

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: P150660

Luminaire Tested: **TLM-E03-LED-E1-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P150660  
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-E03-LED-E1-SL3-HSS  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND  
HOUSE SIDE SHIELD  
Light Source: (63) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5201.5 lumens  
Efficiency: N/A  
Efficacy: 69.2 lumens/watt  
Spacing Criteria (0/90/45): 4.23 / 3.52 / 4.34  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
CIE Type: Direct

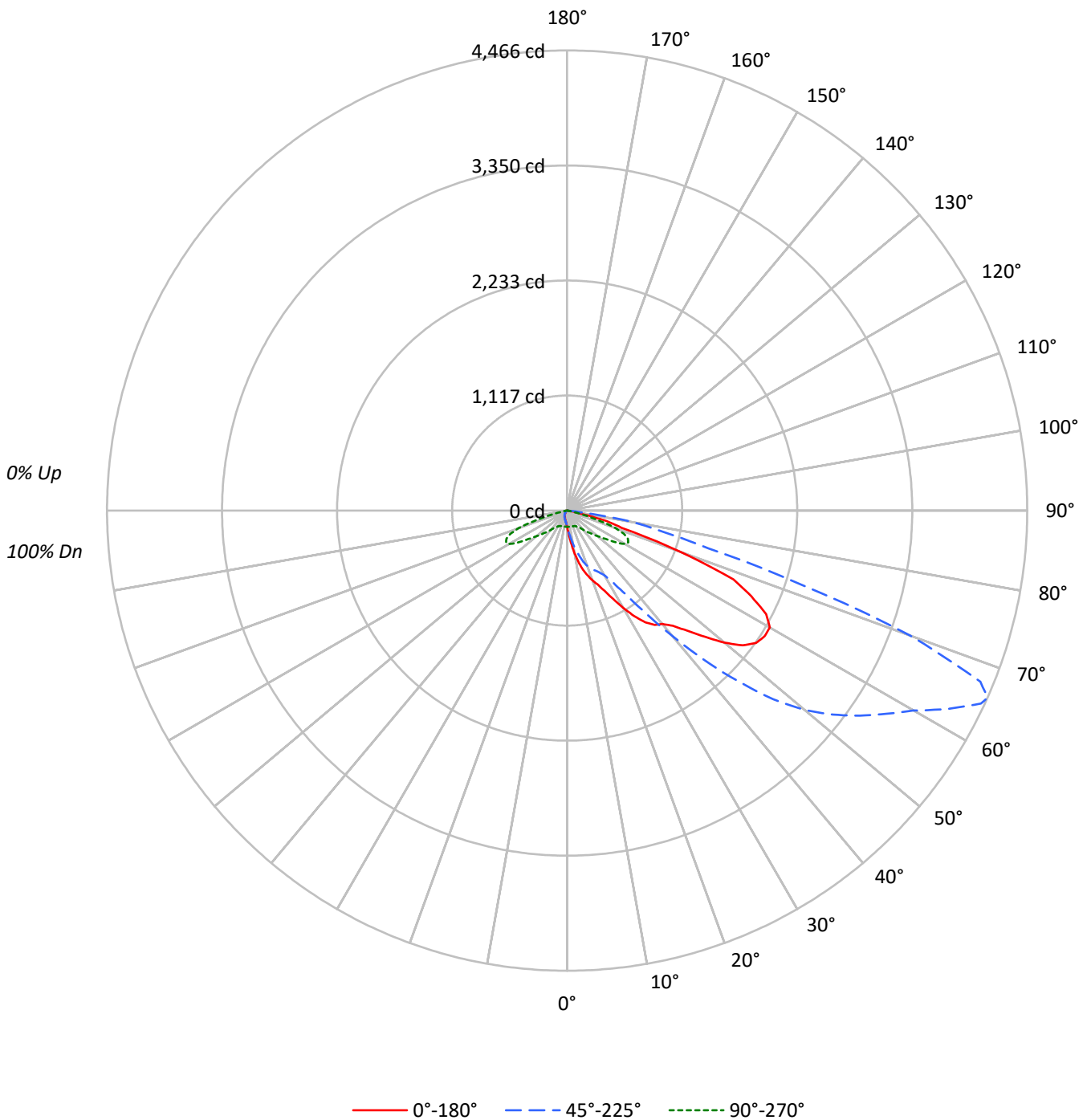
Input Watts (W): 75.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	98	93	87	102	96	91	86	92	87	83	88	84	81	84	81	78	76
2	91	80	71	63	88	78	69	62	74	67	61	71	64	59	67	62	58	55
3	80	66	55	46	77	64	54	46	61	52	45	58	50	44	55	48	43	40
4	71	55	43	35	68	53	43	34	51	41	34	48	40	33	45	38	32	30
5	63	47	35	27	61	45	34	26	43	33	26	41	32	26	39	31	25	23
6	57	40	29	21	55	39	29	21	37	28	21	35	27	20	33	26	20	17
7	52	35	24	17	50	34	24	17	33	23	17	31	23	16	29	22	16	14
8	48	31	21	14	46	30	21	14	29	20	14	28	19	13	26	19	13	11
9	44	28	18	12	42	27	18	12	26	17	11	25	17	11	24	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°	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°	17.6	0.3
10°-20°	74.5	1.4
20°-30°	160.7	3.1
30°-40°	343.2	6.6
40°-50°	759.1	14.6
50°-60°	1286.4	24.7
60°-70°	1716.6	33.0
70°-80°	756.2	14.5
80°-90°	87.1	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°	252.8	4.9
0°-40°	596.1	11.5
0°-60°	2641.6	50.8
0°-90°	5201.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5201.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	157	157	157	157	157	
5°	262	222	158	119	115	30
15°	595	454	160	85	79	170
25°	859	641	165	62	54	411
35°	1324	992	198	42	35	821
45°	1646	2335	303	25	18	1301
55°	2240	3470	501	12	16	1974
65°	1973	4430	650	9	14	1884
75°	398	1418	166	7	13	439
85°	2	30	12	6	12	12
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°	157	157	157	157	157	157	157	157	157	157	157
2.5°	198	197	193	193	187	183	178	173	173	172	171
5°	262	256	255	244	235	222	210	194	192	190	189
7.5°	333	332	323	310	292	268	244	218	214	212	208
10°	425	420	408	386	359	327	288	247	242	238	236
12.5°	513	504	497	469	435	388	341	282	278	273	265
15°	595	587	575	551	513	454	399	327	317	310	304
17.5°	659	654	640	613	572	520	454	373	365	356	345
20°	720	713	691	654	610	570	519	433	422	411	399
22.5°	778	771	735	674	627	610	592	501	484	475	463
25°	859	844	788	691	628	641	672	589	573	560	541
27.5°	968	948	860	716	632	675	764	696	679	664	643
30°	1091	1078	973	776	661	725	867	832	812	794	769
32.5°	1215	1197	1093	890	739	822	996	990	964	947	920
35°	1324	1315	1238	1077	917	992	1168	1175	1152	1134	1104
37.5°	1398	1398	1383	1278	1200	1256	1421	1422	1399	1358	1343
40°	1436	1447	1501	1521	1517	1589	1753	1735	1716	1695	1645
42.5°	1514	1524	1639	1777	1867	1962	2075	2069	2046	2008	1962
45°	1646	1659	1796	2015	2200	2335	2407	2379	2356	2320	2296
47.5°	1814	1839	1994	2265	2488	2711	2786	2712	2692	2664	2625
50°	1993	2017	2182	2492	2744	3010	3135	3010	2981	2972	2928
52.5°	2148	2168	2327	2667	2940	3252	3434	3269	3248	3218	3186
55°	2240	2256	2405	2751	3073	3470	3723	3578	3547	3535	3489
57.5°	2271	2287	2421	2762	3145	3669	4074	4079	4042	3999	3985
60°	2271	2289	2402	2735	3215	3881	4542	4959	4879	4871	4820
62.5°	2177	2194	2308	2652	3309	4167	5194	5930	5907	5855	5771
65°	1973	1983	2095	2440	3273	4430	5759	6576	6539	6437	6329
66°	1881	1889	1994	2319	3155	4466	5859	6657	6596	6510	6388
67.5°	1748	1762	1836	2094	2872	4341	5796	6600	6547	6443	6321
70°	1167	1157	1418	1607	2188	3537	5200	5926	5927	5878	5829
72.5°	554	560	636	989	1432	2363	4139	4730	4798	4710	4649
75°	398	407	453	605	854	1418	2683	3308	3310	3154	3015
77.5°	116	121	170	373	640	957	1541	1839	1796	1684	1579
80°	48	48	50	119	257	650	1078	1416	1411	1368	1306
82.5°	18	19	24	49	61	160	719	1229	1226	1165	1121
85°	2	2	6	21	23	30	144	542	539	542	475
87.5°	0	0	1	2	3	4	6	21	23	22	20
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°	157	157	157	157	157	157	157	157	157	157	157
2.5°	171	169	169	168	168	168	167	166	166	165	164
5°	187	185	184	182	181	180	178	177	175	174	173
7.5°	206	202	201	198	195	193	191	188	186	182	181
10°	230	225	221	217	214	209	206	202	198	195	192
12.5°	261	254	248	244	237	231	225	222	214	210	205
15°	295	287	280	272	267	257	249	240	236	229	221
17.5°	339	326	315	307	297	287	278	269	257	249	239
20°	386	375	360	346	334	322	309	297	286	273	261
22.5°	446	430	412	398	382	369	351	335	317	300	286
25°	522	501	484	464	445	425	403	383	360	344	320
27.5°	616	596	573	547	528	498	469	444	417	392	365
30°	736	707	683	658	620	591	557	523	486	461	420
32.5°	880	849	813	777	742	701	659	617	576	530	488
35°	1056	1019	978	939	885	841	788	730	684	631	578
37.5°	1289	1228	1192	1151	1078	1018	959	901	820	764	689
40°	1581	1545	1486	1420	1354	1275	1195	1118	1024	946	859
42.5°	1924	1871	1811	1716	1649	1556	1465	1363	1248	1148	1046
45°	2246	2183	2137	2042	1972	1862	1752	1644	1511	1382	1264
47.5°	2594	2542	2466	2389	2318	2194	2075	1944	1804	1651	1498
50°	2900	2859	2807	2714	2635	2531	2391	2248	2071	1919	1745
52.5°	3160	3128	3055	2989	2918	2820	2695	2558	2367	2200	2002
55°	3467	3444	3380	3339	3276	3182	3065	2938	2736	2554	2330
57.5°	3970	3952	3896	3879	3817	3735	3591	3455	3219	2993	2737
60°	4803	4767	4685	4643	4512	4402	4215	4028	3743	3455	3147
62.5°	5695	5594	5438	5304	5118	4927	4677	4391	4057	3715	3361
65°	6176	6004	5807	5594	5353	5072	4757	4414	4055	3694	3320
66°	6231	6037	5828	5591	5323	5024	4704	4344	3971	3619	3245
67.5°	6162	5959	5738	5475	5185	4875	4539	4165	3806	3449	3085
70°	5679	5477	5280	5003	4694	4382	4064	3646	3306	2978	2654
72.5°	4535	4398	4203	3966	3665	3299	3034	2660	2365	2047	1796
75°	2834	2641	2400	2098	1868	1571	1416	1132	964	817	675
77.5°	1449	1304	1135	965	802	640	495	350	236	164	122
80°	1197	1069	929	774	630	489	352	240	153	100	78
82.5°	989	881	756	612	487	384	267	174	108	70	55
85°	421	382	295	234	176	130	91	61	43	35	32
87.5°	18	20	19	15	11	11	10	8	8	8	8
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°	157	157	157	157	157	157	157	157	157	157	157
2.5°	164	163	162	162	161	160	154	149	143	139	135
5°	171	170	168	167	165	164	151	140	131	124	119
7.5°	178	177	174	171	170	168	147	133	121	113	108
10°	187	184	181	177	174	171	143	125	112	105	100
12.5°	200	195	190	185	181	176	141	118	105	97	92
15°	215	208	202	196	189	184	137	112	99	91	85
17.5°	229	221	212	203	196	189	133	106	93	85	79
20°	249	237	226	215	205	196	127	100	88	79	73
22.5°	271	257	243	228	215	203	122	95	83	74	67
25°	299	282	263	244	229	213	117	90	78	69	62
27.5°	338	314	293	269	246	228	113	86	73	64	57
30°	391	356	323	297	270	244	109	81	69	59	51
32.5°	450	409	371	332	298	268	105	77	64	54	47
35°	523	471	420	375	334	294	101	73	60	49	42
37.5°	628	563	496	438	385	332	98	69	55	44	37
40°	772	688	606	527	458	392	94	65	51	40	33
42.5°	928	826	718	629	534	451	90	61	47	36	29
45°	1122	995	864	743	627	520	86	57	42	32	25
47.5°	1334	1172	1024	872	734	606	81	54	38	28	22
50°	1552	1381	1194	1021	857	692	76	49	34	25	18
52.5°	1787	1585	1394	1179	988	805	71	45	31	22	15
55°	2086	1860	1636	1395	1165	936	66	40	27	19	12
57.5°	2462	2194	1919	1647	1368	1108	62	35	23	16	10
60°	2817	2504	2171	1858	1543	1240	56	31	20	13	10
62.5°	3001	2644	2285	1940	1604	1287	50	26	17	11	9
65°	2956	2592	2244	1896	1567	1257	44	23	15	10	9
66°	2891	2531	2181	1850	1536	1225	41	22	14	10	8
67.5°	2749	2401	2067	1759	1451	1164	37	20	13	9	8
70°	2348	2032	1765	1491	1240	981	30	17	11	8	8
72.5°	1554	1339	1161	999	835	648	25	14	9	8	7
75°	586	530	455	409	357	313	20	9	7	7	7
77.5°	104	96	85	78	72	66	16	6	6	7	7
80°	70	65	59	54	50	45	11	5	6	6	7
82.5°	50	47	44	40	37	33	7	5	6	6	6
85°	30	28	26	24	21	20	5	5	5	6	6
87.5°	8	7	8	8	6	7	4	4	4	5	5
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°	157	157	157	157	157
2.5°	133	133	131	134	134
5°	115	115	114	115	115
7.5°	105	104	104	104	105
10°	96	95	95	95	95
12.5°	88	87	86	87	87
15°	81	79	79	79	79
17.5°	75	73	72	72	72
20°	69	66	66	66	66
22.5°	63	60	60	60	60
25°	57	54	54	54	54
27.5°	52	49	49	49	49
30°	46	44	44	45	44
32.5°	42	39	39	40	40
35°	37	35	35	35	35
37.5°	32	30	30	30	30
40°	28	26	25	26	26
42.5°	24	22	21	21	21
45°	21	18	17	18	18
47.5°	17	15	15	16	16
50°	13	13	14	16	16
52.5°	12	12	14	16	16
55°	11	12	14	15	16
57.5°	10	12	14	15	15
60°	10	11	13	15	15
62.5°	9	10	12	14	14
65°	9	10	12	14	14
66°	9	10	12	14	14
67.5°	9	10	12	14	14
70°	9	10	12	13	13
72.5°	8	9	11	13	13
75°	8	9	11	13	13
77.5°	8	9	11	13	13
80°	8	9	11	12	13
82.5°	7	9	10	12	12
85°	7	8	10	11	12
87.5°	6	7	8	10	10
90°	0	0	0	0	0

(END OF REPORT)