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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: ITL85132

PAGE: 1 OF 6

ISSUE DATE: 08/11/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: HP-2-ID-4ft-V-V-8-35

LUMINAIRE: EXTRUDED WHITE PAINTED METAL HOUSING WITH CAST WHITE PAINTED METAL END CAPS AND 2 DISTINCT OPTICAL COMPARTMENTS, TOP OPTICAL COMPARTMENT CONSISTS OF: FABRICATED SEMI-SPECULAR METAL CIRCUIT BOARD MOUNTING STRIPS, 2 WHITE CIRCUIT BOARDS EACH WITH 40 LEDS, 1 WHITE CIRCUIT BOARD WITH 80 LEDS, EXTRUDED FROSTED PLASTIC DIFFUSER. BOTTOM COMPARTMENT CONSISTS OF FORMED WHITE PAINTED METAL REFLECTOR/CIRCUIT BOARD MOUNT, 2 WHITE CIRCUIT BOARDS EACH WITH 80 LEDS, EXTRUDED FROSTED PLASTIC DIFFUSER. DIFFUSERS FROSTED BOTH SIDES.

LAMPS: THREE HUNDRED TWENTY WHITE LIGHT EMITTING DIODES (LEDS), 160 VERTICAL BASE-UP POSITION, 160 VERTICAL BASE-DOWN POSITION.

INPUT ELECTRICAL: 277.0 VOLTS, 75.3 WATTS, 0.287 AMPS

MOUNTING: SUSPENDED

LED DRIVERS: TWO OSRAM OT50W/PRG1400C/UNV/DIM/L, DRIVERS HAVE MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST, CLIENT STATES BOTH DRIVERS PROGRAMMED FOR 700mA OUTPUT.

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	1314	1314	1314	1314	1314	
5	1306	1307	1305	1304	1304	124
15	1241	1233	1231	1225	1220	346
25	1114	1098	1089	1076	1064	501
35	942	925	910	887	877	568
45	749	734	718	693	683	552
55	553	542	526	506	499	470
65	368	360	349	337	332	346
75	203	198	192	187	184	204
85	60	59	58	57	55	64
90	0	0	0	0	0	
95	71	68	68	69	70	77
105	244	241	236	235	234	252
115	442	439	437	427	425	431
125	661	649	653	643	638	581
135	884	871	875	866	866	673
145	1099	1084	1088	1084	1077	679
155	1283	1268	1275	1269	1263	585
165	1415	1405	1408	1406	1403	396
175	1482	1482	1482	1482	1481	141
180	1492	1492	1492	1492	1492	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	970	13.9
0- 40	1538	22.0
0- 60	2560	36.6
0- 90	3175	45.4
90-120	760	10.9
90-130	1340	19.2
90-150	2692	38.5
90-180	3813	54.6
0-180	6988	100.0

EFFICACY (277V) = 92.8 lm/W

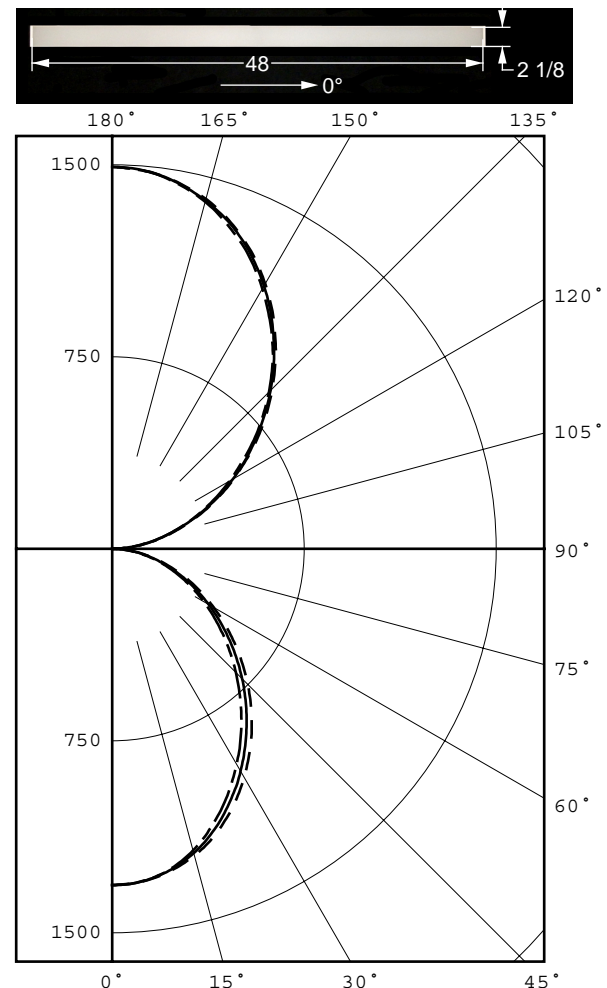
EFFICACY (120V) = 94.7 lm/W **

** THE EFFICACY AT 120 VOLTS IS BASED ON THE LUMENS FROM THIS REPORT AND THE WATTAGE MEASURED AT 120 VOLTS FROM ITL REPORT NUMBER ITL85132-THD.

CIE TYPE - GENERAL DIFFUSE

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.17 1.12

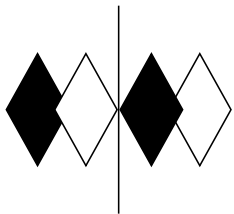


LEGEND:

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

Checked M KLOPF

Approved R BEATTIE
Lighting Engineer



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PAGE: 2 OF 6

PLANE : 0-DEG 90-DEG
LUMINOUS LENGTH : 48.000 2.125

LUMINANCE DATA IN CANDELA/SQ M				
ANGLE	AVERAGE	AVERAGE	AVERAGE	
IN DEG	0-DEG	45-DEG	90-DEG	
45	16096.	15430.	14678.	
55	14651.	13936.	13220.	
65	13232.	12549.	11938.	
75	11919.	11273.	10803.	
85	10461.	10113.	9590.	



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PAGE: 3 OF 6

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CANDELA DISTRIBUTION LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	1314	1314	1314	1314	1314
5.0	1306	1307	1305	1304	1304
10.0	1281	1279	1277	1276	1274
15.0	1241	1233	1231	1225	1220
20.0	1185	1172	1167	1156	1147
25.0	1114	1098	1089	1076	1064
30.0	1031	1016	1003	984	971
35.0	942	925	910	887	877
40.0	847	830	815	790	780
45.0	749	734	718	693	683
50.0	650	636	621	597	589
55.0	553	542	526	506	499
60.0	458	449	435	418	413
65.0	368	360	349	337	332
70.0	283	277	268	260	255
75.0	203	198	192	187	184
80.0	128	126	122	119	117
85.0	60	59	58	57	55
90.0	0	0	0	0	0
95.0	71	68	68	69	70
100.0	154	149	149	149	148
105.0	244	241	236	235	234
110.0	340	337	332	330	327
115.0	442	439	437	427	425
120.0	551	543	545	533	529
125.0	661	649	653	643	638
130.0	774	761	763	753	754
135.0	884	871	875	866	866
140.0	994	981	984	979	976
145.0	1099	1084	1088	1084	1077
150.0	1195	1180	1186	1179	1173
155.0	1283	1268	1275	1269	1263
160.0	1356	1343	1350	1344	1338
165.0	1415	1405	1408	1406	1403
170.0	1455	1452	1453	1451	1450
175.0	1482	1482	1482	1482	1481
180.0	1492	1492	1492	1492	1492



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PAGE: 4 OF 6

5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	31
5- 10	92
10- 15	149
15- 20	197
20- 25	236
25- 30	264
30- 35	281
35- 40	287
40- 45	283
45- 50	269
50- 55	248
55- 60	222
60- 65	190
65- 70	156
70- 75	120
75- 80	84
80- 85	49
85- 90	15
90- 95	18
95-100	59
100-105	103
105-110	149
110-115	194
115-120	237
120-125	275
125-130	306
130-135	330
135-140	343
140-145	345
145-150	334
150-155	310
155-160	274
160-165	227
165-170	170
170-175	105
175-180	36

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	124
0- 20	470
0- 30	970
0- 40	1538
0- 50	2090
0- 60	2560
0- 70	2906
0- 80	3111
0- 90	3175
0-100	3252
0-110	3504
0-120	3934
0-130	4515
0-140	5188
0-150	5866
0-160	6451
0-170	6847
0-180	6988



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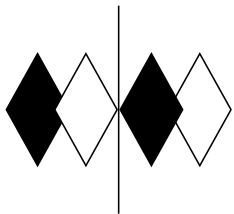
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	97	92	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	39	37	32
3	80	71	64	58	74	65	59	54	55	50	46	45	42	39	36	34	32	27
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	30	27	24
5	68	56	48	42	62	52	45	39	44	38	34	36	32	29	29	26	24	21
6	62	50	42	37	57	47	39	34	39	34	30	33	29	25	26	23	21	18
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	24	21	19	16
8	53	41	34	28	49	38	31	27	33	27	23	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	17	15	13
10	47	35	27	23	43	32	26	21	28	22	19	23	19	16	19	16	14	12

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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