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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

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

REPORT NUMBER: ITL85122

ISSUE DATE: 08/04/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: S16-LED-ID-DCO-4ft-3E-V-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, FABRICATED WHITE PAINTED METAL CENTER CIRCUIT BOARD MOUNT/REFLECTOR, 3 WHITE CIRCUIT BOARDS EACH WITH 80 LEDS, TWO EXTRUDED FROSTED HOLOGRAPHIC TOP LENSES, TRANSLUCENT WHITE HOLOGRAPHIC BOTTOM LENS. TOP LENSES FROSTED BOTH SIDES.

LAMPS: TWO HUNDRED FORTY WHITE LIGHT EMITTING DIODES (LEDs), 80 VERTICAL BASE-UP POSITION, 160 AIMED 5-DEGREES ABOVE THE HORIZON.

INPUT ELECTRICAL: 277.0 VOLTS, 59.2 WATTS, 0.228 AMPS

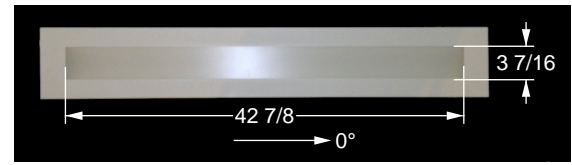
MOUNTING: SUSPENDED

LED DRIVER: OSRAM OT50W/PRG1400C/UNV/DIM/L, CLIENT STATES DRIVER PROGRAMMED FOR 700mA OUTPUT (160 TILTED LEDS). OSRAM OT30W/PRG1050C/UNV/DIM/L, CLIENT STATES DRIVER PROGRAMMED FOR 700mA OUTPUT (80 BASE-UP LEDS). DRIVERS HAVE MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST.

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

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	839	839	839	839	839	
5	835	834	834	835	834	79
15	800	795	798	798	794	224
25	728	720	723	722	719	332
35	629	623	624	620	618	389
45	515	510	510	505	503	393
55	394	389	387	383	383	346
65	266	263	261	257	257	258
75	138	137	135	134	133	144
85	30	31	31	31	31	36
90	0	0	0	0	0	
95	46	271	139	80	76	236
105	202	408	779	1000	1075	740
115	351	528	833	1021	1091	770
125	479	630	884	1045	1097	749
135	583	709	912	1046	1090	677
145	667	761	920	1023	1056	559
155	728	788	899	976	999	408
165	768	793	850	893	907	240
175	786	789	797	807	809	77
180	789	789	789	789	789	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	636	9.6
0- 40	1026	15.4
0- 60	1764	26.5
0- 90	2202	33.1
90-120	1745	26.2
90-130	2495	37.5
90-150	3731	56.0
90-180	4455	66.9
0-180	6657	100.0

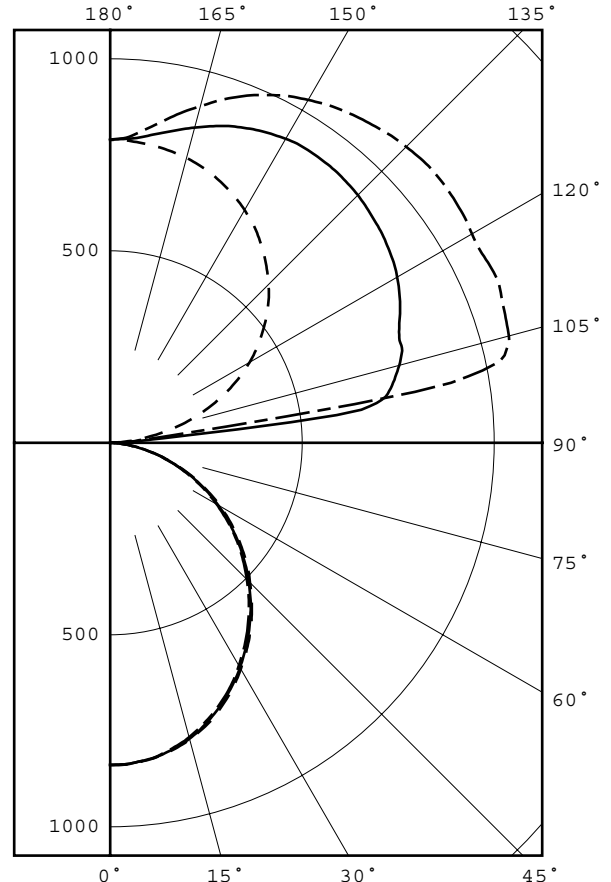
EFFICACY (277V) = 112.4 lm/W

EFFICACY (120V) = 117.2 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 ITL85122-THD.

CIE TYPE - SEMI-INDIRECT

THIS REPORT IS BASED ON PUBLISHED INDUSTRY PROCEDURES. FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE.

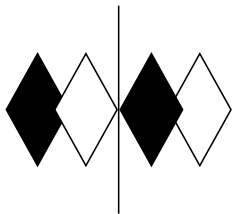


LEGEND:

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

Checked M KLOPF

Approved R BEATTIE
Lighting Engineer



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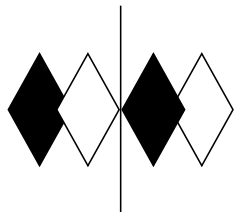
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PLANE : 0-DEG 90-DEG
LUMINOUS LENGTH : 42.875 3.437

LUMINANCE DATA IN CANDELA/SQ M			
ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	45-DEG	90-DEG
45	7660.	7585.	7481.
55	7224.	7096.	7023.
65	6619.	6495.	6395.
75	5607.	5486.	5404.
85	3620.	3741.	3741.



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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	839	839	839	839	839
5.0	835	834	834	835	834
10.0	822	819	821	820	819
15.0	800	795	798	798	794
20.0	769	760	764	764	760
25.0	728	720	723	722	719
30.0	680	673	676	673	670
35.0	629	623	624	620	618
40.0	574	568	569	565	562
45.0	515	510	510	505	503
50.0	456	450	449	444	444
55.0	394	389	387	383	383
60.0	331	327	325	321	320
65.0	266	263	261	257	257
70.0	201	199	197	194	194
75.0	138	137	135	134	133
80.0	79	79	78	78	78
85.0	30	31	31	31	31
90.0	0	0	0	0	0
95.0	46	271	139	80	76
100.0	121	349	734	913	901
105.0	202	408	779	1000	1075
110.0	278	472	801	1018	1086
115.0	351	528	833	1021	1091
120.0	419	582	863	1032	1088
125.0	479	630	884	1045	1097
130.0	534	673	899	1050	1099
135.0	583	709	912	1046	1090
140.0	627	738	919	1036	1075
145.0	667	761	920	1023	1056
150.0	700	777	914	1003	1031
155.0	728	788	899	976	999
160.0	751	793	878	938	958
165.0	768	793	850	893	907
170.0	779	791	821	846	856
175.0	786	789	797	807	809
180.0	789	789	789	789	789



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	20
5- 10	59
10- 15	96
15- 20	129
20- 25	156
25- 30	177
30- 35	191
35- 40	199
40- 45	199
45- 50	193
50- 55	182
55- 60	164
60- 65	142
65- 70	116
70- 75	87
75- 80	57
80- 85	29
85- 90	7
90- 95	31
95-100	205
100-105	360
105-110	379
110-115	385
115-120	385
120-125	380
125-130	369
130-135	351
135-140	326
140-145	297
145-150	263
150-155	224
155-160	183
160-165	141
165-170	99
170-175	58
175-180	19

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	79
0- 20	304
0- 30	636
0- 40	1026
0- 50	1418
0- 60	1764
0- 70	2022
0- 80	2166
0- 90	2202
0-100	2438
0-110	3178
0-120	3947
0-130	4697
0-140	5374
0-150	5933
0-160	6341
0-170	6580
0-180	6657



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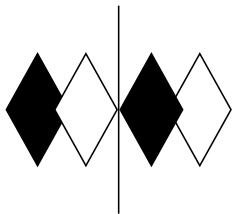
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	78	72	67	77	71	66	61	57	53	50	44	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	46	42	38	36	33	28	26	24	20
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	39	34	31	31	27	24	22	20	18	15
6	60	48	40	35	54	44	37	32	35	30	27	28	24	21	20	18	16	13
7	55	43	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	15	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	16	13	11	9
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

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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