

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: P147370

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147370
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)
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-E1-5MQ
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (126) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

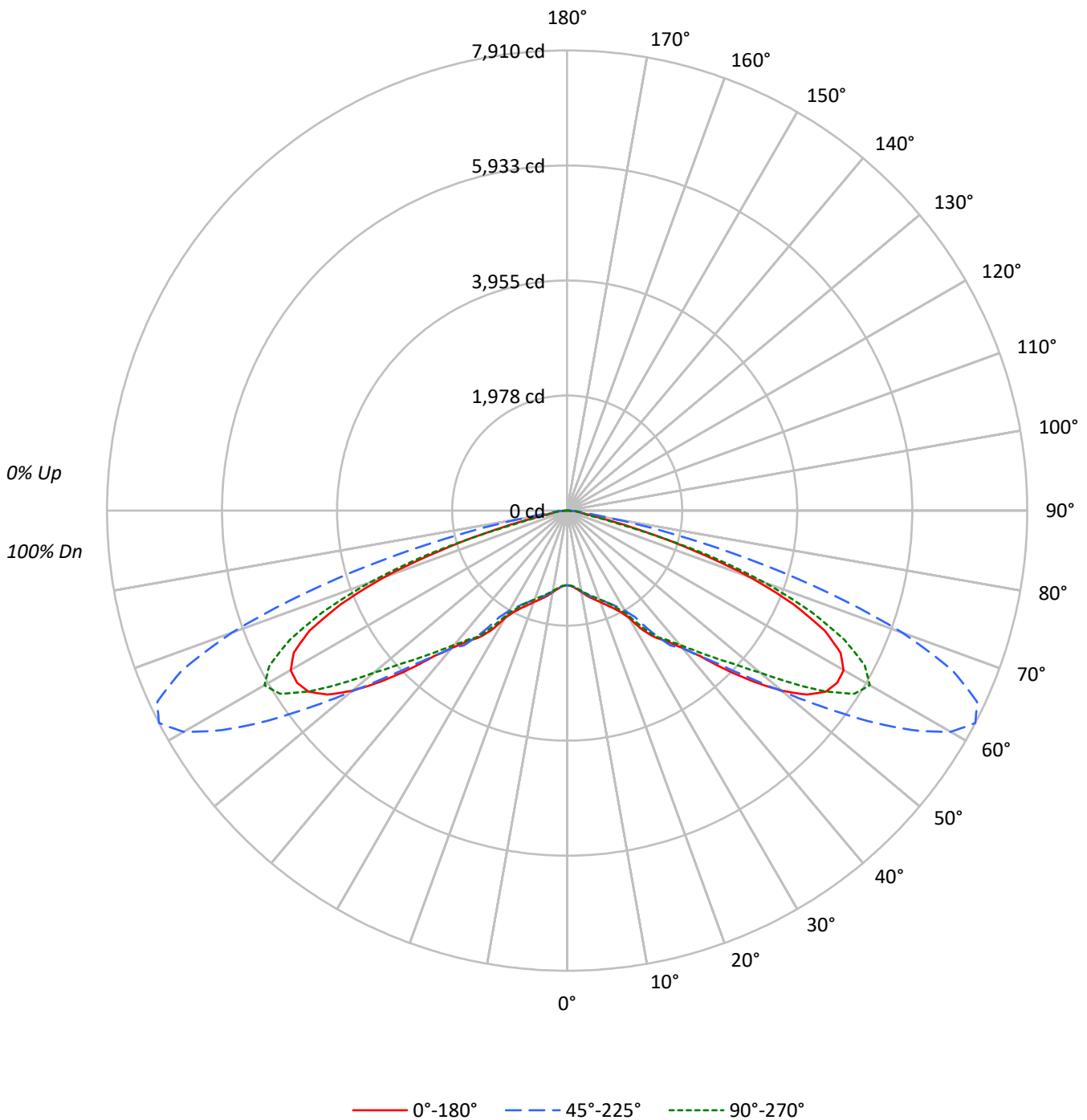
Lumens per Lamp: N/A
Luminaire Lumens: 19342.6 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 3.55 / 3.67 / 3.6
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	106	100	94	90	103	97	93	88	93	89	85	89	86	83	85	83	80	78
2	93	82	73	66	90	80	72	65	76	70	64	73	67	62	70	65	61	58
3	82	68	58	50	79	67	57	49	63	55	48	60	53	47	57	51	46	44
4	73	57	46	38	70	56	46	38	53	44	37	51	43	36	48	41	36	33
5	65	49	38	30	63	48	37	30	46	36	29	43	35	29	41	34	28	26
6	59	43	32	24	57	42	31	24	40	30	23	38	29	23	36	29	23	20
7	54	37	27	20	52	37	27	19	35	26	19	33	25	19	32	24	19	16
8	49	33	23	16	47	33	23	16	31	22	16	30	22	16	28	21	16	13
9	46	30	20	14	44	29	20	14	28	20	14	27	19	14	26	19	13	11
10	42	27	18	12	41	27	18	12	25	17	12	24	17	12	23	17	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13821	13821	13821
5°	14284	14209	14176
10°	15542	15378	15302
15°	17250	16927	16760
20°	19175	18717	18557
25°	21889	20998	21164
30°	26437	24659	25505
35°	35098	33810	34664
40°	43278	43404	42294
45°	58957	57282	54405
50°	80630	81049	72643
55°	101845	118322	101713
60°	118123	163784	129296
65°	124393	198001	133970
70°	105524	193015	113424
75°	53524	135496	46496
80°	16984	47048	17108
85°	18402	24453	18772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.7	0.7
10°-20°	435.0	2.2
20°-30°	841.0	4.3
30°-40°	1628.3	8.4
40°-50°	2940.1	15.2
50°-60°	5112.4	26.4
60°-70°	5803.9	30.0
70°-80°	2250.2	11.6
80°-90°	203.0	1.0
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°	1404.6	7.3
0°-40°	3033.0	15.7
0°-60°	11085.5	57.3
0°-90°	19342.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19342.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1322	1320	1315	1314	1312	129
15°	1548	1537	1519	1508	1504	442
25°	1843	1806	1768	1770	1782	868
35°	2671	2620	2573	2618	2638	1669
45°	3873	3784	3763	3616	3574	3034
55°	5427	5688	6305	5612	5420	4778
65°	4884	5607	7774	6035	5260	4656
75°	1287	1800	3258	1704	1118	1559
85°	149	214	198	214	152	146
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1284	1284	1284	1284	1284	1284	1284	1284	1284	1284	1284
2.5°	1292	1296	1295	1293	1293	1293	1292	1289	1288	1290	1292
5°	1322	1322	1322	1322	1320	1320	1318	1316	1317	1315	1314
7.5°	1368	1365	1365	1364	1364	1362	1359	1355	1356	1355	1354
10°	1422	1423	1420	1423	1418	1417	1413	1411	1410	1407	1407
12.5°	1487	1484	1484	1482	1480	1478	1472	1471	1467	1465	1462
15°	1548	1547	1543	1539	1538	1536	1529	1525	1524	1519	1515
17.5°	1609	1607	1602	1600	1596	1593	1587	1581	1578	1576	1571
20°	1674	1672	1667	1663	1658	1654	1645	1640	1637	1634	1630
22.5°	1755	1751	1743	1736	1725	1721	1709	1702	1697	1693	1691
25°	1843	1844	1833	1824	1811	1800	1785	1777	1772	1768	1767
27.5°	1953	1954	1944	1931	1911	1899	1879	1869	1866	1862	1861
30°	2127	2118	2101	2080	2062	2036	2007	1997	1987	1984	1984
32.5°	2447	2442	2428	2376	2352	2298	2247	2218	2185	2169	2159
35°	2671	2669	2658	2640	2625	2614	2584	2579	2573	2573	2581
37.5°	2836	2824	2822	2825	2821	2823	2847	2880	2908	2922	2920
40°	3080	3063	3073	3066	3057	3055	3063	3076	3089	3089	3086
42.5°	3399	3407	3411	3382	3363	3358	3377	3373	3386	3381	3368
45°	3873	3868	3861	3826	3796	3772	3777	3770	3771	3763	3753
47.5°	4351	4368	4339	4322	4288	4271	4285	4273	4296	4254	4234
50°	4815	4827	4817	4793	4793	4817	4834	4856	4888	4840	4768
52.5°	5195	5205	5220	5240	5289	5340	5412	5489	5550	5541	5459
55°	5427	5439	5464	5533	5621	5755	5918	6097	6237	6305	6245
57.5°	5505	5514	5582	5665	5802	6001	6274	6583	6852	7023	6996
60°	5487	5487	5556	5670	5862	6126	6512	6940	7352	7608	7570
62.5°	5298	5308	5407	5544	5776	6092	6552	7099	7592	7910	7879
65°	4884	4891	4998	5161	5420	5794	6297	6903	7468	7774	7716
67.5°	4215	4222	4309	4493	4767	5158	5701	6368	6921	7163	6989
70°	3353	3373	3429	3624	3832	4215	4715	5382	5904	6133	5941
72.5°	2285	2336	2404	2577	2776	3094	3492	4054	4473	4738	4567
75°	1287	1359	1380	1511	1675	1926	2217	2620	3043	3258	3052
77.5°	556	615	641	702	830	935	1112	1384	1711	1862	1615
80°	274	288	299	318	354	388	472	591	725	759	604
82.5°	212	222	241	256	265	274	282	298	311	318	300
85°	149	162	183	200	210	217	224	229	217	198	208
87.5°	39	51	71	77	87	92	90	93	84	61	68
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1284	1284	1284	1284	1284	1284	1284	1284
2.5°	1291	1290	1291	1291	1291	1290	1290	1290
5°	1314	1314	1315	1313	1313	1314	1313	1312
7.5°	1353	1352	1352	1351	1352	1351	1351	1350
10°	1405	1403	1404	1401	1401	1400	1400	1400
12.5°	1461	1458	1459	1456	1451	1452	1453	1452
15°	1515	1512	1509	1507	1504	1505	1505	1504
17.5°	1570	1564	1563	1560	1559	1559	1559	1560
20°	1627	1623	1622	1619	1618	1621	1622	1620
22.5°	1688	1686	1688	1686	1689	1691	1692	1690
25°	1765	1763	1766	1773	1777	1779	1784	1782
27.5°	1864	1862	1869	1879	1885	1895	1900	1902
30°	1992	2001	2005	2025	2029	2045	2045	2052
32.5°	2178	2195	2225	2256	2299	2330	2330	2346
35°	2586	2593	2616	2621	2630	2640	2630	2638
37.5°	2899	2868	2846	2815	2796	2796	2798	2796
40°	3059	3047	3037	3011	3007	3006	3006	3010
42.5°	3345	3316	3300	3278	3271	3269	3268	3270
45°	3717	3670	3627	3605	3586	3568	3574	3574
47.5°	4150	4077	4007	3969	3936	3921	3911	3908
50°	4677	4575	4485	4414	4366	4365	4370	4338
52.5°	5323	5162	5050	4954	4909	4904	4888	4870
55°	6039	5848	5663	5560	5501	5469	5450	5420
57.5°	6777	6520	6254	6089	5985	5913	5875	5858
60°	7346	6995	6644	6379	6206	6099	6033	6006
62.5°	7570	7094	6644	6296	6046	5898	5809	5770
65°	7303	6739	6227	5843	5564	5399	5302	5260
67.5°	6557	6059	5502	5120	4833	4670	4565	4534
70°	5497	4988	4456	4115	3859	3726	3617	3604
72.5°	4131	3692	3236	2954	2748	2528	2472	2500
75°	2648	2237	1831	1577	1389	1179	1098	1118
77.5°	1254	971	701	542	455	389	372	362
80°	465	377	333	316	304	293	285	276
82.5°	301	294	285	282	273	259	233	222
85°	225	225	213	214	207	189	165	152
87.5°	66	59	54	50	49	44	32	28
90°	0	0	0	0	0	0	0	0

(END OF REPORT)