



LUMINAIRE TESTING LABORATORY, INC.

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LTL NUMBER: 19599
PREPARED FOR: TLED SYSTEMS
CATALOG NUMBER:

DATE: 06-11-2010

LUMINAIRE: FORMED WHITE ENAMEL STEEL HOUSING, FORMED WHITE ENAMEL STEEL REFLECTOR, NO ENCLOSURE.

LAMP: ONE T8 LED REPLACEMENT LAMP WITH 60 WHITE LEDS

LED POWER SUPPLY: ONE INVENTRONICS EUV-050S024ST-50W

MOUNTING: SURFACE WALL

ELECTRICAL VALUES: 120.0VAC, 0.1418A, 16.38W, PF=0.963

NOTE: THIS TEST WAS PERFORMED USING THE CALIBRATED PHOTODETECTOR METHOD OF ABSOLUTE PHOTOMETRY.*

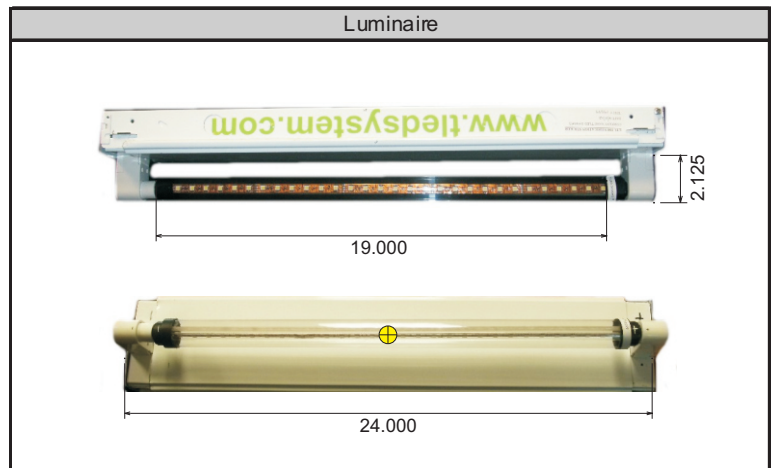
Candela Distribution

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	Flux
0	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	
5	129	129	128	128	128	128	128	128	129	128	128	128	128	128	128	129	12.2
15	131	130	129	126	124	124	123	123	124	123	123	124	124	126	129	130	35.6
25	135	134	125	120	117	116	114	116	117	116	114	116	117	120	125	134	56.0
35	121	122	124	110	106	104	106	105	103	105	106	104	106	110	124	122	68.0
45	114	110	101	100	91	89	89	0	0	0	89	89	91	100	101	110	60.3
55	103	99	91	82	70	71	0	0	0	0	0	71	70	82	91	99	51.8
65	83	80	74	53	45	23	0	0	0	0	0	23	45	53	74	80	39.1
75	63	59	47	38	18	0	0	0	0	0	0	0	18	38	47	59	25.7
85	40	37	30	18	2	0	0	0	0	0	0	0	2	18	30	37	14.9
90	34	31	24	12	0	0	0	0	0	0	0	0	0	12	24	31	
95	32	30	23	13	1	0	0	0	0	0	0	0	1	13	23	30	11.8
105	41	37	30	22	12	0	0	0	0	0	0	0	12	22	30	37	16.5
115	49	48	42	37	29	15	0	0	0	0	0	15	29	37	42	48	24.0
125	59	56	54	51	43	44	0	0	0	0	0	44	43	51	54	56	31.1
135	67	66	65	59	55	53	56	1	0	1	56	53	55	59	65	66	37.2
145	76	73	71	67	64	65	64	69	71	69	64	65	64	67	71	73	41.9
155	79	77	73	71	70	73	70	68	69	68	70	73	70	71	73	77	33.3
165	80	78	75	75	74	76	77	74	75	74	77	76	74	75	75	78	21.5
175	78	75	74	75	76	77	77	77	78	77	77	77	76	75	74	75	7.3
180	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	

Zonal Lumen Summary

Zone	Lumens	% of Lamp	% of Luminaire
0-30	103.7	N/A	17.6%
0-40	171.7	N/A	29.2%
0-60	283.9	N/A	48.3%
0-90	363.6	N/A	61.8%
90-180	224.6	N/A	38.2%
0-180	588.2	N/A	100.0%

Total lumen Output: 588.2 Lumens
Luminaire efficacy: 35.9 Lumens per Watt
CIE Type: Semi-Direct
Spacing Criterion: 0 deg: 1.43 90 deg: 1.30
180 deg: 1.29 270 deg: 1.30



Approved By: MG

*DATA WAS ACQUIRED USING THE CALIBRATED PHOTODETECTOR METHOD OF ABSOLUTE PHOTOMETRY. A UDT MODEL #211 PHOTODETECTOR AND UDT MODEL #S370 OPTOMETER COMBINATION WERE USED AS A STANDARD. A SPECTRAL MISMATCH CORRECTION FACTOR WAS EMPLOYED BASED ON THE SPECTRAL RESPONSIVITY OF THE PHOTODETECTOR AND THE SPECTRAL POWER DISTRIBUTION OF THE TEST SUBJECT.

TESTING WAS PERFORMED IN ACCORDANCE WITH IES LM-79-08.

TEST ANGULAR INCREMENTS AND REPORT FORMATTING WAS BASED ON IES LM-41-98 AND LM-46-04.



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Candela Tabulation (5 degree Vertical Increments)

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128
5	129	129	128	128	128	128	128	128	129	128	128	128	128	128	128	129
10	130	129	128	127	127	127	126	126	126	126	126	127	127	127	128	129
15	131	130	129	126	124	124	123	123	124	123	123	124	124	126	129	130
20	133	131	127	123	121	121	119	119	120	119	119	121	121	123	127	131
25	135	134	125	120	117	116	114	116	117	116	114	116	117	120	125	134
30	132	133	126	116	112	111	110	112	112	112	110	111	112	116	126	133
35	121	122	124	110	106	104	106	105	103	105	106	104	106	110	124	122
40	115	110	115	104	100	96	100	49	1	49	100	96	100	104	115	110
45	114	110	101	100	91	89	89	0	0	0	89	89	91	100	101	110
50	110	106	94	94	81	81	9	0	0	0	9	81	81	94	94	106
55	103	99	91	82	70	71	0	0	0	0	0	71	70	82	91	99
60	94	90	84	65	58	59	0	0	0	0	0	59	58	65	84	90
65	83	80	74	53	45	23	0	0	0	0	0	23	45	53	74	80
70	72	67	61	48	31	0	0	0	0	0	0	0	31	48	61	67
75	63	59	47	38	18	0	0	0	0	0	0	0	18	38	47	59
80	52	49	41	25	8	0	0	0	0	0	0	0	8	25	41	49
85	40	37	30	18	2	0	0	0	0	0	0	0	2	18	30	37
90	34	31	24	12	0	0	0	0	0	0	0	0	0	12	24	31
95	32	30	23	13	1	0	0	0	0	0	0	0	1	13	23	30
100	35	35	30	15	5	0	0	0	0	0	0	0	5	15	30	35
105	41	37	30	22	12	0	0	0	0	0	0	0	12	22	30	37
110	44	41	37	30	21	1	0	0	0	0	0	1	21	30	37	41
115	49	48	42	37	29	15	0	0	0	0	0	15	29	37	42	48
120	56	52	48	44	35	36	0	0	0	0	0	36	35	44	48	52
125	59	56	54	51	43	44	0	0	0	0	0	44	43	51	54	56
130	63	61	60	55	50	48	12	0	0	0	12	48	50	55	60	61
135	67	66	65	59	55	53	56	1	0	1	56	53	55	59	65	66
140	72	71	69	63	60	60	63	36	14	36	63	60	60	63	69	71
145	76	73	71	67	64	65	64	69	71	69	64	65	64	67	71	73
150	80	76	73	69	67	68	65	69	71	69	65	68	67	69	73	76
155	79	77	73	71	70	73	70	68	69	68	70	73	70	71	73	77
160	79	76	76	74	72	76	73	72	73	72	73	76	72	74	76	76
165	80	78	75	75	74	76	77	74	75	74	77	76	74	75	75	78
170	78	77	78	74	75	76	78	79	80	79	78	76	75	74	78	77
175	78	75	74	75	76	77	77	77	78	77	77	77	76	75	74	75
180	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77

Zonal Lumen Tabulation (5 degree zones)

Zone	Lumens	Zone	Lumens	Zone	Lumens	Zone	Lumens
0-5	3.1	45-50	29.3	90-95	5.6	135-140	19.5
5-10	9.1	50-55	26.7	95-100	6.2	140-145	21.5
10-15	15.0	55-60	25.1	100-105	7.7	145-150	20.4
15-20	20.5	60-65	21.6	105-110	8.8	150-155	17.9
20-25	25.7	65-70	17.4	110-115	10.8	155-160	15.4
25-30	30.3	70-75	14.3	115-120	13.2	160-165	12.4
30-35	33.8	75-80	11.4	120-125	15.1	165-170	9.1
35-40	34.3	80-85	8.6	125-130	16.0	170-175	5.5
40-45	31.1	85-90	6.3	130-135	17.7	175-180	1.8



Utilization of Lumens - Zonal Cavity Method												
Effective Floor Cavity Reflectance 20%												
Ceiling Cavity Reflectance	90				80				70			
Wall Reflectance	70	50	30	10	70	50	30	10	70	50	30	10
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **											
0	689.9	689.9	689.9	689.9	646.8	646.8	646.8	646.8	605.6	605.6	605.6	605.6
1	628.3	596.8	568.8	543.7	587.5	560.1	535.5	513.4	548.8	525	503.5	484
2	572.7	520.2	477.3	441.5	534.6	488.7	450.7	418.8	498.6	458.6	425.1	396.6
3	523	456.9	406.5	366.8	487.9	429.8	384.9	349.1	454.7	403.8	363.8	331.6
4	479	404.4	350.7	310.2	446.7	380.9	332.7	295.9	416.3	358.3	315.2	281.8
5	440.1	360.4	305.8	266	410.5	339.9	290.6	254.2	382.7	320.2	275.8	242.6
6	405.6	323.4	269.3	231	378.6	305.5	256.4	221.2	353.2	288.2	243.7	211.4
7	375.2	292.1	239.3	202.8	350.5	276.3	228.1	194.4	327.2	261	217.2	186.2
8	348.2	265.2	214.2	179.5	325.6	251.2	204.5	172.4	304.3	237.7	195	165.3
9	324.2	242.2	193	160.3	303.5	229.7	184.6	154.1	283.9	217.6	176.2	147.9
10	302.8	222.3	175	144	283.8	211.1	167.5	138.6	265.8	200.2	160.2	133.2

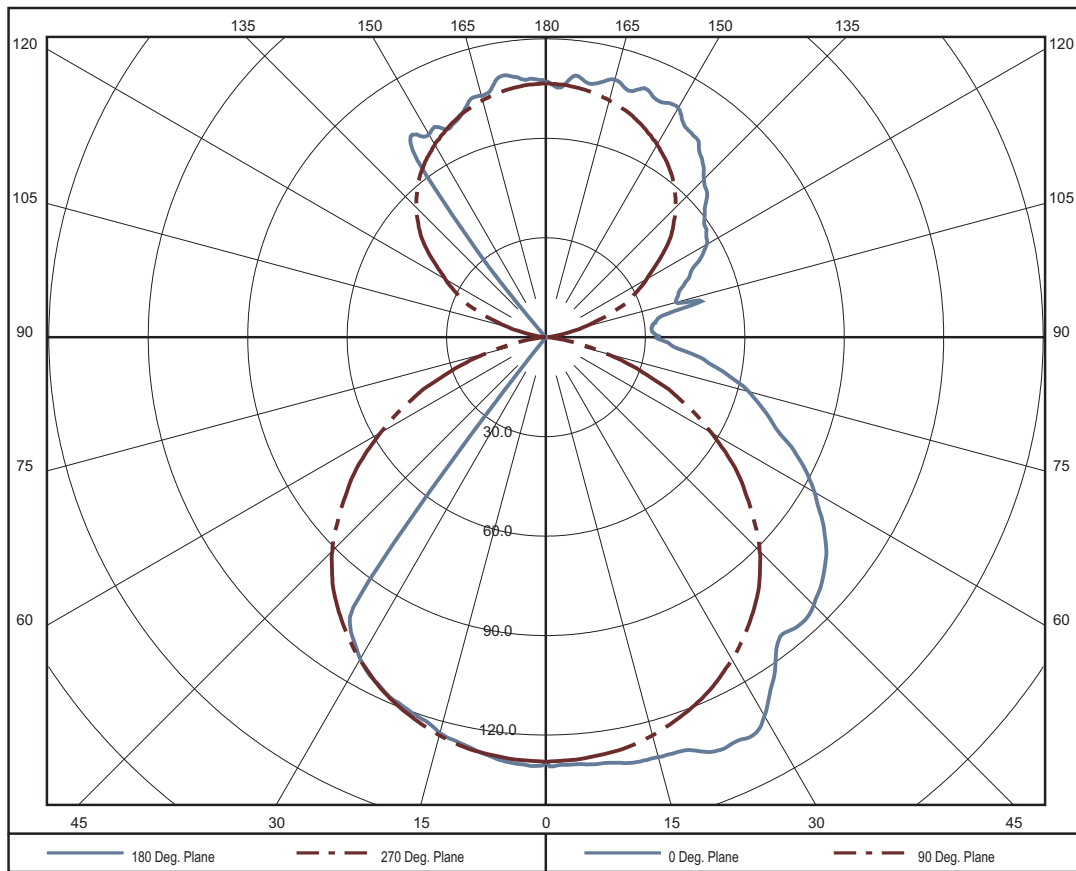
Ceiling Cavity Reflectance	50				30			10			0
Wall Reflectance	70	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **										
0	528.8	528.8	528.8	528.8	458.5	458.5	458.5	393.9	393.9	393.9	363.6
1	477	459.2	443	428.1	398.8	386.8	375.6	343.1	334.4	326.3	299.5
2	432.2	402	376.2	353.9	349.8	330.2	313	301.5	287	274.1	250.1
3	393.6	354.8	323.5	297.7	309.4	285.3	265	267.3	249	233.4	211.8
4	360.3	315.7	281.4	254.2	276.1	249.2	227.4	239.2	218.5	201.4	181.9
5	331.5	283	247.2	219.8	248.2	219.9	197.6	215.8	193.6	175.8	158.2
6	306.4	255.4	219.2	192.3	224.8	195.7	173.5	196.1	173	155	139.1
7	284.4	231.9	196	169.8	204.7	175.5	153.8	179.2	155.8	137.9	123.4
8	265	211.8	176.5	151.2	187.6	158.6	137.4	164.7	141.3	123.7	110.4
9	247.8	194.5	159.9	135.7	172.7	144.2	123.7	152.2	128.9	111.8	99.52
10	232.5	179.4	145.8	122.6	159.8	131.8	112	141.2	118.2	101.6	90.32

Average Luminance Table (cd/m²)

	0	45	90
0	8368	8368	8368
45	5549	5702	8416
55	5104	5395	7985
65	4383	4801	6929
75	3661	3548	4545
85	2665	2748	1188

Note: The zonal cavity calculation technique is accurate when luminaires with symmetric candela distributions are employed and when the luminaires are located symmetrically throughout the room. This unit has special characteristics and therefore these values should be used with caution.

THIS TEST WAS CONDUCTED USING PHOTOMETRY TECHNIQUES ACCORDING TO STANDARD IES PROCEDURES. THE USER MUST THEREFORE USE CAUTION IN THE FOLLOWING SITUATIONS: 1) THIS TEST WAS PERFORMED USING A SPECIFIC BALLAST/LAMP COMBINATION. EXTRAPOLATION OF THESE DATA FOR OTHER BALLAST/LAMP COMBINATIONS MAY PRODUCE ERRONEOUS RESULTS. 2) THIS TEST WAS CONDUCTED IN A CONTROLLED LABORATORY ENVIRONMENT WHERE THE AMBIENT TEMPERATURE WAS HELD AT 25°C ±1°C. FIELD PERFORMANCE MAY DIFFER PARTICULARLY IN REGARDS TO CHANGE IN LUMINOUS OUTPUT AS A RESULT OF DIFFERENCE IN AMBIENT TEMPERATURE AND METHOD OF MOUNTING THE LUMINAIRE.





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