



**itl boulder**  
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: ITL85124

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ISSUE DATE: 08/05/15

PREPARED FOR: FINELITE, INC.

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

LUMINAIRE: EXTRUDED WHITE PAINTED METAL HOUSING WITH WHITE PAINTED FLAT METAL END CAPS, FORMED WHITE PAINTED METAL REFLECTOR/CIRCUIT BOARD MOUNT, 4 CIRCUIT BOARDS EACH WITH 40 LEDS, EXTRUDED FROSTED PLASTIC DIFFUSER. DIFFUSER FROSTED BOTH SIDES.

LAMPS: ONE HUNDRED SIXTY WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.

INPUT ELECTRICAL: 277.0 VOLTS, 37.9 WATTS, 0.144 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	1436	1436	1436	1436	1436	
5	1428	1428	1427	1427	1427	135
15	1363	1353	1358	1357	1350	382
25	1236	1221	1226	1219	1212	563
35	1060	1047	1048	1037	1030	653
45	859	849	848	836	831	652
55	647	639	637	628	623	568
65	434	432	431	425	424	425
75	236	236	237	235	236	250
85	67	68	69	70	69	77
90	0	0	0	0	0	

#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	1080	29.2
0- 40	1733	46.8
0- 60	2953	79.7
0- 90	3705	100.0
90-180	0	0.0
0-180	3705	100.0

EFFICACY (277V) = 97.8 lm/W

EFFICACY (120V) = 100.1 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 ITL85124-THD.

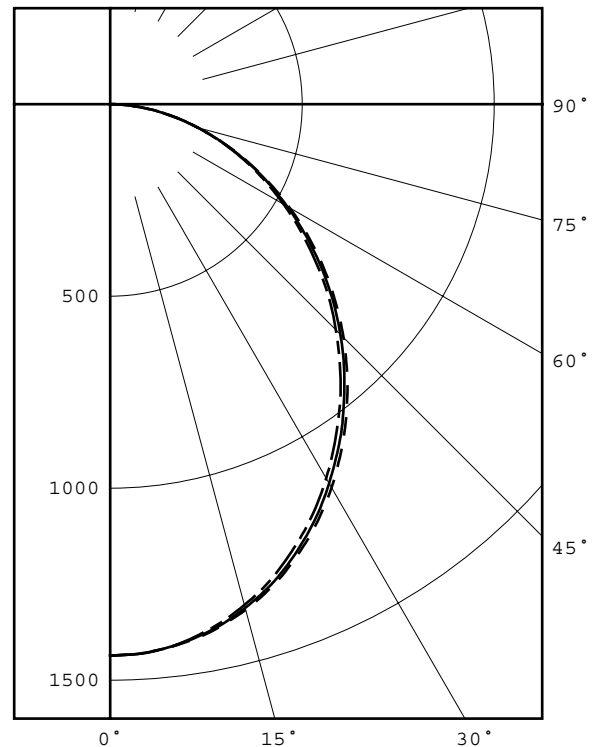
#### CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG  
SPACING CRITERIA : 1.20 1.17  
LUMINOUS LENGTH : 48.000 3.875

#### LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	10123.	9994.	9793.
55	9400.	9255.	9051.
65	8558.	8499.	8361.
75	7599.	7631.	7599.
85	6406.	6597.	6597.

#### FLUX



#### LEGEND:

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

Checked M KLOPF  
Approved R BEATTIE  
Lighting Engineer



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# CANDELA DISTRIBUTION LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	1436	1436	1436	1436	1436
2.5	1434	1434	1434	1433	1434
5.0	1428	1428	1427	1427	1427
7.5	1417	1416	1416	1416	1415
10.0	1404	1400	1401	1401	1397
12.5	1385	1379	1382	1382	1376
15.0	1363	1353	1358	1357	1350
17.5	1337	1325	1331	1328	1322
20.0	1307	1293	1300	1295	1288
22.5	1272	1258	1264	1257	1251
25.0	1236	1221	1226	1219	1212
27.5	1195	1181	1185	1176	1170
30.0	1153	1139	1140	1132	1125
32.5	1107	1093	1094	1085	1078
35.0	1060	1047	1048	1037	1030
37.5	1011	999	998	987	983
40.0	961	950	949	938	933
42.5	910	900	899	888	882
45.0	859	849	848	836	831
47.5	807	798	796	785	781
50.0	754	746	743	733	729
52.5	701	693	691	681	675
55.0	647	639	637	628	623
57.5	594	587	585	577	573
60.0	540	534	532	525	522
62.5	487	485	480	475	471
65.0	434	432	431	425	424
67.5	383	382	380	376	376
70.0	333	332	331	327	328
72.5	283	283	283	281	282
75.0	236	236	237	235	236
77.5	190	190	192	191	193
80.0	147	147	149	149	150
82.5	106	108	108	109	109
85.0	67	68	69	70	69
87.5	30	31	32	32	32
90.0	0	0	0	0	0



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	34
5- 10	101
10- 15	164
15- 20	219
20- 25	264
25- 30	299
30- 35	321
35- 40	332
40- 45	331
45- 50	320
50- 55	299
55- 60	269
60- 65	233
65- 70	192
70- 75	148
75- 80	103
80- 85	59
85- 90	18

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	135
0- 20	518
0- 30	1080
0- 40	1733
0- 50	2385
0- 60	2953
0- 70	3378
0- 80	3628
0- 90	3705



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	78	85	80	76	82	78	74	79	76	72	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

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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