

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: P148980

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P148980  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)  
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-RW  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE  
Light Source: (126) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18743.6 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 3.07 / 1.6  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
CIE Type: Direct

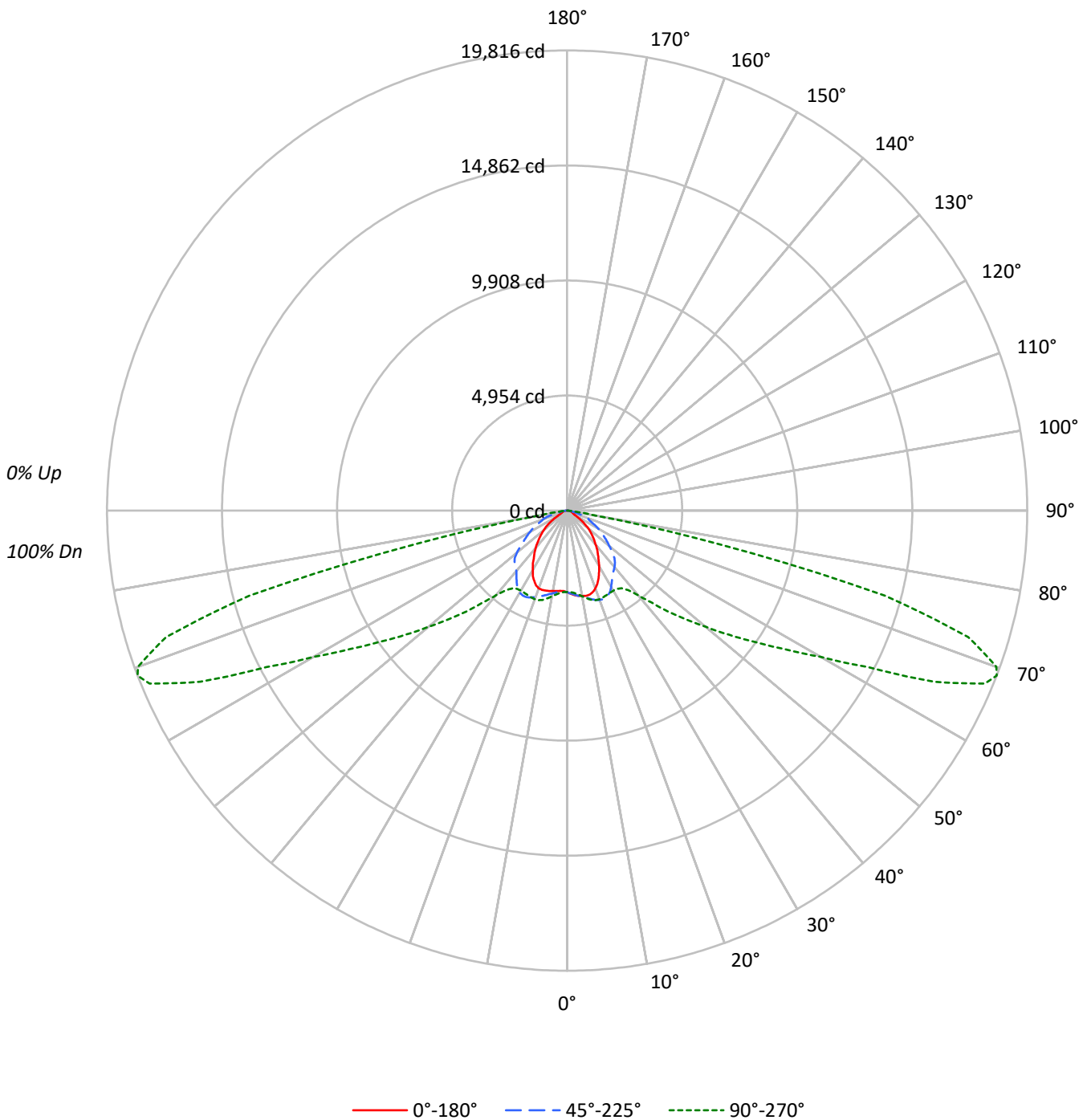
Input Watts (W): 150.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: TLM-E06-LED-E1-RW

### 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	106	101	95	91	104	98	93	89	94	90	86	90	87	84	86	84	81	79					79			
2	94	84	76	69	91	82	75	68	79	72	66	75	70	65	72	67	63	61					61			
3	84	72	62	54	81	70	61	54	67	59	52	64	57	51	61	55	51	48					48			
4	76	62	51	44	73	60	51	43	58	49	43	55	48	42	53	47	41	39					39			
5	69	54	44	36	67	53	43	36	51	42	35	49	41	35	47	40	35	32					32			
6	63	48	38	31	61	47	37	30	45	36	30	43	36	30	42	35	29	27					27			
7	58	43	33	26	56	42	33	26	40	32	26	39	31	26	38	31	25	23					23			
8	54	39	29	23	52	38	29	23	37	29	23	35	28	23	34	27	22	20					20			
9	50	35	26	20	49	35	26	20	34	26	20	32	25	20	31	25	20	18					18			
10	47	33	24	18	46	32	24	18	31	23	18	30	23	18	29	23	18	16					16			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	37803	37803	37803
5°	39482	38488	37493
10°	40834	40966	38495
15°	41766	44329	39716
20°	40756	46529	40848
25°	38029	47673	39739
30°	34230	49493	36765
35°	30407	53639	32877
40°	26810	66744	29620
45°	23443	93527	25878
50°	19726	130382	22205
55°	14225	185036	17453
60°	8482	270949	10419
65°	7641	443935	7641
70°	7805	619109	7931
75°	8318	589227	8734
80°	8430	75872	9174
85°	5434	19019	7657



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.5	1.8
10°-20°	1086.7	5.8
20°-30°	1760.6	9.4
30°-40°	2194.2	11.7
40°-50°	2741.9	14.6
50°-60°	3385.6	18.1
60°-70°	4206.8	22.4
70°-80°	2792.8	14.9
80°-90°	230.6	1.2
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°	3191.8	17.0
0°-40°	5386.0	28.7
0°-60°	11513.5	61.4
0°-90°	18743.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18743.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3512	3512	3512	3512	3512	
5°	3654	3632	3562	3506	3470	351
15°	3748	3940	3978	3782	3564	1049
25°	3202	4078	4014	4116	3346	1463
35°	2314	3408	4082	3792	2502	1449
45°	1540	2870	6144	3204	1700	1187
55°	758	1942	9860	2276	930	676
65°	300	1126	17430	1432	300	303
75°	200	444	14168	578	210	209
85°	44	84	154	110	62	57
90°	0	0	0	0	0	



TEST NUMBER: P148980

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	3512	3512	3512	3512	3512	3512	3512	3512	3512	3512	3512
2.5°	3592	3604	3592	3592	3582	3572	3566	3552	3544	3540	3540
5°	3654	3652	3654	3654	3644	3632	3624	3612	3600	3598	3596
7.5°	3700	3698	3704	3716	3710	3700	3700	3688	3680	3680	3676
10°	3736	3738	3750	3768	3772	3770	3784	3780	3776	3780	3776
12.5°	3760	3762	3778	3812	3834	3848	3884	3886	3888	3888	3888
15°	3748	3748	3780	3844	3898	3940	3986	3994	3986	3992	3988
17.5°	3678	3682	3734	3832	3942	4034	4084	4070	4056	4056	4050
20°	3558	3566	3636	3774	3948	4094	4172	4126	4088	4082	4076
22.5°	3410	3404	3488	3662	3902	4120	4226	4170	4102	4088	4078
25°	3202	3206	3294	3488	3786	4078	4242	4214	4134	4116	4094
27.5°	2974	2984	3078	3276	3606	3974	4224	4258	4196	4176	4156
30°	2754	2760	2866	3078	3384	3790	4176	4306	4274	4258	4240
32.5°	2520	2540	2632	2872	3208	3588	4102	4356	4368	4358	4348
35°	2314	2330	2434	2686	3038	3408	4012	4410	4492	4490	4488
37.5°	2128	2132	2242	2498	2870	3282	3918	4498	4644	4664	4688
40°	1908	1928	2042	2318	2704	3174	3838	4616	4856	4900	4934
42.5°	1732	1732	1834	2108	2508	3050	3810	4764	5108	5168	5228
45°	1540	1546	1644	1894	2284	2870	3806	4928	5390	5476	5550
47.5°	1358	1362	1466	1708	2052	2622	3756	5110	5686	5810	5892
50°	1178	1172	1272	1518	1846	2366	3596	5346	6054	6178	6272
52.5°	956	972	1080	1314	1644	2148	3270	5578	6434	6574	6702
55°	758	756	878	1090	1426	1942	2884	5742	6804	6966	7108
57.5°	544	550	654	864	1200	1758	2592	5714	7090	7282	7462
60°	394	406	484	638	958	1546	2388	5390	7286	7548	7766
62.5°	332	342	410	494	740	1324	2190	4870	7540	7886	8202
65°	300	308	376	424	568	1126	2066	4502	7874	8400	8832
67.5°	270	282	342	378	482	1006	2030	4446	7938	8634	9248
69°	256	268	322	354	454	968	1962	4244	7520	8268	8956
70°	248	258	306	340	446	932	1866	3948	7076	7830	8570
72.5°	228	234	274	308	410	716	1414	2852	5282	6028	6754
75°	200	206	242	276	318	444	858	1692	3242	3744	4472
77.5°	172	178	208	260	252	290	524	1012	1700	1950	2416
80°	136	144	174	250	210	230	384	748	1034	1138	1260
82.5°	96	100	132	200	158	174	288	622	830	906	942
85°	44	46	78	118	94	84	154	398	550	572	604
87.5°	0	0	8	8	16	10	18	50	84	84	102
90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	3512	3512	3512	3512	3512	3512	3512	3512	3512	3512	3512
2.5°	3542	3540	3542	3542	3544	3536	3534	3532	3530	3532	3528
5°	3596	3594	3594	3596	3594	3588	3586	3586	3580	3578	3578
7.5°	3678	3674	3668	3672	3674	3672	3674	3668	3668	3662	3664
10°	3780	3776	3774	3778	3780	3778	3780	3772	3770	3768	3764
12.5°	3892	3884	3890	3890	3892	3900	3890	3894	3886	3886	3884
15°	3990	3988	3992	3992	3990	3996	3994	3996	3986	3982	3992
17.5°	4052	4046	4048	4046	4046	4046	4050	4050	4044	4042	4046
20°	4068	4058	4056	4054	4050	4050	4052	4048	4044	4040	4044
22.5°	4064	4052	4040	4034	4028	4020	4018	4014	4008	4008	4010
25°	4078	4056	4038	4026	4010	4000	3992	3982	3972	3966	3968
27.5°	4126	4102	4078	4054	4030	4010	3994	3976	3960	3948	3942
30°	4216	4184	4156	4128	4098	4070	4044	4016	3986	3968	3952
32.5°	4320	4298	4280	4248	4216	4182	4150	4126	4082	4048	4020
35°	4478	4470	4460	4436	4400	4382	4356	4318	4266	4236	4194
37.5°	4696	4698	4690	4680	4684	4650	4634	4630	4578	4558	4496
40°	4964	4994	5020	5020	5040	5042	5038	5072	5034	5042	4976
42.5°	5262	5334	5374	5404	5470	5500	5550	5624	5628	5666	5670
45°	5614	5694	5770	5848	5936	6040	6144	6220	6340	6366	6452
47.5°	5980	6096	6184	6284	6434	6568	6722	6878	7016	7114	7170
50°	6384	6502	6630	6742	6902	7090	7304	7518	7696	7870	8010
52.5°	6832	6962	7082	7228	7390	7614	7848	8142	8380	8618	8790
55°	7262	7408	7518	7704	7872	8102	8392	8740	9070	9358	9592
57.5°	7636	7780	7934	8094	8298	8528	8884	9280	9656	10034	10380
60°	7986	8180	8348	8560	8764	9030	9454	9944	10458	10928	11274
62.5°	8514	8762	8960	9222	9506	9820	10288	10828	11498	12104	12642
65°	9252	9632	9952	10274	10620	11052	11558	12244	12984	13880	14590
67.5°	9778	10254	10668	11072	11470	11948	12574	13378	14336	15278	16180
69°	9566	10070	10530	10932	11352	11830	12440	13322	14298	15334	16228
70°	9120	9664	10156	10540	10970	11444	12118	12960	13956	15028	15904
72.5°	7334	7908	8394	8820	9270	9826	10426	11234	12338	13388	14168
75°	5052	5588	6138	6456	6972	7368	7938	8766	9688	10460	11182
77.5°	2858	3146	3562	3692	4062	4326	4628	5138	5618	6066	6196
80°	1300	1214	1256	1192	1262	1218	1168	1196	1190	1280	1196
82.5°	936	808	672	580	510	432	368	330	326	342	336
85°	598	546	428	344	264	204	170	154	154	164	162
87.5°	104	90	56	48	42	28	18	18	16	20	26
90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	3512	3512	3512	3512	3512	3512	3512	3512	3512	3512	3512
2.5°	3528	3526	3522	3520	3520	3516	3514	3518	3520	3522	3516
5°	3578	3572	3570	3572	3562	3564	3562	3564	3564	3564	3560
7.5°	3658	3652	3656	3652	3646	3644	3644	3638	3630	3628	3630
10°	3768	3760	3762	3764	3758	3754	3748	3740	3740	3738	3734
12.5°	3886	3882	3882	3884	3882	3874	3866	3862	3860	3860	3860
15°	3988	3986	3988	3986	3986	3982	3978	3972	3970	3972	3974
17.5°	4046	4040	4046	4048	4046	4046	4046	4042	4040	4040	4042
20°	4050	4046	4050	4056	4056	4058	4062	4064	4062	4066	4068
22.5°	4010	4010	4016	4022	4032	4036	4044	4048	4052	4058	4062
25°	3970	3968	3974	3986	3994	4004	4014	4022	4030	4038	4046
27.5°	3942	3940	3944	3954	3964	3976	3992	4004	4014	4024	4030
30°	3944	3936	3934	3942	3952	3966	3982	3996	4010	4018	4024
32.5°	4002	3982	3974	3972	3976	3986	3998	4012	4022	4030	4032
35°	4152	4114	4106	4080	4084	4082	4082	4090	4098	4098	4084
37.5°	4456	4402	4364	4338	4312	4310	4306	4302	4282	4270	4268
40°	4930	4908	4836	4816	4772	4742	4750	4734	4686	4668	4660
42.5°	5622	5634	5594	5500	5462	5404	5356	5348	5304	5268	5240
45°	6434	6456	6426	6358	6290	6202	6144	6032	5988	5932	5894
47.5°	7268	7328	7280	7220	7182	7044	6924	6794	6728	6648	6612
50°	8096	8202	8174	8118	8076	7902	7786	7606	7568	7488	7444
52.5°	8924	9028	9090	9038	9008	8868	8788	8644	8536	8486	8484
55°	9760	9928	10026	10008	9958	9940	9860	9846	9762	9708	9636
57.5°	10578	10756	10926	11026	11068	11054	11092	11088	11100	11094	10976
60°	11618	11900	12148	12306	12456	12560	12586	12740	12696	12792	12608
62.5°	13086	13452	13828	13994	14178	14516	14596	14778	14806	14830	14732
65°	15132	15612	16180	16434	16722	17156	17430	17624	17618	17486	17360
67.5°	16878	17446	17968	18410	18840	19178	19466	19728	19742	19660	19444
69°	17028	17622	18190	18722	19148	19524	19816	20020	20064	19992	19792
70°	16750	17350	17968	18478	18960	19358	19672	19868	19928	19854	19666
72.5°	15040	15622	16084	16684	17370	17620	18104	18264	18412	18314	18202
75°	11782	12330	12808	13120	13434	14052	14168	14468	14570	14474	14598
77.5°	6138	6508	6668	6418	6456	6944	6668	6992	7178	7232	7310
80°	1174	1234	1280	1264	1280	1316	1224	1174	1240	1226	1226
82.5°	346	340	340	358	356	364	364	350	360	360	362
85°	158	150	148	150	148	148	154	154	166	156	158
87.5°	20	18	20	20	16	16	18	20	20	18	18
90°	0	0	0	0	0	0	0	0	0	0	0





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**CANDELA DISTRIBUTION (continued):**

	95°	96°	97°	98°	99°	100°	105°	115°	125°	135°	145°
0°	3512	3512	3512	3512	3512	3512	3512	3512	3512	3512	3512
2.5°	3514	3512	3512	3512	3510	3508	3506	3500	3494	3492	3482
5°	3552	3554	3550	3546	3546	3546	3540	3524	3512	3506	3492
7.5°	3632	3628	3622	3620	3616	3618	3606	3586	3564	3550	3528
10°	3738	3734	3730	3726	3720	3720	3706	3676	3642	3618	3578
12.5°	3862	3858	3854	3852	3842	3840	3820	3784	3740	3694	3636
15°	3976	3970	3968	3962	3956	3954	3936	3888	3834	3782	3706
17.5°	4048	4044	4038	4034	4032	4030	4004	3964	3922	3870	3778
20°	4072	4074	4070	4066	4060	4056	4032	3994	3986	3958	3864
22.5°	4068	4068	4066	4058	4054	4044	4010	3992	4036	4048	3928
25°	4052	4050	4044	4038	4026	4012	3960	3970	4094	4116	3942
27.5°	4034	4032	4022	4008	3990	3970	3904	3970	4148	4130	3884
30°	4024	4016	4002	3982	3958	3936	3864	4022	4186	4082	3724
32.5°	4026	4012	3992	3966	3938	3912	3862	4114	4200	3966	3498
35°	4074	4052	4026	4000	3972	3948	3952	4242	4198	3792	3280
37.5°	4248	4210	4192	4164	4124	4104	4184	4384	4170	3580	3088
40°	4632	4600	4574	4502	4516	4500	4576	4578	4134	3402	2928
42.5°	5192	5192	5136	5126	5088	5106	5140	4806	4098	3296	2770
45°	5852	5902	5880	5874	5904	5940	5784	5076	4100	3204	2586
47.5°	6636	6678	6700	6736	6774	6752	6430	5360	4136	3072	2350
50°	7470	7572	7604	7650	7684	7690	7042	5652	4174	2830	2094
52.5°	8504	8600	8634	8666	8640	8618	7642	5998	4144	2542	1876
55°	9720	9738	9732	9692	9670	9550	8198	6366	3910	2276	1668
57.5°	10986	10994	10922	10782	10620	10506	8732	6670	3414	2062	1462
60°	12616	12452	12330	12116	11852	11608	9304	6840	2940	1856	1230
62.5°	14584	14256	13992	13776	13386	12956	10034	6862	2652	1660	966
65°	17132	16786	16336	15966	15544	14964	11212	6704	2510	1432	706
67.5°	19138	18788	18284	17870	17326	16650	12188	6428	2476	1226	556
69°	19488	19106	18652	18134	17556	16834	12226	6108	2424	1148	510
70°	19360	18962	18524	17974	17326	16584	11938	5752	2320	1104	494
72.5°	17924	17318	16878	16408	15620	14868	10278	4352	1806	930	462
75°	14350	13832	13336	13102	12448	11810	7716	2764	1180	578	362
77.5°	7316	7222	7364	7258	6786	6786	4762	1468	694	348	276
80°	1314	1370	1344	1400	1302	1446	1674	986	492	266	226
82.5°	368	372	368	370	382	402	870	848	380	200	176
85°	172	174	178	178	194	198	584	608	222	110	118
87.5°	20	26	26	24	28	28	108	122	30	22	36
90°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P148980

CATALOG NUMBER: TLM-E06-LED-E1-RW

**CANDELA DISTRIBUTION (continued):**

	155°	165°	175°	180°
0°	3512	3512	3512	3512
2.5°	3474	3466	3458	3464
5°	3486	3474	3464	3470
7.5°	3518	3498	3496	3496
10°	3558	3530	3522	3522
12.5°	3600	3562	3548	3548
15°	3644	3590	3570	3564
17.5°	3694	3618	3582	3582
20°	3742	3622	3568	3566
22.5°	3750	3576	3498	3494
25°	3690	3468	3366	3346
27.5°	3548	3300	3192	3188
30°	3334	3080	2970	2958
32.5°	3124	2854	2752	2752
35°	2912	2648	2516	2502
37.5°	2716	2430	2312	2310
40°	2536	2240	2126	2108
42.5°	2356	2040	1910	1906
45°	2142	1822	1710	1700
47.5°	1914	1626	1508	1506
50°	1708	1444	1326	1326
52.5°	1520	1266	1148	1136
55°	1308	1064	944	930
57.5°	1078	838	730	700
60°	834	610	500	484
62.5°	608	446	364	352
65°	458	380	312	300
67.5°	394	342	284	272
69°	366	324	272	260
70°	354	312	262	252
72.5°	326	286	240	236
75°	298	260	216	210
77.5°	288	226	186	182
80°	294	184	152	148
82.5°	240	148	118	112
85°	150	100	62	62
87.5°	38	32	18	18
90°	0	0	0	0

(END OF REPORT)