

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: ITL85120

ISSUE DATE: 08/03/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: S16-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, 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 BOTTOM LENS. BOTTOM LENS FROSTED BOTH SIDES. OPEN TOP.

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

	0.0	22.5	45.0	67.5	90.0	FLUX
0	361	361	361	361	361	
5	359	360	360	361	361	34
15	350	349	355	359	359	100
25	328	328	339	347	350	156
35	295	297	311	322	326	194
45	251	254	268	280	284	206
55	198	201	212	222	226	189
65	137	139	147	154	156	145
75	72	74	77	81	82	82
85	16	17	18	18	19	21
90	0	0	0	0	0	
95	37	332	37	27	24	205
105	90	471	774	965	1037	728
115	146	499	819	984	1051	719
125	196	491	811	996	1049	652
135	230	472	746	916	970	529
145	252	433	656	796	835	382
155	264	377	542	649	676	237
165	271	319	407	471	489	114
175	271	276	290	303	308	29
180	271	271	271	271	271	

ZONAL LUMEN SUMMARY

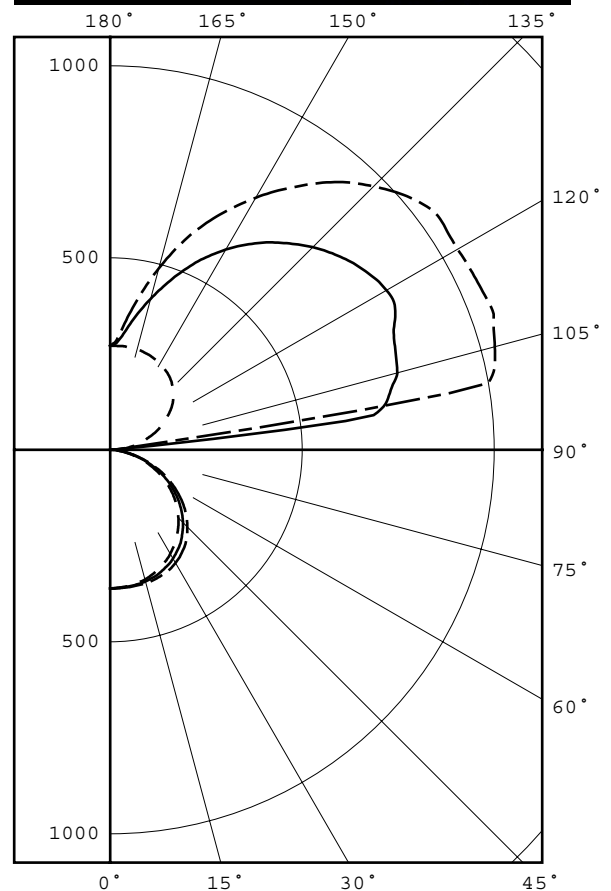
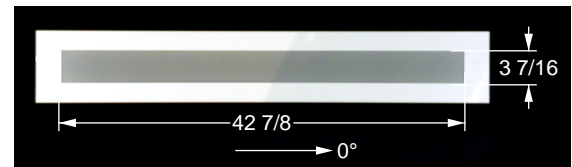
ZONE	LUMENS	%FIXT
0- 30	291	6.2
0- 40	485	10.3
0- 60	880	18.6
0- 90	1127	23.9
90-120	1652	35.0
90-130	2304	48.8
90-150	3215	68.1
90-180	3595	76.1
0-180	4722	100.0

EFFICACY (277V) = 123.9 lm/W

EFFICACY (120V) = 126.6 lm/W **

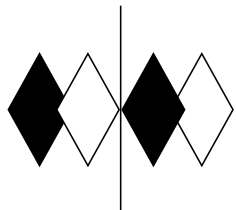
** THE EFFICACY AT 120 VOLTS IS BASED ON THE LUMENS FROM THIS REPORT AND THE WATTAGE MEASURED AT 120 VOLTS FROM ITL REPORT NUMBER ITL85120-THD.

CIE TYPE - SEMI-INDIRECT



LEGEND:
0-deg -----
45-deg =====
90-deg -----

Checked M KLOPF
Approved R BEATTIE
Lighting Engineer



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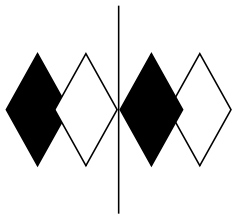
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PLANE : 0-DEG 90-DEG
LUMINOUS LENGTH : 42.875 3.437

LUMINANCE DATA IN CANDELA/SQ M			
ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	45-DEG	90-DEG
45	3733.	3986.	4224.
55	3630.	3887.	4144.
65	3409.	3658.	3882.
75	2926.	3129.	3332.
85	1931.	2172.	2293.



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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	361	361	361	361	361
5.0	359	360	360	361	361
10.0	356	356	358	360	360
15.0	350	349	355	359	359
20.0	340	340	349	354	356
25.0	328	328	339	347	350
30.0	313	314	327	337	340
35.0	295	297	311	322	326
40.0	274	277	291	303	308
45.0	251	254	268	280	284
50.0	225	229	241	252	257
55.0	198	201	212	222	226
60.0	168	171	180	189	192
65.0	137	139	147	154	156
70.0	104	106	112	117	118
75.0	72	74	77	81	82
80.0	42	43	45	47	48
85.0	16	17	18	18	19
90.0	0	0	0	0	0
95.0	37	332	37	27	24
100.0	63	403	732	932	999
105.0	90	471	774	965	1037
110.0	119	498	789	986	1060
115.0	146	499	819	984	1051
120.0	172	495	831	989	1045
125.0	196	491	811	996	1049
130.0	215	484	782	962	1021
135.0	230	472	746	916	970
140.0	243	455	703	860	910
145.0	252	433	656	796	835
150.0	259	407	602	726	758
155.0	264	377	542	649	676
160.0	268	348	474	563	588
165.0	271	319	407	471	489
170.0	272	293	344	380	392
175.0	271	276	290	303	308
180.0	271	271	271	271	271



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	9
5- 10	26
10- 15	42
15- 20	58
20- 25	72
25- 30	84
30- 35	94
35- 40	100
40- 45	103
45- 50	103
50- 55	98
55- 60	91
60- 65	79
65- 70	65
70- 75	49
75- 80	33
80- 85	17
85- 90	4
90- 95	17
95-100	188
100-105	360
105-110	369
110-115	364
115-120	354
120-125	338
125-130	314
130-135	282
135-140	247
140-145	210
145-150	172
150-155	136
155-160	101
160-165	70
165-170	44
170-175	23
175-180	7

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	34
0- 20	134
0- 30	291
0- 40	485
0- 50	691
0- 60	880
0- 70	1024
0- 80	1106
0- 90	1127
0-100	1332
0-110	2060
0-120	2779
0-130	3431
0-140	3960
0-150	4342
0-160	4579
0-170	4693
0-180	4722



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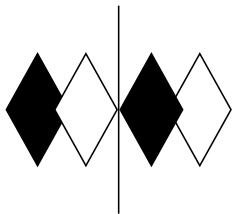
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32	24
1	92	88	84	80	81	78	75	72	60	58	56	43	42	41	28	27	27	20
2	83	76	70	65	74	68	63	59	52	49	46	38	36	34	25	23	22	16
3	76	67	60	54	67	60	54	49	46	42	39	33	31	29	22	20	19	14
4	69	59	51	46	61	53	46	41	41	36	33	30	27	24	19	18	16	12
5	63	52	44	39	56	47	40	35	36	31	28	26	23	21	17	15	14	10
6	58	47	39	33	52	42	35	30	32	28	24	24	20	18	16	14	12	9
7	54	42	34	29	48	38	31	26	29	24	21	21	18	16	14	12	11	8
8	50	38	30	25	44	34	27	23	26	22	18	19	16	14	13	11	9	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	12	12	10	8	6
10	43	31	24	20	38	28	22	18	22	18	14	16	13	11	11	9	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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ADDRESS: 30500 WHIPPLE ROAD
UNION CITY, CA 94587

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