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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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

INDEPENDENT TESTING LABORATORIES, INC.  
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REPORT NUMBER: ITL85160

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ISSUE DATE: 09/08/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: S17-LED-ACF-SF-4ft-V-8-35

LUMINAIRE: EXTRUDED SEMI-DIFFUSE METAL REAR HOUSING, WHITE PAINTED FLAT METAL END CAPS EACH WITH SPECULAR FLAT METAL INTERIOR PIECE, FORMED WHITE PAINTED METAL FORWARD HOUSING PIECE, FORMED WHITE PAINTED METAL REFLECTOR/CIRCUIT BOARD MOUNT, 4 WHITE CIRCUIT BOARDS EACH WITH 40 LEDS, FROSTED HOLOGRAPHIC FLAT PLASTIC UPPER AND LOWER LENSES, UPPER LENS FROSTED SIDE DOWN, LOWER LENS FROSTED BOTH SIDES.

LAMPS: ONE HUNDRED SIXTY WHITE LIGHT EMITTING DIODES (LEDS), 80 UPPER LEDS AIMED 22-DEGREES ABOVE THE HORIZON, 80 LOWER LEDS AIMED 40-DEGREES BELOW THE HORIZON.

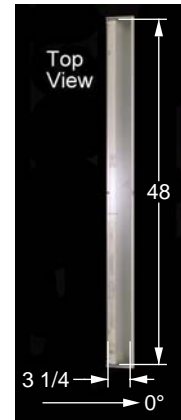
INPUT ELECTRICAL: 277.0 VOLTS, 38.0 WATTS, 0.145 AMPS  
MOUNTING: WALL

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	45.0	90.0	135.0	180.0	FLUX
0	107	107	107	107	107	11
5	79	86	107	133	144	33
15	40	53	103	184	217	52
25	16	28	94	207	228	61
35	5	12	81	193	196	63
45	1	4	64	165	185	64
55	0	0	47	146	186	62
65	0	0	30	129	180	54
75	0	0	16	109	160	43
85	0	0	4	85	133	47
90	0	0	0	69	113	119
95	5	9	25	69	102	238
105	74	116	116	110	124	355
115	238	289	240	209	205	421
125	483	495	377	323	314	412
135	721	669	516	439	425	339
145	842	773	637	544	528	222
155	871	828	730	640	617	78
165	874	852	791	726	701	
175	850	842	819	796	787	
180	824	824	824	824	824	

#### ZONAL LUMEN SUMMARY

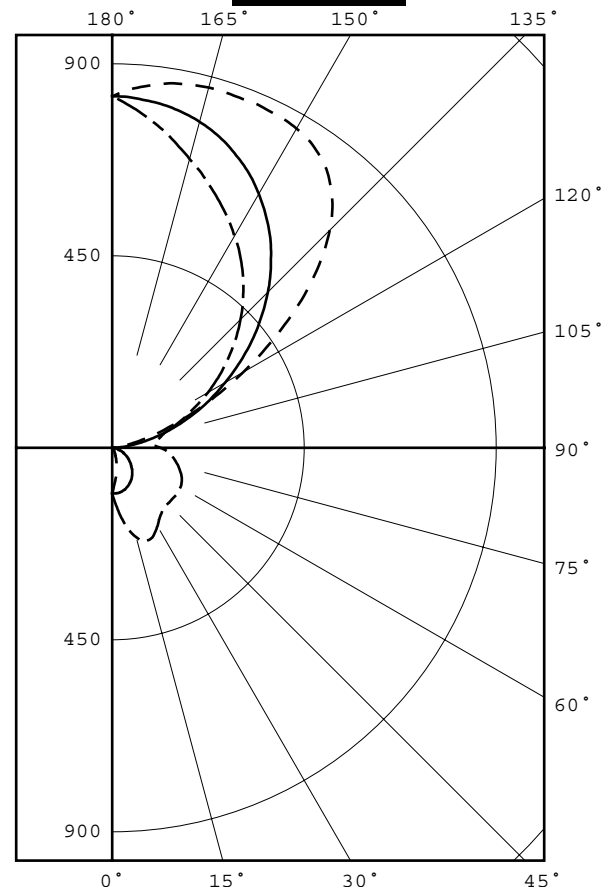
ZONE	LUMENS	%FIXT
0- 30	95	3.6
0- 40	156	5.8
0- 60	284	10.6
0- 90	443	16.6
90-120	404	15.1
90-130	759	28.4
90-150	1591	59.5
90-180	2230	83.4
0-180	2673	100.0

EFFICACY (277V) = 70.3 lm/W

EFFICACY (120V) = 72.0 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 ITL85160-THD.

CIE TYPE - SEMI-INDIRECT



#### LEGEND:

0-deg ---  
90-deg ---  
180-deg ---

Checked M KLOPF

Approved R BEATTIE  
Lighting Engineer



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# CANDELA DISTRIBUTION

## LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0.0	107	107	107	107	107	107	107	107	107
5.0	79	80	86	95	107	120	133	141	144
10.0	57	59	68	83	106	133	160	178	185
15.0	40	42	53	72	103	144	184	209	217
20.0	26	29	39	61	99	152	200	225	232
25.0	16	18	28	51	94	156	207	225	228
30.0	10	11	19	41	88	157	204	212	212
35.0	5	7	12	33	81	152	193	196	196
40.0	1	2	8	24	73	143	178	185	187
45.0	1	1	4	17	64	132	165	178	185
50.0	0	0	1	11	56	120	154	176	185
55.0	0	0	0	6	47	107	146	174	186
60.0	0	0	0	3	39	94	138	171	185
65.0	0	0	0	1	30	83	129	167	180
70.0	0	0	0	0	23	72	120	158	171
75.0	0	0	0	0	16	62	109	146	160
80.0	0	0	0	0	10	52	97	133	147
85.0	0	0	0	0	4	43	85	120	133
90.0	0	0	0	0	0	31	69	101	113
95.0	5	6	9	23	25	36	69	93	102
100.0	27	31	51	70	65	63	79	101	109
105.0	74	83	116	129	116	107	110	118	124
110.0	142	160	197	199	175	159	156	159	160
115.0	238	256	289	277	240	215	209	207	205
120.0	354	371	391	359	306	274	265	260	259
125.0	483	495	495	441	377	335	323	316	314
130.0	612	612	590	518	448	397	381	372	370
135.0	721	711	669	589	516	458	439	427	425
140.0	797	781	729	650	579	516	493	481	478
145.0	842	824	773	701	637	572	544	531	528
150.0	864	848	805	744	687	624	593	577	573
155.0	871	860	828	778	730	671	640	621	617
160.0	873	867	845	804	765	715	685	664	659
165.0	874	868	852	822	791	751	726	707	701
170.0	867	863	852	831	809	782	763	750	746
175.0	850	848	842	831	819	806	796	789	787
180.0	824	824	824	824	824	824	824	824	824



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	3
5- 10	8
10- 15	14
15- 20	19
20- 25	24
25- 30	28
30- 35	30
35- 40	31
40- 45	31
45- 50	32
50- 55	32
55- 60	32
60- 65	31
65- 70	30
70- 75	28
75- 80	26
80- 85	23
85- 90	20
90- 95	19
95-100	28
100-105	47
105-110	73
110-115	103
115-120	135
120-125	165
125-130	190
130-135	207
135-140	214
140-145	212
145-150	200
150-155	181
155-160	157
160-165	128
165-170	95
170-175	58
175-180	20

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	11
0- 20	44
0- 30	95
0- 40	156
0- 50	219
0- 60	284
0- 70	345
0- 80	400
0- 90	443
0-100	490
0-110	609
0-120	847
0-130	1202
0-140	1623
0-150	2034
0-160	2373
0-170	2595
0-180	2673



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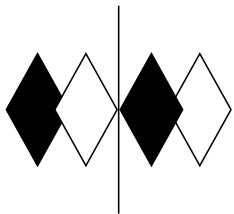
# COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	99	99	99	99	87	87	87	87	65	65	65	44	44	44	25	25	25	17
1	90	85	81	78	78	75	72	69	55	53	51	38	36	35	21	21	20	12
2	81	74	68	63	71	65	60	56	48	45	42	33	31	29	18	17	16	10
3	74	65	57	52	64	57	51	46	42	38	35	29	26	24	16	15	14	8
4	67	57	49	43	59	50	44	39	37	33	29	25	22	20	14	13	11	7
5	62	50	43	37	54	44	38	33	33	28	25	22	20	17	13	11	10	6
6	57	45	37	32	49	40	33	28	30	25	21	20	17	15	11	10	9	5
7	52	40	33	27	45	36	29	24	27	22	19	18	15	13	10	9	7	4
8	48	36	29	24	42	32	26	21	24	20	16	17	14	11	9	8	7	4
9	45	33	26	21	39	29	23	19	22	17	14	15	12	10	9	7	6	3
10	42	30	23	18	36	27	21	17	20	16	13	14	11	9	8	6	5	3

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.

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 COEFFICIENTS SHOULD BE USED WITH CAUTION.



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