

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: P150690

Luminaire Tested: **TLM-E06-LED-E1-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P150690
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
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-SL3-HSS
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 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: 10402.9 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 4.23 / 3.52 / 4.34
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

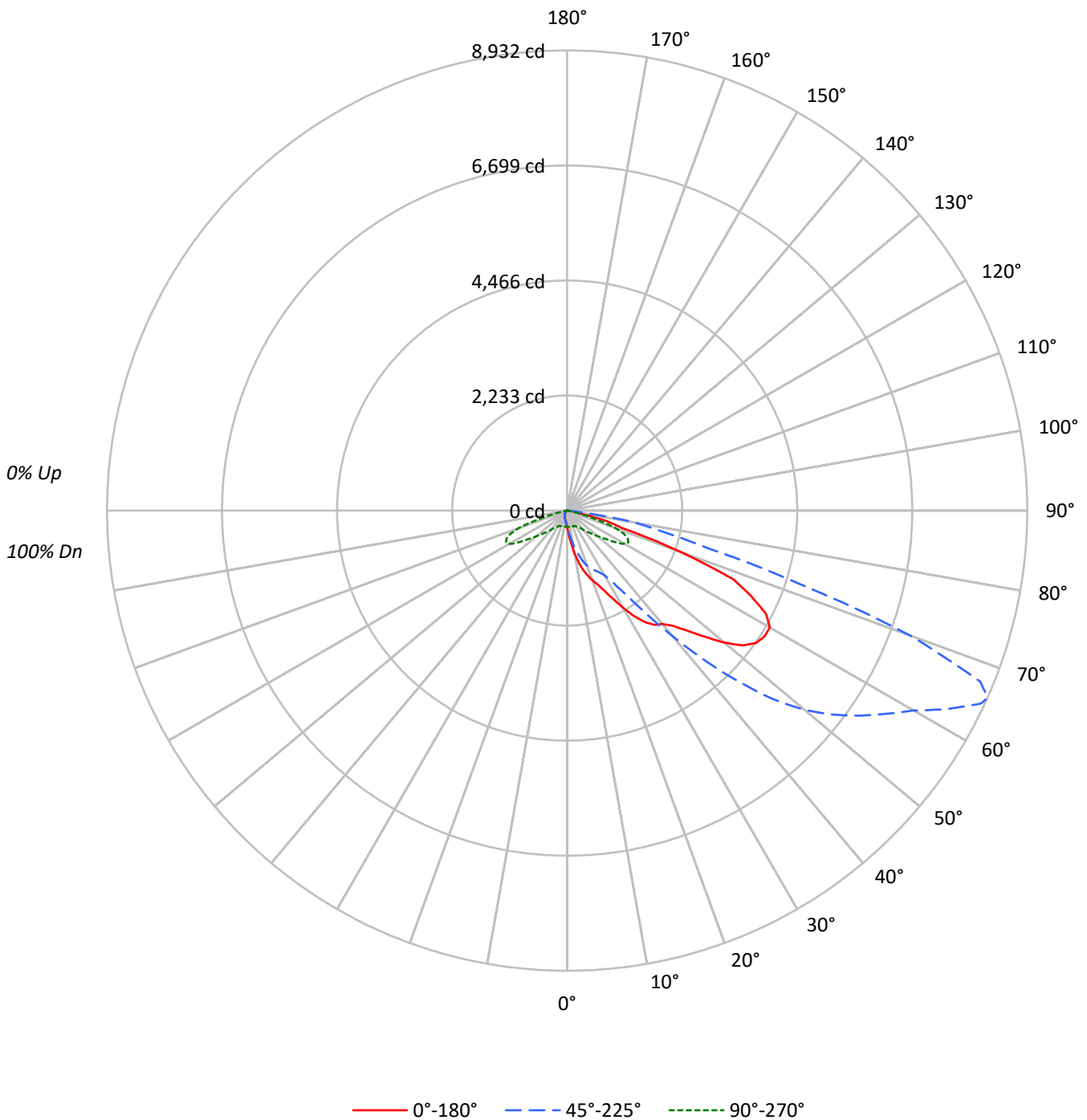
Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	98	93	87	102	96	91	86	92	87	83	88	84	81	84	81	78	76					76			
2	91	80	71	63	88	78	69	62	74	67	61	71	64	59	67	62	58	55					55			
3	80	66	55	46	77	64	54	46	61	52	45	58	50	44	55	48	43	40					40			
4	71	55	43	35	68	53	43	34	51	41	34	48	40	33	45	38	32	30					30			
5	63	47	35	27	61	45	34	26	43	33	26	41	32	26	39	31	25	23					23			
6	57	40	29	21	55	39	29	21	37	28	21	35	27	20	33	26	20	17					17			
7	52	35	24	17	50	34	24	17	33	23	17	31	23	16	29	22	16	14					14			
8	48	31	21	14	46	30	21	14	29	20	14	28	19	13	26	19	13	11					11			
9	44	28	18	12	42	27	18	12	26	17	11	25	17	11	24	16	11	9					9			
10	41	25	16	10	39	25	16	10	24	15	10	23	15	10	22	15	10	7					7			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	3380	3380	3380
5°	5662	3404	2485
10°	9290	3432	2077
15°	13261	3577	1761
20°	16495	3700	1512
25°	20404	3919	1283
30°	27120	4387	1094
35°	34796	5190	920
40°	40355	6829	731
45°	50112	9225	548
50°	66748	12861	536
55°	84073	18804	601
60°	97779	27900	646
65°	100503	33136	713
70°	73455	31818	818
75°	33105	13849	1081
80°	5951	3471	1612
85°	494	3088	2964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.2	0.3
10°-20°	149.0	1.4
20°-30°	321.5	3.1
30°-40°	686.5	6.6
40°-50°	1518.2	14.6
50°-60°	2572.8	24.7
60°-70°	3433.2	33.0
70°-80°	1512.3	14.5
80°-90°	174.2	1.7
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°	505.7	4.9
0°-40°	1192.2	11.5
0°-60°	5283.2	50.8
0°-90°	10402.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10402.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	314	314	314	314	314	
5°	524	444	315	238	230	60
15°	1190	908	321	170	158	340
25°	1718	1282	330	124	108	823
35°	2648	1984	395	84	70	1642
45°	3292	4670	606	50	36	2602
55°	4480	6940	1002	24	32	3948
65°	3946	8860	1301	18	28	3767
75°	796	2836	333	14	26	878
85°	4	60	25	12	24	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	314	314	314	314	314	314	314	314	314	314	314
2.5°	396	394	386	386	374	366	356	346	346	344	342
5°	524	512	510	488	470	444	420	388	384	380	378
7.5°	666	664	646	620	584	536	488	436	428	424	416
10°	850	840	816	772	718	654	576	494	484	476	472
12.5°	1026	1008	994	938	870	776	682	564	556	546	530
15°	1190	1174	1150	1102	1026	908	798	654	634	620	608
17.5°	1318	1308	1280	1226	1144	1040	908	746	730	712	690
20°	1440	1426	1382	1308	1220	1140	1038	866	844	822	798
22.5°	1556	1542	1470	1348	1254	1220	1184	1002	968	950	926
25°	1718	1688	1576	1382	1256	1282	1344	1178	1146	1120	1082
27.5°	1936	1896	1720	1432	1264	1350	1528	1392	1358	1328	1286
30°	2182	2156	1946	1552	1322	1450	1734	1664	1624	1588	1538
32.5°	2430	2394	2186	1780	1478	1644	1992	1980	1928	1894	1840
35°	2648	2630	2476	2154	1834	1984	2336	2350	2304	2268	2208
37.5°	2796	2796	2766	2556	2400	2512	2842	2844	2798	2716	2686
40°	2872	2894	3002	3042	3034	3178	3506	3470	3432	3390	3290
42.5°	3028	3048	3278	3554	3734	3924	4150	4138	4092	4016	3924
45°	3292	3318	3592	4030	4400	4670	4814	4758	4712	4640	4592
47.5°	3628	3678	3988	4530	4976	5422	5572	5424	5384	5328	5250
50°	3986	4034	4364	4984	5488	6020	6270	6020	5962	5944	5856
52.5°	4296	4336	4654	5334	5880	6504	6868	6538	6496	6436	6372
55°	4480	4512	4810	5502	6146	6940	7446	7156	7094	7070	6978
57.5°	4542	4574	4842	5524	6290	7338	8148	8158	8084	7998	7970
60°	4542	4578	4804	5470	6430	7762	9084	9918	9758	9742	9640
62.5°	4354	4388	4616	5304	6618	8334	10388	11860	11814	11710	11542
65°	3946	3966	4190	4880	6546	8860	11518	13152	13078	12874	12658
66°	3762	3778	3988	4638	6310	8932	11718	13314	13192	13020	12776
67.5°	3496	3524	3672	4188	5744	8682	11592	13200	13094	12886	12642
70°	2334	2314	2836	3214	4376	7074	10400	11852	11854	11756	11658
72.5°	1108	1120	1272	1978	2864	4726	8278	9460	9596	9420	9298
75°	796	814	906	1210	1708	2836	5366	6616	6620	6308	6030
77.5°	232	242	340	746	1280	1914	3082	3678	3592	3368	3158
80°	96	96	100	238	514	1300	2156	2832	2822	2736	2612
82.5°	36	38	48	98	122	320	1438	2458	2452	2330	2242
85°	4	4	12	42	46	60	288	1084	1078	1084	950
87.5°	0	0	2	4	6	8	12	42	46	44	40
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	314	314	314	314	314	314	314	314	314	314	314
2.5°	342	338	338	336	336	336	334	332	332	330	328
5°	374	370	368	364	362	360	356	354	350	348	346
7.5°	412	404	402	396	390	386	382	376	372	364	362
10°	460	450	442	434	428	418	412	404	396	390	384
12.5°	522	508	496	488	474	462	450	444	428	420	410
15°	590	574	560	544	534	514	498	480	472	458	442
17.5°	678	652	630	614	594	574	556	538	514	498	478
20°	772	750	720	692	668	644	618	594	572	546	522
22.5°	892	860	824	796	764	738	702	670	634	600	572
25°	1044	1002	968	928	890	850	806	766	720	688	640
27.5°	1232	1192	1146	1094	1056	996	938	888	834	784	730
30°	1472	1414	1366	1316	1240	1182	1114	1046	972	922	840
32.5°	1760	1698	1626	1554	1484	1402	1318	1234	1152	1060	976
35°	2112	2038	1956	1878	1770	1682	1576	1460	1368	1262	1156
37.5°	2578	2456	2384	2302	2156	2036	1918	1802	1640	1528	1378
40°	3162	3090	2972	2840	2708	2550	2390	2236	2048	1892	1718
42.5°	3848	3742	3622	3432	3298	3112	2930	2726	2496	2296	2092
45°	4492	4366	4274	4084	3944	3724	3504	3288	3022	2764	2528
47.5°	5188	5084	4932	4778	4636	4388	4150	3888	3608	3302	2996
50°	5800	5718	5614	5428	5270	5062	4782	4496	4142	3838	3490
52.5°	6320	6256	6110	5978	5836	5640	5390	5116	4734	4400	4004
55°	6934	6888	6760	6678	6552	6364	6130	5876	5472	5108	4660
57.5°	7940	7904	7792	7758	7634	7470	7182	6910	6438	5986	5474
60°	9606	9534	9370	9286	9024	8804	8430	8056	7486	6910	6294
62.5°	11390	11188	10876	10608	10236	9854	9354	8782	8114	7430	6722
65°	12352	12008	11614	11188	10706	10144	9514	8828	8110	7388	6640
66°	12462	12074	11656	11182	10646	10048	9408	8688	7942	7238	6490
67.5°	12324	11918	11476	10950	10370	9750	9078	8330	7612	6898	6170
70°	11358	10954	10560	10006	9388	8764	8128	7292	6612	5956	5308
72.5°	9070	8796	8406	7932	7330	6598	6068	5320	4730	4094	3592
75°	5668	5282	4800	4196	3736	3142	2832	2264	1928	1634	1350
77.5°	2898	2608	2270	1930	1604	1280	990	700	472	328	244
80°	2394	2138	1858	1548	1260	978	704	480	306	200	156
82.5°	1978	1762	1512	1224	974	768	534	348	216	140	110
85°	842	764	590	468	352	260	182	122	86	70	64
87.5°	36	40	38	30	22	22	20	16	16	16	16
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	314	314	314	314	314	314	314	314	314	314	314
2.5°	328	326	324	324	322	320	308	298	286	278	270
5°	342	340	336	334	330	328	302	280	262	248	238
7.5°	356	354	348	342	340	336	294	266	242	226	216
10°	374	368	362	354	348	342	286	250	224	210	200
12.5°	400	390	380	370	362	352	282	236	210	194	184
15°	430	416	404	392	378	368	274	224	198	182	170
17.5°	458	442	424	406	392	378	266	212	186	170	158
20°	498	474	452	430	410	392	254	200	176	158	146
22.5°	542	514	486	456	430	406	244	190	166	148	134
25°	598	564	526	488	458	426	234	180	156	138	124
27.5°	676	628	586	538	492	456	226	172	146	128	114
30°	782	712	646	594	540	488	218	162	138	118	102
32.5°	900	818	742	664	596	536	210	154	128	108	94
35°	1046	942	840	750	668	588	202	146	120	98	84
37.5°	1256	1126	992	876	770	664	196	138	110	88	74
40°	1544	1376	1212	1054	916	784	188	130	102	80	66
42.5°	1856	1652	1436	1258	1068	902	180	122	94	72	58
45°	2244	1990	1728	1486	1254	1040	172	114	84	64	50
47.5°	2668	2344	2048	1744	1468	1212	162	108	76	56	44
50°	3104	2762	2388	2042	1714	1384	152	98	68	50	36
52.5°	3574	3170	2788	2358	1976	1610	142	90	62	44	30
55°	4172	3720	3272	2790	2330	1872	132	80	54	38	24
57.5°	4924	4388	3838	3294	2736	2216	124	70	46	32	20
60°	5634	5008	4342	3716	3086	2480	112	62	40	26	20
62.5°	6002	5288	4570	3880	3208	2574	100	52	34	22	18
65°	5912	5184	4488	3792	3134	2514	88	46	30	20	18
66°	5782	5062	4362	3700	3072	2450	82	44	28	20	16
67.5°	5498	4802	4134	3518	2902	2328	74	40	26	18	16
70°	4696	4064	3530	2982	2480	1962	60	34	22	16	16
72.5°	3108	2678	2322	1998	1670	1296	50	28	18	16	14
75°	1172	1060	910	818	714	626	40	18	14	14	14
77.5°	208	192	170	156	144	132	32	12	12	14	14
80°	140	130	118	108	100	90	22	10	12	12	14
82.5°	100	94	88	80	74	66	14	10	12	12	12
85°	60	56	52	48	42	40	10	10	10	12	12
87.5°	16	14	16	16	12	14	8	8	8	10	10
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	314	314	314	314	314
2.5°	266	266	262	268	268
5°	230	230	228	230	230
7.5°	210	208	208	208	210
10°	192	190	190	190	190
12.5°	176	174	172	174	174
15°	162	158	158	158	158
17.5°	150	146	144	144	144
20°	138	132	132	132	132
22.5°	126	120	120	120	120
25°	114	108	108	108	108
27.5°	104	98	98	98	98
30°	92	88	88	90	88
32.5°	84	78	78	80	80
35°	74	70	70	70	70
37.5°	64	60	60	60	60
40°	56	52	50	52	52
42.5°	48	44	42	42	42
45°	42	36	34	36	36
47.5°	34	30	30	32	32
50°	26	26	28	32	32
52.5°	24	24	28	32	32
55°	22	24	28	30	32
57.5°	20	24	28	30	30
60°	20	22	26	30	30
62.5°	18	20	24	28	28
65°	18	20	24	28	28
66°	18	20	24	28	28
67.5°	18	20	24	28	28
70°	18	20	24	26	26
72.5°	16	18	22	26	26
75°	16	18	22	26	26
77.5°	16	18	22	26	26
80°	16	18	22	24	26
82.5°	14	18	20	24	24
85°	14	16	20	22	24
87.5°	12	14	16	20	20
90°	0	0	0	0	0

(END OF REPORT)