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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: ITL85161

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ISSUE DATE: 09/09/15

PREPARED FOR: FINELITE, INC.

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

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, TRANSLUCENT WHITE HOLOGRAPHIC PLASTIC BOTTOM LENS. OPEN TOP.

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

INPUT ELECTRICAL: 277.0 VOLTS, 38.2 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

	0.0	22.5	45.0	67.5	90.0	
0	411	411	411	411	411	
5	409	409	410	410	410	39
15	396	395	400	403	403	113
25	369	369	378	386	388	174
35	328	331	343	354	358	214
45	277	281	294	305	311	226
55	217	220	232	242	247	207
65	149	152	160	169	172	159
75	79	81	87	96	98	94
85	16	20	29	37	40	33
90	0	4	11	17	20	
95	29	327	635	632	323	390
105	82	418	751	929	986	698
115	136	454	754	949	1014	679
125	184	431	762	913	963	610
135	219	404	673	853	906	485
145	241	364	571	712	759	338
155	251	316	454	555	588	203
165	254	274	335	389	407	96
175	253	253	259	265	267	26
180	253	253	253	253	253	

FLUX

ZONAL LUMEN SUMMARY

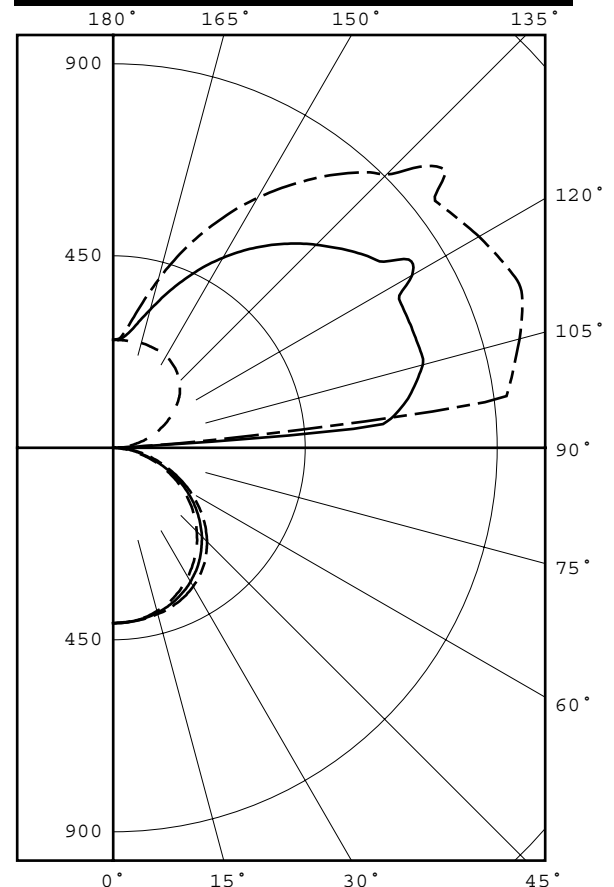
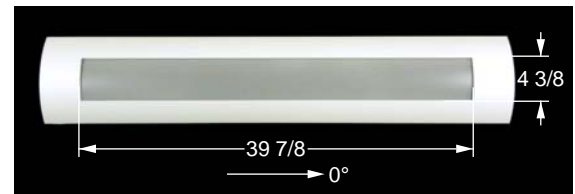
ZONE	LUMENS	%FIXT
0- 30	326	6.8
0- 40	540	11.3
0- 60	973	20.3
0- 90	1258	26.3
90-120	1768	37.0
90-130	2378	49.7
90-150	3201	66.9
90-180	3526	73.7
0-180	4784	100.0

EFFICACY (277V) = 125.2 lm/W

EFFICACY (120V) = 128.3 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 ITL85161-THD.

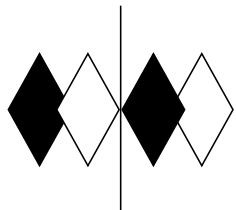
CIE TYPE - SEMI-INDIRECT



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	3479.	3693.	3906.
55	3360.	3592.	3825.
65	3134.	3365.	3617.
75	2709.	2983.	3309.
85	1632.	2305.	2638.



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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	411	411	411	411	411
5.0	409	409	410	410	410
10.0	405	404	406	408	408
15.0	396	395	400	403	403
20.0	385	383	391	396	397
25.0	369	369	378	386	388
30.0	350	351	362	372	375
35.0	328	331	343	354	358
40.0	304	307	320	331	337
45.0	277	281	294	305	311
50.0	248	252	264	275	281
55.0	217	220	232	242	247
60.0	184	187	197	206	211
65.0	149	152	160	169	172
70.0	113	116	123	131	134
75.0	79	81	87	96	98
80.0	46	48	56	63	66
85.0	16	20	29	37	40
90.0	0	4	11	17	20
95.0	29	327	635	632	323
100.0	54	393	706	888	948
105.0	82	418	751	929	986
110.0	109	478	754	962	1020
115.0	136	454	754	949	1014
120.0	161	441	809	931	990
125.0	184	431	762	913	963
130.0	204	419	720	949	1014
135.0	219	404	673	853	906
140.0	232	385	624	786	839
145.0	241	364	571	712	759
150.0	247	340	514	636	676
155.0	251	316	454	555	588
160.0	253	294	393	472	499
165.0	254	274	335	389	407
170.0	253	261	288	316	325
175.0	253	253	259	265	267
180.0	253	253	253	253	253



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	10
5- 10	29
10- 15	48
15- 20	65
20- 25	81
25- 30	94
30- 35	104
35- 40	111
40- 45	114
45- 50	113
50- 55	108
55- 60	99
60- 65	87
65- 70	72
70- 75	55
75- 80	38
80- 85	23
85- 90	10
90- 95	83
95-100	308
100-105	342
105-110	356
110-115	347
115-120	332
120-125	316
125-130	293
130-135	262
135-140	224
140-145	187
145-150	151
150-155	117
155-160	86
160-165	59
165-170	37
170-175	20
175-180	6

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	39
0- 20	152
0- 30	326
0- 40	540
0- 50	766
0- 60	973
0- 70	1132
0- 80	1225
0- 90	1258
0-100	1649
0-110	2347
0-120	3026
0-130	3636
0-140	4121
0-150	4459
0-160	4662
0-170	4758
0-180	4784



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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	102	102	102	102	91	91	91	91	70	70	70	52	52	52	34	34	34	26
1	92	88	84	81	82	79	75	73	61	59	57	45	44	42	30	29	29	22
2	84	77	71	66	75	69	64	59	53	50	47	39	37	35	26	25	24	18
3	76	67	60	54	68	60	54	49	47	43	39	35	32	29	23	21	20	15
4	70	59	52	46	62	53	47	41	41	37	33	31	28	25	21	19	17	13
5	64	53	45	39	57	47	40	35	37	32	28	27	24	21	18	16	15	11
6	59	47	39	33	52	42	35	30	33	28	24	25	21	19	17	15	13	10
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11	8
8	50	38	31	25	44	34	28	23	27	22	19	20	17	14	14	12	10	8
9	46	35	27	22	41	31	25	20	25	20	17	18	15	13	13	11	9	7
10	43	32	25	20	38	28	22	18	23	18	15	17	14	11	12	10	8	6

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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