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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: ITL87822

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ISSUE DATE: 07/19/16

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: S16-LED-ID-DCO-4FT-2E-V-8-35-40U60D

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, 2 WHITE CIRCUIT BOARDS EACH WITH 80 LEDS, TRANSLUCENT WHITE HOLOGRAPHIC BOTTOM LENS, 2-PIECE WHITE PAINTED FLAT METAL TOP REFLECTOR WITH 40 0.4375" X 3.500" OBLONG ADJUSTABLE UPLIGHT APERTURES, FROSTED HOLOGRAPHIC FLAT PLASTIC TOP OVERLAY. OVERLAY FROSTED SIDE UP. TOP REFLECTOR ADJUSTED TO POSITION "3" FOR THIS TEST.

LAMPS: ONE HUNDRED SIXTY WHITE LIGHT EMITTING DIODES (LEDs), AIMED 5-DEGREES ABOVE THE HORIZON.

INPUT ELECTRICAL: 277.0 VOLTS, 37.9 WATTS, 0.145 AMPS

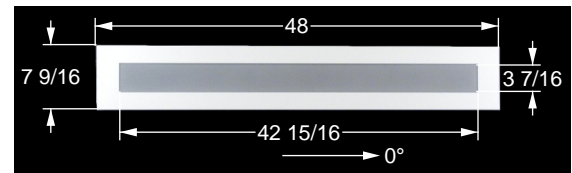
MOUNTING: SUSPENDED

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	763	763	763	763	763	
5	760	760	761	761	761	72
15	736	732	740	743	742	208
25	683	678	692	699	700	318
35	605	603	618	628	631	386
45	507	509	523	532	535	402
55	395	396	408	415	419	363
65	272	274	280	285	287	276
75	144	145	148	149	150	157
85	35	36	36	36	34	41
90	0	0	0	0	0	
95	19	20	22	23	22	26
105	71	84	104	123	130	110
115	136	164	212	252	268	205
125	199	241	317	376	400	275
135	251	298	388	457	483	290
145	282	321	404	468	491	247
155	297	320	378	424	440	173
165	301	310	336	358	367	95
175	302	303	306	309	311	30
180	302	302	302	302	302	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	599	16.3
0- 40	985	26.8
0- 60	1750	47.6
0- 90	2225	60.5
90-120	340	9.3
90-130	615	16.7
90-150	1152	31.4
90-180	1450	39.5
0-180	3675	100.0

EFFICACY (277V) = 97.0 lm/W

EFFICACY (120V) = 98.8 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 ITL87819-THD.

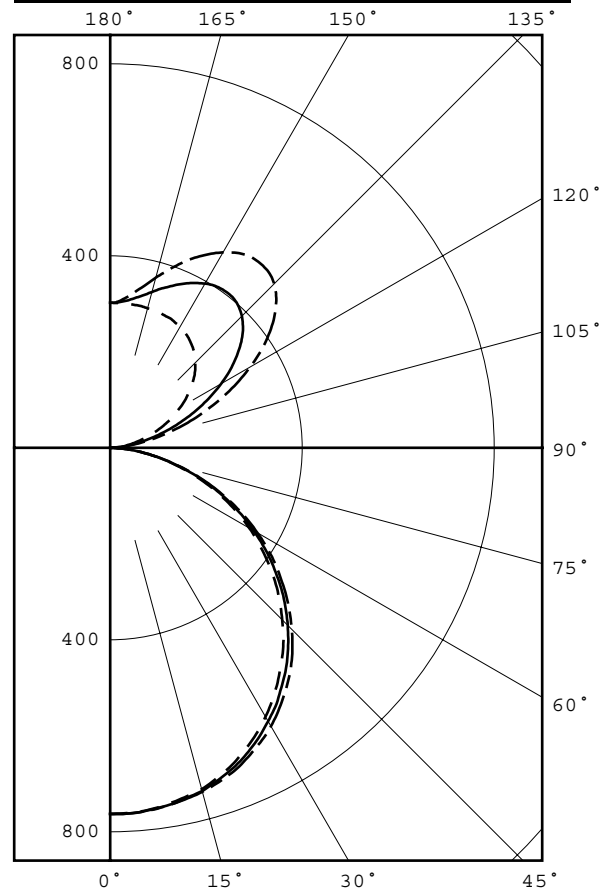
CIE TYPE - SEMI-DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.26 1.30

BEAM ANGLE (50%) : 112.2 X 115.8 DEGREES

FIELD ANGLE (10%) : 162.0 X 162.1 DEGREES

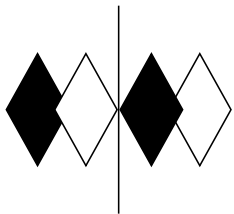


LEGEND:

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

Checked J. VILLANUEVA

Approved R. BEATTIE
Lighting Engineer



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PLANE : 0-DEG 90-DEG
LUMINOUS LENGTH : 42.938 3.437

LUMINANCE DATA IN CANDELA/SQ M			
ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	45-DEG	90-DEG
45	7530.	7767.	7946.
55	7232.	7470.	7671.
65	6759.	6958.	7132.
75	5843.	6005.	6086.
85	4217.	4338.	4097.



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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	763	763	763	763	763
5.0	760	760	761	761	761
10.0	750	749	753	753	753
15.0	736	732	740	743	742
20.0	713	708	719	725	725
25.0	683	678	692	699	700
30.0	647	644	658	667	670
35.0	605	603	618	628	631
40.0	559	559	574	584	587
45.0	507	509	523	532	535
50.0	453	454	468	476	479
55.0	395	396	408	415	419
60.0	335	337	345	352	354
65.0	272	274	280	285	287
70.0	208	209	214	217	218
75.0	144	145	148	149	150
80.0	87	86	88	88	88
85.0	35	36	36	36	34
90.0	0	0	0	0	0
95.0	19	20	22	23	22
100.0	43	49	59	68	72
105.0	71	84	104	123	130
110.0	103	123	156	186	197
115.0	136	164	212	252	268
120.0	169	204	267	317	337
125.0	199	241	317	376	400
130.0	228	273	359	425	450
135.0	251	298	388	457	483
140.0	269	314	403	471	495
145.0	282	321	404	468	491
150.0	291	323	395	451	470
155.0	297	320	378	424	440
160.0	300	315	357	391	404
165.0	301	310	336	358	367
170.0	302	306	318	329	334
175.0	302	303	306	309	311
180.0	302	302	302	302	302



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	18
5- 10	54
10- 15	88
15- 20	120
20- 25	148
25- 30	171
30- 35	188
35- 40	198
40- 45	203
45- 50	199
50- 55	190
55- 60	174
60- 65	152
65- 70	125
70- 75	94
75- 80	63
80- 85	33
85- 90	9
90- 95	4
95-100	21
100-105	43
105-110	67
110-115	91
115-120	114
120-125	132
125-130	143
130-135	147
135-140	143
140-145	132
145-150	115
150-155	96
155-160	76
160-165	57
165-170	39
170-175	22
175-180	7

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	72
0- 20	281
0- 30	599
0- 40	985
0- 50	1387
0- 60	1750
0- 70	2027
0- 80	2183
0- 90	2225
0-100	2251
0-110	2360
0-120	2565
0-130	2840
0-140	3130
0-150	3377
0-160	3549
0-170	3645
0-180	3675



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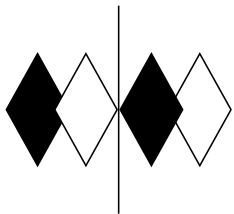
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	95	91	88	93	89	86	83	78	75	73	68	66	64	58	57	55	51
2	91	83	77	71	85	78	72	68	68	64	60	59	56	53	51	48	46	42
3	83	73	65	59	77	68	62	56	60	55	50	52	48	45	45	42	39	35
4	76	64	56	50	70	60	53	47	53	47	43	46	42	38	40	36	33	30
5	69	57	49	43	65	54	46	41	47	41	37	41	37	33	36	32	29	26
6	64	51	43	37	59	48	41	35	43	37	32	37	32	29	32	28	25	23
7	59	46	38	32	55	44	36	31	39	33	28	34	29	25	29	26	22	20
8	55	42	34	29	51	40	32	27	35	29	25	31	26	22	27	23	20	18
9	51	38	31	25	48	36	29	24	32	26	22	28	24	20	25	21	18	16
10	48	35	28	23	45	33	27	22	30	24	20	26	22	18	23	19	16	14

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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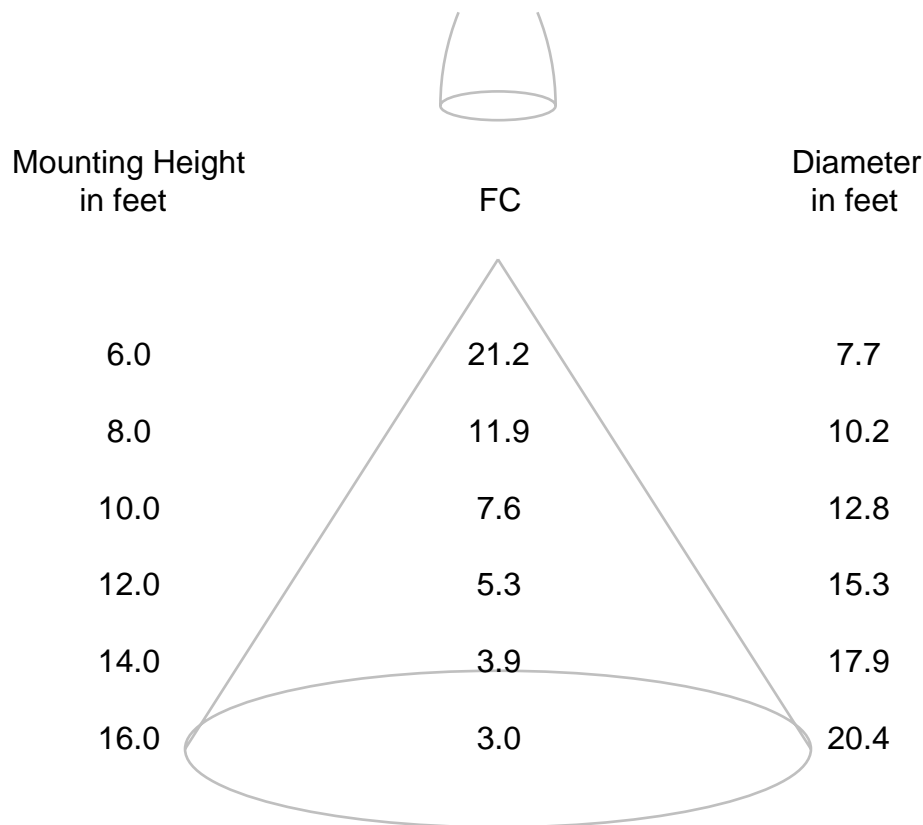
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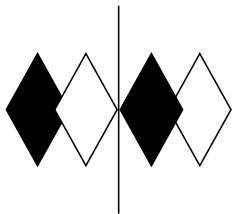
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CONE OF LIGHT DIAGRAM

(diameter shown is where fc value is half the fc at nadir)



Note: The candela values used to generate this diagram were obtained by averaging the photometric data into a single plane.



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