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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: ITL87821

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ISSUE DATE: 07/19/16

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: S16-LED-ID-DCO-4FT-2E-V-8-35-30U70D

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 0.375" X 3.500" OBLONG ADJUSTABLE UPLIGHT APERTURES, FROSTED HOLOGRAPHIC FLAT PLASTIC TOP OVERLAY. OVERLAY FROSTED SIDE UP. TOP REFLECTOR ADJUSTED TO POSITION "2" 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

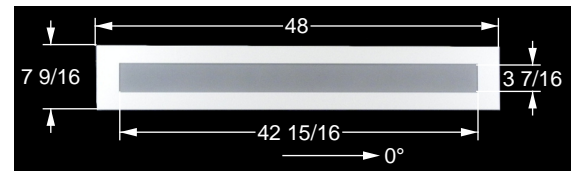
MOUNTING: SUSPENDED

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

	0.0	22.5	45.0	67.5	90.0	FLUX
0	849	849	849	849	849	80
5	845	845	845	846	846	231
15	817	812	820	824	823	352
25	756	750	764	772	773	425
35	669	666	682	691	693	441
45	559	559	573	582	584	397
55	435	435	446	453	456	301
65	298	299	305	309	312	170
75	158	158	161	162	164	45
85	39	38	38	38	38	19
90	0	0	0	0	0	81
95	14	15	16	17	17	150
105	54	63	78	89	94	201
115	103	122	157	181	190	211
125	150	180	234	271	286	180
135	188	221	284	329	345	127
145	212	239	296	338	352	71
155	223	239	277	308	319	22
165	226	232	249	263	269	
175	227	228	230	232	232	
180	227	227	227	227	227	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	663	18.9
0- 40	1088	31.0
0- 60	1926	55.0
0- 90	2443	69.7
90-120	250	7.1
90-130	451	12.9
90-150	843	24.0
90-180	1063	30.3
0-180	3505	100.0

EFFICACY (277V) = 92.5 lm/W

EFFICACY (120V) = 94.2 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 ITL87819-THD.

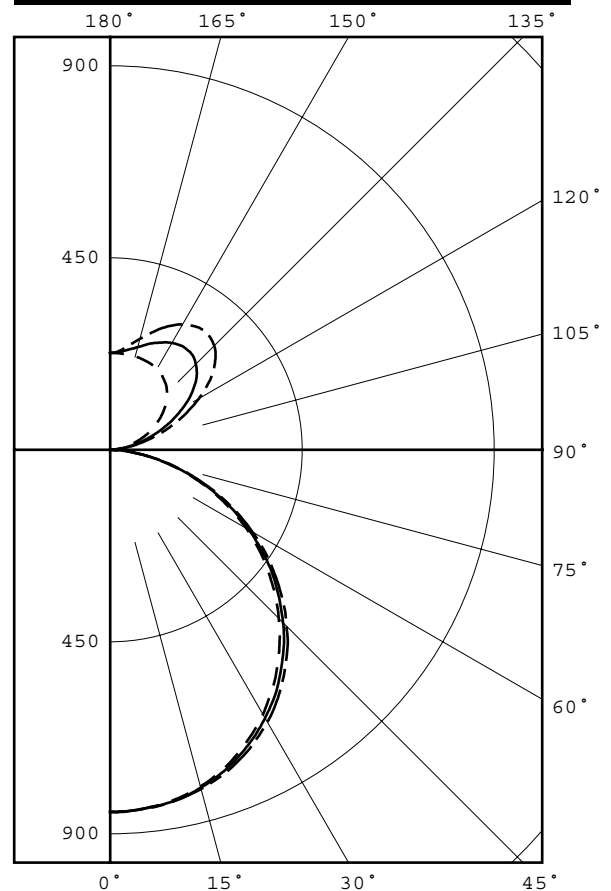
CIE TYPE - SEMI-DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.25 1.29

BEAM ANGLE (50%) : 111.6 X 114.5 DEGREES

FIELD ANGLE (10%) : 161.7 X 161.8 DEGREES

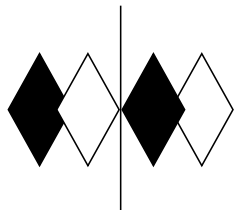


LEGEND:

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

Checked J. VILLANUEVA

Approved R. BEATTIE
Lighting Engineer



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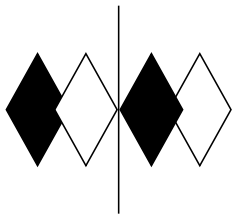
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PLANE : 0-DEG 90-DEG
LUMINOUS LENGTH : 42.938 3.437

LUMINANCE DATA IN CANDELA/SQ M				
ANGLE	AVERAGE	AVERAGE	AVERAGE	
IN DEG	0-DEG	45-DEG	90-DEG	
45	8302.	8510.	8673.	
55	7964.	8166.	8349.	
65	7405.	7579.	7753.	
75	6411.	6533.	6654.	
85	4699.	4579.	4579.	



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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	849	849	849	849	849
5.0	845	845	845	846	846
10.0	835	833	837	838	838
15.0	817	812	820	824	823
20.0	791	785	796	802	802
25.0	756	750	764	772	773
30.0	716	711	726	735	737
35.0	669	666	682	691	693
40.0	616	614	630	639	642
45.0	559	559	573	582	584
50.0	498	499	511	520	522
55.0	435	435	446	453	456
60.0	368	368	376	383	385
65.0	298	299	305	309	312
70.0	227	228	232	235	237
75.0	158	158	161	162	164
80.0	95	94	95	95	96
85.0	39	38	38	38	38
90.0	0	0	0	0	0
95.0	14	15	16	17	17
100.0	32	37	44	50	52
105.0	54	63	78	89	94
110.0	78	92	116	134	142
115.0	103	122	157	181	190
120.0	127	152	197	228	240
125.0	150	180	234	271	286
130.0	171	203	264	306	321
135.0	188	221	284	329	345
140.0	202	233	295	339	355
145.0	212	239	296	338	352
150.0	219	240	289	327	339
155.0	223	239	277	308	319
160.0	225	236	264	286	294
165.0	226	232	249	263	269
170.0	227	230	238	244	247
175.0	227	228	230	232	232
180.0	227	227	227	227	227



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	20
5- 10	60
10- 15	98
15- 20	133
20- 25	163
25- 30	188
30- 35	207
35- 40	218
40- 45	222
45- 50	219
50- 55	208
55- 60	190
60- 65	165
65- 70	136
70- 75	102
75- 80	68
80- 85	36
85- 90	9
90- 95	3
95-100	16
100-105	32
105-110	49
110-115	67
115-120	83
120-125	96
125-130	105
130-135	107
135-140	104
140-145	96
145-150	84
150-155	71
155-160	56
160-165	42
165-170	29
170-175	17
175-180	5

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	80
0- 20	312
0- 30	663
0- 40	1088
0- 50	1529
0- 60	1926
0- 70	2227
0- 80	2398
0- 90	2443
0-100	2462
0-110	2542
0-120	2693
0-130	2893
0-140	3105
0-150	3285
0-160	3412
0-170	3483
0-180	3505



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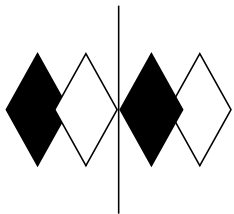
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	102	97	93	90	96	92	89	85	83	80	77	74	71	70	65	64	62	58
2	93	85	78	73	87	80	75	70	72	68	64	64	61	58	57	55	52	48
3	84	74	67	61	79	71	64	58	63	58	53	57	52	49	50	47	44	41
4	77	66	57	51	73	62	55	49	56	50	45	50	45	41	45	41	38	35
5	71	59	50	44	67	56	48	42	50	44	39	45	40	36	40	36	33	30
6	65	53	44	38	61	50	42	37	45	39	34	41	35	31	37	32	29	26
7	60	48	39	33	57	45	38	32	41	35	30	37	32	28	33	29	26	23
8	56	43	35	30	53	41	34	29	37	31	27	34	29	25	31	26	23	21
9	52	39	32	26	49	38	30	26	34	28	24	31	26	22	28	24	21	19
10	49	36	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17

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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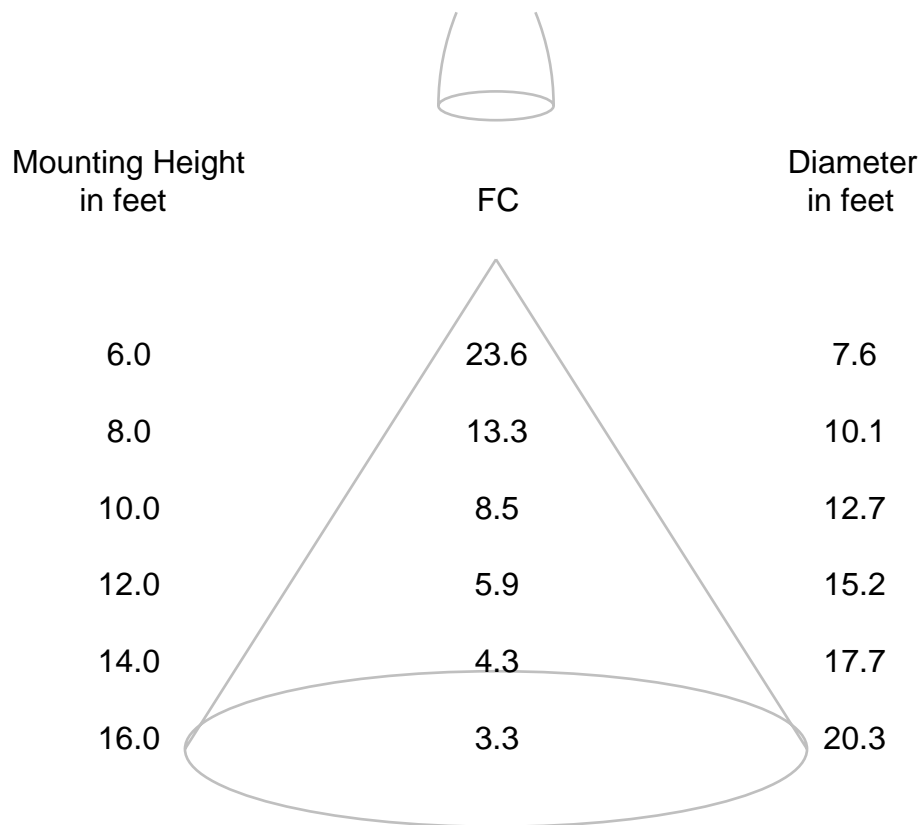
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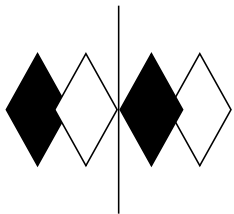
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CONE OF LIGHT DIAGRAM

(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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