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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: ITL85125

PAGE: 1 OF 6

ISSUE DATE: 08/06/15

PREPARED FOR: FINELITE, INC.

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

LUMINAIRE: EXTRUDED WHITE PAINTED METAL HOUSING WITH WHITE PAINTED FLAT

METAL END CAPS AND 2 DISTINCT OPTICAL COMPARTMENTS, TOP OPTICAL COMPARTMENT CONSISTS OF: EXTRUDED WHITE PAINTED METAL CIRCUIT BOARD MOUNT, 4 CIRCUIT BOARDS EACH WITH 40 LEDS, EXTRUDED FROSTED PLASTIC DIFFUSER. BOTTOM COMPARTMENT CONSISTS OF FORMED WHITE PAINTED METAL REFLECTOR/CIRCUIT BOARD MOUNT, 4 CIRCUIT BOARDS EACH WITH 40 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, 75.7 WATTS, 0.289 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	
0	1443	1443	1443	1443	1443	
5	1433	1434	1434	1433	1434	136
15	1368	1360	1365	1363	1356	384
25	1239	1225	1228	1224	1216	564
35	1062	1050	1049	1040	1034	654
45	859	850	847	838	832	652
55	647	640	637	628	624	568
65	435	430	429	424	422	424
75	233	234	233	234	232	248
85	65	67	68	69	70	76
90	0	0	0	0	0	
95	71	72	76	81	82	86
105	257	261	266	270	269	281
115	485	483	485	490	486	482
125	723	726	726	720	717	646
135	963	958	961	958	951	739
145	1189	1177	1185	1179	1172	738
155	1377	1367	1374	1368	1363	631
165	1517	1510	1514	1511	1510	426
175	1590	1590	1590	1589	1590	151
180	1600	1600	1600	1600	1600	

#### FLUX

#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	1084	13.7
0- 40	1739	22.0
0- 60	2959	37.5
0- 90	3706	47.0
90-120	849	10.8
90-130	1495	19.0
90-150	2972	37.7
90-180	4180	53.0
0-180	7886	100.0

EFFICACY (277V) = 104.2 lm/W

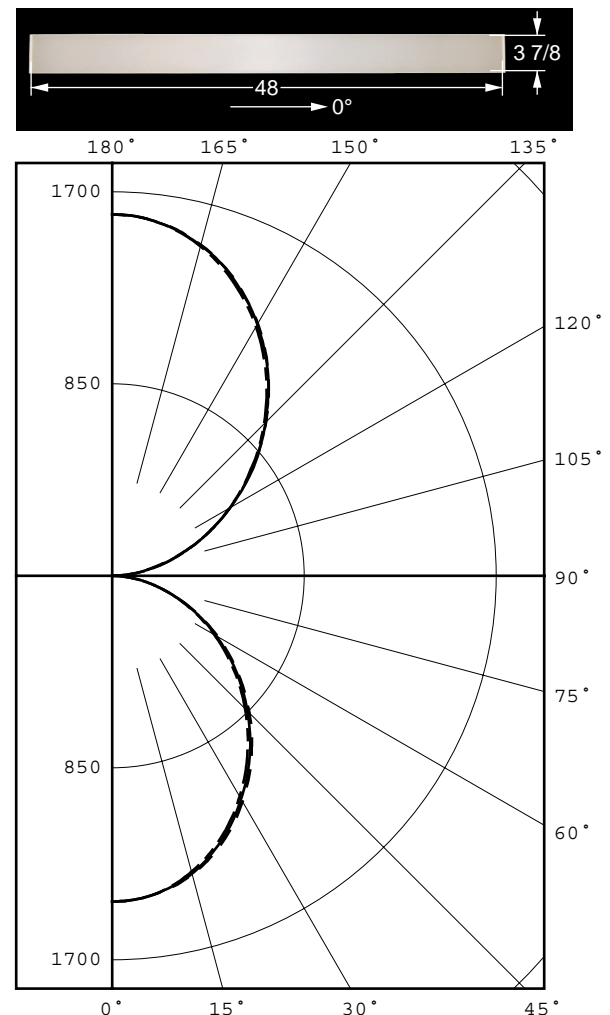
EFFICACY (120V) = 106.4 lm/W \*\*

\*\* THE EFFICACY AT 120 VOLTS IS BASED ON THE LUMENS FROM THIS REPORT AND THE WATTAGE MEASURED AT 120 VOLTS FROM ITL REPORT NUMBER ITL85125-THD.

CIE TYPE - GENERAL DIFFUSE

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.19 1.17



#### LEGEND:

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

Checked M KLOPF

Approved R BEATTIE  
Lighting Engineer



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PLANE : 0-DEG 90-DEG  
LUMINOUS LENGTH : 48.000 3.875

LUMINANCE DATA IN CANDELA/SQ M				
ANGLE	AVERAGE	AVERAGE	AVERAGE	
IN DEG	0-DEG	45-DEG	90-DEG	
45	10123.	9982.	9805.	
55	9400.	9255.	9066.	
65	8577.	8459.	8321.	
75	7502.	7502.	7470.	
85	6215.	6502.	6693.	



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# CANDELA DISTRIBUTION LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	1443	1443	1443	1443	1443
5.0	1433	1434	1434	1433	1434
10.0	1409	1406	1407	1407	1405
15.0	1368	1360	1365	1363	1356
20.0	1311	1299	1303	1300	1293
25.0	1239	1225	1228	1224	1216
30.0	1154	1140	1141	1136	1128
35.0	1062	1050	1049	1040	1034
40.0	962	952	951	940	934
45.0	859	850	847	838	832
50.0	753	745	742	733	728
55.0	647	640	637	628	624
60.0	541	534	532	525	522
65.0	435	430	429	424	422
70.0	331	329	329	326	324
75.0	233	234	233	234	232
80.0	144	145	147	148	148
85.0	65	67	68	69	70
90.0	0	0	0	0	0
95.0	71	72	76	81	82
100.0	160	162	167	172	171
105.0	257	261	266	270	269
110.0	369	369	372	376	375
115.0	485	483	485	490	486
120.0	602	604	603	602	600
125.0	723	726	726	720	717
130.0	843	844	846	840	835
135.0	963	958	961	958	951
140.0	1079	1070	1076	1072	1064
145.0	1189	1177	1185	1179	1172
150.0	1290	1277	1285	1279	1273
155.0	1377	1367	1374	1368	1363
160.0	1455	1447	1453	1447	1444
165.0	1517	1510	1514	1511	1510
170.0	1563	1559	1561	1559	1559
175.0	1590	1590	1590	1589	1590
180.0	1600	1600	1600	1600	1600



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	34
5- 10	102
10- 15	164
15- 20	220
20- 25	265
25- 30	299
30- 35	322
35- 40	333
40- 45	332
45- 50	320
50- 55	299
55- 60	269
60- 65	233
65- 70	191
70- 75	147
75- 80	101
80- 85	58
85- 90	18
90- 95	20
95-100	66
100-105	115
105-110	166
110-115	217
115-120	265
120-125	306
125-130	340
130-135	364
135-140	376
140-145	376
145-150	362
150-155	335
155-160	296
160-165	244
165-170	182
170-175	113
175-180	38

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	136
0- 20	520
0- 30	1084
0- 40	1739
0- 50	2390
0- 60	2959
0- 70	3382
0- 80	3630
0- 90	3706
0-100	3792
0-110	4073
0-120	4555
0-130	5201
0-140	5940
0-150	6678
0-160	7309
0-170	7736
0-180	7886



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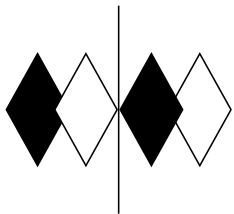
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# COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	97	93	89	85	89	85	82	79	71	69	67	59	57	56	47	46	45	39
2	88	81	75	70	81	75	69	65	63	59	55	52	49	46	41	39	38	33
3	81	71	64	58	74	66	59	54	55	50	47	46	42	39	37	34	32	28
4	74	63	55	49	67	58	51	46	49	44	40	41	37	34	33	30	28	24
5	68	56	48	42	62	52	45	39	44	38	34	36	32	29	30	27	24	21
6	62	50	42	36	57	47	39	34	40	34	30	33	29	25	27	24	21	18
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	24	21	19	16
8	53	41	33	28	49	38	31	27	33	27	23	27	23	20	22	19	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	46	34	27	22	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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