

**itl boulder**  
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

**NVLAP**  
NVLAP LAB CODE: 200925-0

INDEPENDENT TESTING LABORATORIES, INC.  
4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

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REPORT NUMBER: ITL85162

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ISSUE DATE: 09/10/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: S12-LED-ID-DCO-4ft-2E-V-8-35-FTO

LUMINAIRE: FABRICATED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR

FINISH, WHITE PAINTED FLAT METAL END CAPS, 2 FORMED WHITE PAINTED METAL OUTBOARD REFLECTORS/DRIVER COVERS, 2 WHITE CIRCUIT BOARDS EACH WITH 80 LEDS, FROSTED HOLOGRAPHIC FLAT PLASTIC TOP LENS, TRANSLUCENT WHITE HOLOGRAPHIC PLASTIC BOTTOM LENS. TOP LENS FROSTED SIDE UP.

LAMPS: ONE HUNDRED SIXTY WHITE LIGHT EMITTING DIODES (LEDs), AIMED 2-DEGREES BELOW THE HORIZON.

INPUT ELECTRICAL: 277.0 VOLTS, 38.0 WATTS, 0.145 AMPS

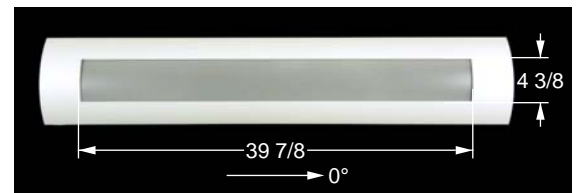
MOUNTING: SUSPENDED

LED DRIVER: OSRAM OT50W/PRG1400C/UNV/DIM/L, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST, CLIENT STATES DRIVER PROGRAMMED FOR 700mA OUTPUT.

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (277VAC, 60Hz) TO THE DRIVER.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 35.0 FEET



#### CANDELA DISTRIBUTION

#### FLUX

	0.0	22.5	45.0	67.5	90.0	
0	551	551	551	551	551	
5	548	548	549	549	550	52
15	531	529	536	539	539	151
25	495	495	506	514	516	233
35	441	443	458	470	473	286
45	372	375	391	403	407	300
55	292	295	308	319	323	274
65	199	204	212	220	222	210
75	104	108	113	123	126	122
85	22	27	36	44	47	41
90	0	6	15	24	27	
95	42	51	67	78	78	73
105	149	176	225	260	272	232
115	269	325	425	495	521	405
125	379	459	607	711	745	520
135	459	543	711	834	875	529
145	508	573	718	830	869	440
155	531	568	662	738	765	303
165	537	551	590	622	637	168
175	535	537	543	547	548	52
180	536	536	536	536	536	

#### ZONAL LUMEN SUMMARY

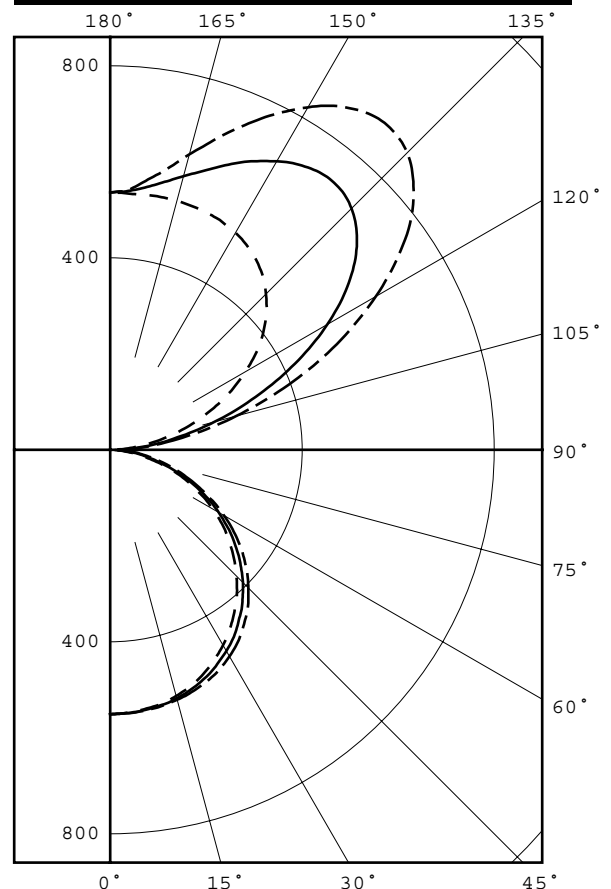
ZONE	LUMENS	%FIXT
0- 30	436	9.9
0- 40	722	16.4
0- 60	1297	29.5
0- 90	1669	38.0
90-120	709	16.2
90-130	1229	28.0
90-150	2199	50.1
90-180	2722	62.0
0-180	4391	100.0

EFFICACY (277V) = 115.6 lm/W

EFFICACY (120V) = 118.4 lm/W \*\*

\*\* THE EFFICACY AT 120 VOLTS IS BASED ON THE LUMENS FROM THIS REPORT AND THE WATTAGE MEASURED AT 120 VOLTS FROM ITL REPORT NUMBER ITL85162-THD.

CIE TYPE - SEMI-INDIRECT



#### LEGEND:

0-deg -----  
45-deg =====  
90-deg -----

Checked M KLOPF

Approved R BEATTIE  
Lighting Engineer



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LUMINANCE DATA IN CANDELA/SQ M				
ANGLE	AVERAGE	AVERAGE	AVERAGE	
IN DEG	0-DEG	45-DEG	90-DEG	
45	4673.	4911.	5112.	
55	4521.	4769.	5002.	
65	4185.	4459.	4669.	
75	3566.	3875.	4255.	
85	2243.	2862.	3100.	



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CANDELA DISTRIBUTION  
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	551	551	551	551	551
5.0	548	548	549	549	550
10.0	542	541	544	546	546
15.0	531	529	536	539	539
20.0	516	514	523	529	529
25.0	495	495	506	514	516
30.0	470	471	484	495	497
35.0	441	443	458	470	473
40.0	409	411	427	439	443
45.0	372	375	391	403	407
50.0	333	337	351	363	367
55.0	292	295	308	319	323
60.0	247	250	261	270	274
65.0	199	204	212	220	222
70.0	153	155	162	170	172
75.0	104	108	113	123	126
80.0	61	63	72	80	82
85.0	22	27	36	44	47
90.0	0	6	15	24	27
95.0	42	51	67	78	78
100.0	92	112	135	155	162
105.0	149	176	225	260	272
110.0	209	250	322	376	395
115.0	269	325	425	495	521
120.0	325	396	522	610	639
125.0	379	459	607	711	745
130.0	423	508	671	788	825
135.0	459	543	711	834	875
140.0	488	565	726	848	889
145.0	508	573	718	830	869
150.0	522	573	694	791	824
155.0	531	568	662	738	765
160.0	535	560	624	678	700
165.0	537	551	590	622	637
170.0	537	543	562	577	584
175.0	535	537	543	547	548
180.0	536	536	536	536	536



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	13
5- 10	39
10- 15	64
15- 20	87
20- 25	108
25- 30	125
30- 35	139
35- 40	147
40- 45	151
45- 50	149
50- 55	143
55- 60	131
60- 65	115
65- 70	95
70- 75	72
75- 80	50
80- 85	29
85- 90	13
90- 95	20
95-100	53
100-105	93
105-110	138
110-115	183
115-120	222
120-125	252
125-130	269
130-135	271
135-140	259
140-145	236
145-150	204
150-155	169
155-160	134
160-165	100
165-170	68
170-175	39
175-180	13

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	52
0- 20	203
0- 30	436
0- 40	722
0- 50	1022
0- 60	1297
0- 70	1506
0- 80	1628
0- 90	1669
0-100	1742
0-110	1974
0-120	2378
0-130	2899
0-140	3428
0-150	3868
0-160	4171
0-170	4339
0-180	4391



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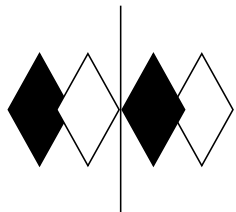
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# COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

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
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	83	86	82	79	76	67	64	62	53	51	50	39	38	38	32
2	86	79	73	67	78	72	66	62	58	55	51	46	43	41	34	33	31	26
3	78	69	62	56	71	63	57	51	51	47	43	40	37	34	30	28	26	22
4	72	61	53	47	65	56	49	43	45	40	36	36	32	29	27	25	23	19
5	66	54	46	40	59	49	42	37	40	35	31	32	28	25	24	22	20	16
6	60	48	40	35	54	44	37	32	36	31	27	29	25	22	22	19	17	14
7	56	43	36	30	50	40	33	28	33	27	24	26	22	19	20	17	15	12
8	52	39	32	26	47	36	29	25	30	25	21	24	20	17	18	15	13	11
9	48	36	28	23	43	33	26	22	27	22	18	22	18	15	17	14	12	10
10	45	33	26	21	40	30	24	19	25	20	17	20	16	14	16	13	11	9

ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS TEST SAMPLE.



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