

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

PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL85121

ISSUE DATE: 08/04/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: S16-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, TWO FORMED WHITE PAINTED METAL OUTBOARD REFLECTORS/DRIVER COVERS, ONE FORMED WHITE PAINTED METAL WIREWAY COVER ON EACH END OF OPTICAL COMPARTMENT, TWO WHITE CIRCUIT BOARDS EACH WITH 80 LEDS, FROSTED HOLOGRAPHIC FLAT TOP LENS, FROSTED HOLOGRAPHIC FLAT BOTTOM LENS. TOP LENS FROSTED SIDE UP. BOTTOM LENS FROSTED BOTH SIDES.

LAMPS: ONE HUNDRED SIXTY WHITE LIGHT EMITTING DIODES (LEDs), AIMED 3-DEGREES ABOVE THE HORIZON.

INPUT ELECTRICAL: 277.0 VOLTS, 38.1 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	540	540	540	540	540	51
5	538	538	539	539	539	149
15	524	522	529	533	533	231
25	491	489	502	511	513	285
35	440	442	456	468	472	300
45	373	375	390	402	407	273
55	292	295	307	317	320	209
65	202	204	211	218	222	118
75	107	108	111	114	117	30
85	24	25	26	26	26	57
90	0	0	0	0	0	229
95	43	48	53	53	51	410
105	153	178	224	252	264	533
115	278	334	431	498	519	549
125	393	475	622	723	756	462
135	481	569	738	860	901	321
145	535	606	757	871	909	178
155	560	601	703	785	811	55
165	567	583	627	665	678	
175	567	569	575	580	582	
180	567	567	567	567	567	

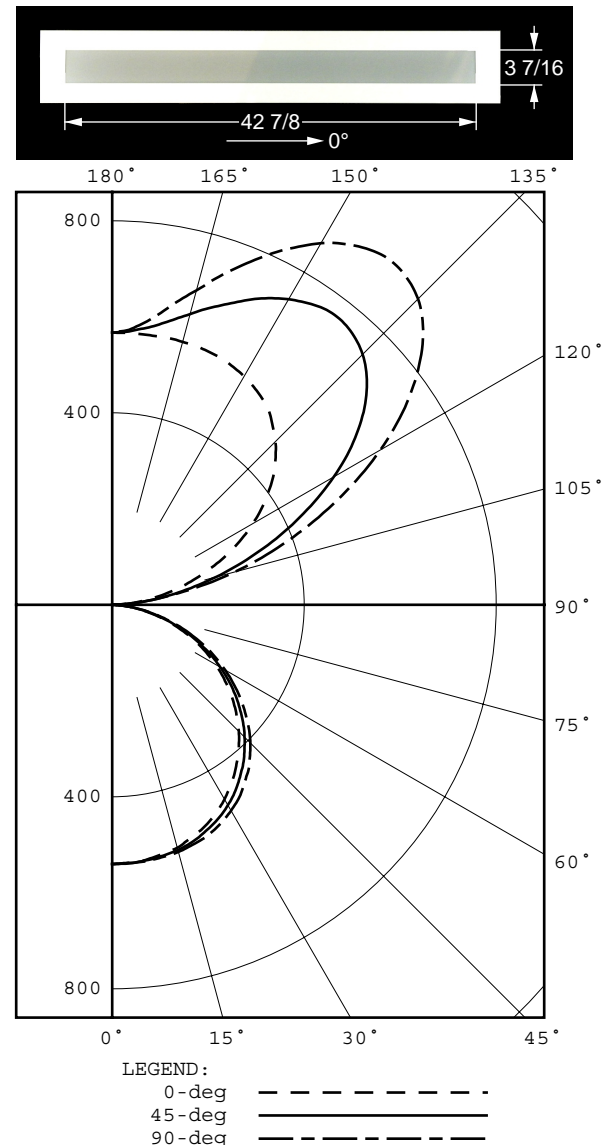
ZONAL LUMEN SUMMARY	
ZONE	LUMENS
0- 30	431
0- 40	716
0- 60	1290
0- 90	1647
90-120	696
90-130	1229
90-150	2240
90-180	2795
0-180	4442
%FIXT	
	9.7
	16.1
	29.0
	37.1
	15.7
	27.7
	50.4
	62.9
	100.0

EFFICACY (277V) = 116.6 lm/W

EFFICACY (120V) = 119.1 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 ITL85121-THD.

CIE TYPE - SEMI-INDIRECT



Checked M KLOPF
Approved R BEATTIE
Lighting Engineer



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PLANE : 0-DEG 90-DEG
LUMINOUS LENGTH : 42.875 3.437

LUMINANCE DATA IN CANDELA/SQ M			
ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	45-DEG	90-DEG
45	5548.	5801.	6053.
55	5354.	5629.	5867.
65	5027.	5251.	5524.
75	4348.	4510.	4754.
85	2896.	3137.	3137.



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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	540	540	540	540	540
5.0	538	538	539	539	539
10.0	532	533	535	537	537
15.0	524	522	529	533	533
20.0	509	508	518	524	525
25.0	491	489	502	511	513
30.0	468	468	482	493	495
35.0	440	442	456	468	472
40.0	408	410	426	438	443
45.0	373	375	390	402	407
50.0	334	337	350	362	365
55.0	292	295	307	317	320
60.0	248	251	260	269	272
65.0	202	204	211	218	222
70.0	154	155	161	166	169
75.0	107	108	111	114	117
80.0	62	63	65	67	68
85.0	24	25	26	26	26
90.0	0	0	0	0	0
95.0	43	48	53	53	51
100.0	95	109	132	140	141
105.0	153	178	224	252	264
110.0	215	256	326	373	389
115.0	278	334	431	498	519
120.0	338	408	533	617	645
125.0	393	475	622	723	756
130.0	442	529	692	805	844
135.0	481	569	738	860	901
140.0	513	593	759	880	922
145.0	535	606	757	871	909
150.0	550	606	735	836	870
155.0	560	601	703	785	811
160.0	565	592	664	724	745
165.0	567	583	627	665	678
170.0	567	575	595	614	622
175.0	567	569	575	580	582
180.0	567	567	567	567	567



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	13
5- 10	38
10- 15	63
15- 20	86
20- 25	107
25- 30	124
30- 35	138
35- 40	147
40- 45	151
45- 50	149
50- 55	143
55- 60	131
60- 65	114
65- 70	94
70- 75	71
75- 80	47
80- 85	24
85- 90	6
90- 95	10
95-100	47
100-105	91
105-110	138
110-115	185
115-120	226
120-125	257
125-130	276
130-135	280
135-140	269
140-145	247
145-150	215
150-155	179
155-160	142
160-165	106
165-170	72
170-175	42
175-180	14

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	51
0- 20	200
0- 30	431
0- 40	716
0- 50	1016
0- 60	1290
0- 70	1498
0- 80	1616
0- 90	1647
0-100	1704
0-110	1933
0-120	2343
0-130	2876
0-140	3424
0-150	3887
0-160	4208
0-170	4386
0-180	4442



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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	94	94	94	94	76	76	76	60	60	60	44	44	44	37
1	95	90	87	83	86	82	79	76	66	64	62	52	51	49	39	38	37	31
2	86	79	73	68	78	72	66	62	58	54	51	46	43	41	34	32	31	26
3	78	69	62	56	71	63	57	51	51	46	43	40	37	34	30	28	26	21
4	72	61	53	47	65	55	49	43	45	40	36	36	32	29	27	24	22	18
5	66	54	46	40	59	49	42	37	40	35	31	32	28	25	24	21	19	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	23	26	22	19	20	17	15	12
8	51	39	32	26	46	36	29	24	30	24	21	24	20	17	18	15	13	11
9	48	36	28	23	43	33	26	22	27	22	18	22	18	15	16	14	12	10
10	45	33	26	21	40	30	24	19	25	20	16	20	16	14	15	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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