	2736	2682	2614	2556	2506	2470
30°	3162	3128	3104	3060	3030	2960	2906	2822	2710	2630	2580
32.5°	3394	3356	3336	3302	3268	3226	3144	3014	2870	2740	2654
35°	3704	3664	3628	3598	3548	3470	3398	3242	3044	2862	2718
37.5°	4094	4028	3938	3862	3774	3662	3552	3392	3166	2930	2738
40°	4510	4394	4266	4124	3972	3810	3684	3522	3268	2988	2724
42.5°	4944	4760	4582	4382	4170	3978	3814	3636	3344	3004	2668
45°	5374	5168	4898	4636	4368	4130	3946	3746	3414	3010	2594
47.5°	5730	5518	5210	4882	4564	4294	4078	3862	3508	3052	2576
50°	6106	5848	5506	5118	4758	4456	4226	4002	3640	3160	2634
52.5°	6516	6220	5820	5386	4992	4654	4404	4174	3808	3312	2744
55°	7016	6654	6220	5730	5308	4934	4658	4386	4008	3492	2882
57.5°	7780	7336	6848	6290	5822	5380	5050	4736	4318	3760	3070
60°	9162	8688	8054	7378	6828	6312	5828	5438	4924	4288	3486
62.5°	11142	10512	9666	8720	8000	7256	6710	6130	5492	4806	3976
65°	12242	11478	10346	9248	8322	7514	6820	6148	5440	4784	4090
66°	12378	11582	10406	9250	8278	7448	6718	6022	5298	4672	4042
67.5°	12322	11508	10296	9076	8088	7196	6442	5720	4998	4414	3882
70°	11404	10632	9442	8260	7322	6442	5722	5012	4350	3850	3458
72.5°	9470	8810	7776	6848	6112	5386	4776	4098	3538	3168	2936
75°	6836	6436	5494	4962	4316	3834	3242	2840	2438	2258	2218
77.5°	4318	3780	3182	2620	2154	1786	1390	1180	984	964	1164
80°	2186	1968	1516	1208	1016	822	650	492	344	414	496
82.5°	1432	1194	936	770	670	556	432	300	220	248	340
85°	774	660	532	420	340	304	204	144	142	152	194
87.5°	56	56	44	40	48	40	36	36	34	36	48
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390	2390
2.5°	2416	2422	2424	2434	2440	2444	2448	2448	2450	2456	2458
5°	2462	2472	2484	2492	2496	2508	2512	2512	2516	2524	2530
7.5°	2490	2504	2516	2520	2528	2532	2538	2542	2542	2550	2554
10°	2500	2508	2520	2520	2528	2528	2534	2536	2536	2544	2550
12.5°	2500	2504	2514	2514	2520	2522	2530	2536	2538	2548	2556
15°	2488	2492	2500	2502	2516	2524	2542	2554	2554	2564	2568
17.5°	2454	2464	2480	2496	2522	2540	2562	2572	2564	2558	2552
20°	2398	2416	2454	2494	2540	2564	2576	2566	2538	2510	2492
22.5°	2342	2378	2442	2502	2554	2570	2564	2528	2482	2448	2424
25°	2368	2410	2472	2526	2560	2556	2532	2482	2432	2388	2348
27.5°	2476	2522	2556	2574	2570	2542	2504	2448	2388	2330	2274
30°	2578	2602	2610	2596	2564	2518	2470	2406	2326	2254	2190
32.5°	2624	2600	2562	2524	2472	2432	2366	2296	2196	2110	2046
35°	2624	2528	2432	2352	2274	2224	2148	2054	1962	1890	1840
37.5°	2566	2382	2224	2094	1996	1942	1828	1744	1666	1642	1610
40°	2460	2188	1960	1790	1666	1586	1472	1414	1384	1372	1366
42.5°	2318	1972	1668	1458	1324	1234	1158	1122	1120	1118	1118
45°	2166	1740	1384	1134	1016	936	900	886	898	896	898
47.5°	2072	1564	1124	858	768	716	698	704	714	710	710
50°	2060	1474	950	668	600	574	570	570	576	572	570
52.5°	2104	1460	860	574	520	498	494	492	490	478	468
55°	2180	1492	834	550	494	470	464	460	452	436	418
57.5°	2332	1592	858	562	502	482	476	476	460	434	408
60°	2698	1846	956	608	540	520	524	522	498	460	420
62.5°	3170	2178	1084	672	588	584	604	600	560	502	444
65°	3388	2334	1120	686	598	616	656	652	602	522	448
66°	3392	2334	1104	674	584	606	646	644	594	514	440
67.5°	3310	2270	1058	650	556	572	608	606	560	494	424
70°	3002	2032	940	608	518	510	522	514	484	438	390
72.5°	2572	1706	820	576	492	460	452	446	422	396	366
75°	2026	1350	720	552	468	426	412	404	388	370	346
77.5°	1250	966	628	520	450	408	398	386	362	340	322
80°	558	598	516	454	402	364	348	330	306	292	282
82.5°	372	386	374	340	304	274	250	250	246	234	230
85°	238	240	232	210	196	178	168	170	178	176	174
87.5°	54	54	64	60	70	74	80	86	98	98	104
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	2390	2390	2390	2390	2390
2.5°	2460	2464	2468	2462	2464
5°	2530	2528	2538	2532	2536
7.5°	2552	2554	2562	2562	2564
10°	2554	2558	2568	2574	2578
12.5°	2564	2572	2588	2592	2592
15°	2572	2576	2586	2590	2594
17.5°	2544	2536	2540	2542	2540
20°	2474	2466	2464	2456	2460
22.5°	2398	2376	2362	2346	2346
25°	2306	2272	2244	2216	2222
27.5°	2220	2176	2148	2130	2126
30°	2136	2090	2064	2042	2042
32.5°	1996	1964	1930	1916	1914
35°	1802	1782	1754	1748	1738
37.5°	1584	1578	1554	1552	1542
40°	1356	1360	1352	1348	1342
42.5°	1128	1148	1144	1142	1138
45°	910	924	926	932	942
47.5°	716	720	724	722	724
50°	560	550	548	542	548
52.5°	452	436	428	420	416
55°	398	382	374	370	366
57.5°	384	368	356	348	346
60°	388	364	348	338	336
62.5°	398	366	344	334	332
65°	396	362	342	330	328
66°	390	358	338	328	326
67.5°	380	352	334	326	322
70°	362	344	330	320	316
72.5°	346	332	320	310	308
75°	328	316	304	296	294
77.5°	306	294	286	280	278
80°	270	262	254	246	246
82.5°	224	218	210	204	202
85°	172	172	166	160	158
87.5°	102	100	100	94	94
90°	0	0	0	0	0

(END OF REPORT)