

**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

PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: [itl@itlboulder.com](mailto:itl@itlboulder.com) • WEBSITE: [www.itlboulder.com](http://www.itlboulder.com)

REPORT NUMBER: ITL85137

PAGE: 1 OF 5

ISSUE DATE: 08/15/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: HP-2-WW-D-K-4ft-V-8-35

LUMINAIRE: FABRICATED WHITE PAINTED METAL HOUSING, EXTRUDED WHITE PAINTED METAL CIRCUIT BOARD MOUNT/REFLECTOR, 2 WHITE CIRCUIT BOARDS EACH WITH 40 LEDS, FORMED WHITE PAINTED METAL REAR REFLECTOR/VISOR, FROSTED HOLOGRAPHIC PLASTIC LENS. LENS FROSTED BOTH SIDES.

LAMPS: EIGHTY WHITE LIGHT EMITTING DIODES (LEDS), TILTED 15-DEGREES FROM VERTICAL BASE-UP POSITION.

INPUT ELECTRICAL: 277.0 VOLTS, 21.2 WATTS, 0.0834 AMPS

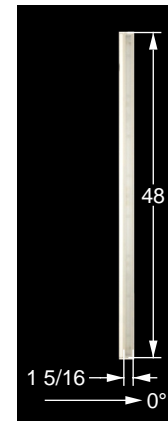
MOUNTING: SUSPENDED

LED DRIVER: OSRAM OT30W/PRG1050C/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	45.0	90.0	135.0	180.0	
0	485	485	485	485	485	
5	652	606	483	378	342	47
15	863	790	470	251	219	145
25	882	829	442	201	184	231
35	795	764	397	168	152	282
45	581	629	333	133	105	277
55	326	436	251	86	62	217
65	196	250	167	43	24	144
75	158	145	88	7	0	87
85	124	97	24	0	0	50
90	93	68	0	0	0	
95	60	34	0	0	0	18
105	2	0	0	0	0	1
115	0	0	0	0	0	0
125	0	0	0	0	0	0
135	0	0	0	0	0	0
145	0	0	0	0	0	0
155	0	0	0	0	0	0
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	

#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	423	28.2
0- 40	705	47.0
0- 60	1199	79.9
0- 90	1481	98.7
90-120	19	1.3
90-130	19	1.3
90-150	19	1.3
90-180	19	1.3
0-180	1500	100.0

EFFICACY (277V) = 70.8 lm/W

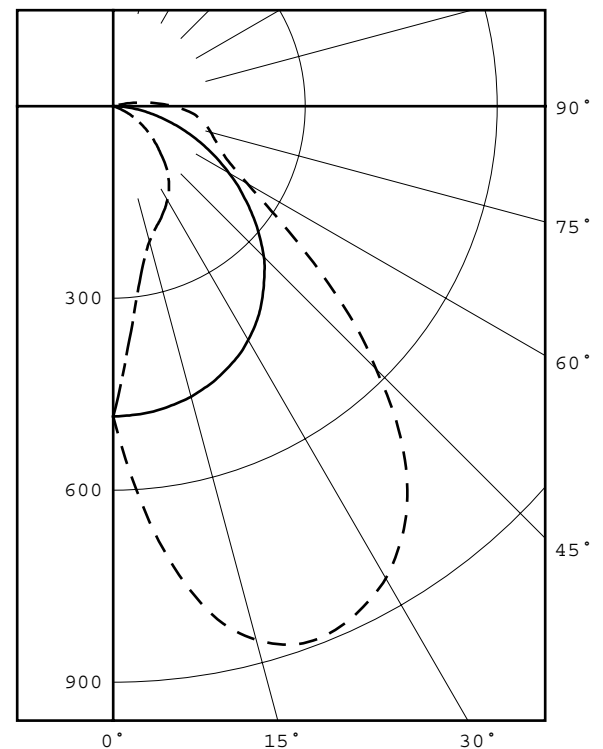
EFFICACY (120V) = 76.5 lm/W \*\*

\*\* THE EFFICACY AT 120 VOLTS IS BASED ON THE LUMENS FROM THIS REPORT AND THE WATTAGE MEASURED AT 120 VOLTS FROM ITL REPORT NUMBER ITL85137-THD.

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG 180-DEG

SPACING CRITERIA : 1.88 1.29 0.37



#### LEGEND:

0-deg -----  
90-deg =====  
180-deg -----

Checked M KLOPF  
Approved R BEATTIE  
Lighting Engineer



INDEPENDENT TESTING LABORATORIES, INC.  
4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: [itl@itlboulder.com](mailto:itl@itlboulder.com) • WEBSITE: [www.itlboulder.com](http://www.itlboulder.com)

REPORT NUMBER: ITL85137

PAGE: 2 OF 5

ISSUE DATE: 08/15/15

PREPARED FOR: FINELITE, INC.

# CANDELA DISTRIBUTION LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0.0	485	485	485	485	485	485	485	485	485
5.0	652	640	606	548	483	423	378	351	342
10.0	788	774	715	608	478	367	300	268	259
15.0	863	853	790	654	470	320	251	225	219
20.0	891	883	825	684	458	282	221	203	199
25.0	882	877	829	695	442	251	201	188	184
30.0	852	847	807	687	422	225	184	173	169
35.0	795	794	764	659	397	203	168	157	152
40.0	706	714	705	616	366	182	151	138	131
45.0	581	606	629	559	333	161	133	114	105
50.0	450	481	539	493	293	141	111	89	83
55.0	326	358	436	420	251	120	86	68	62
60.0	242	262	336	346	209	98	64	47	42
65.0	196	204	250	276	167	75	43	28	24
70.0	174	172	186	209	127	52	24	11	7
75.0	158	152	145	151	88	30	7	0	0
80.0	143	136	119	103	54	10	0	0	0
85.0	124	117	97	67	24	0	0	0	0
90.0	93	87	68	38	0	0	0	0	0
95.0	60	54	34	6	0	0	0	0	0
100.0	29	23	6	0	0	0	0	0	0
105.0	2	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	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](mailto:itl@itlboulder.com) • WEBSITE: [www.itlboulder.com](http://www.itlboulder.com)

REPORT NUMBER: ITL85137  
ISSUE DATE: 08/15/15  
PREPARED FOR: FINELITE, INC.

PAGE: 3 OF 5

5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	12
5- 10	36
10- 15	60
15- 20	85
20- 25	106
25- 30	125
30- 35	138
35- 40	144
40- 45	143
45- 50	134
50- 55	118
55- 60	99
60- 65	80
65- 70	64
70- 75	49
75- 80	38
80- 85	29
85- 90	21
90- 95	12
95-100	6
100-105	1
105-110	0
110-115	0
115-120	0
120-125	0
125-130	0
130-135	0
135-140	0
140-145	0
145-150	0
150-155	0
155-160	0
160-165	0
165-170	0
170-175	0
175-180	0

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	47
0- 20	192
0- 30	423
0- 40	705
0- 50	982
0- 60	1199
0- 70	1343
0- 80	1431
0- 90	1481
0-100	1498
0-110	1500
0-120	1500
0-130	1500
0-140	1500
0-150	1500
0-160	1500
0-170	1500
0-180	1500



REPORT NUMBER: ITL85137

PAGE: 4 OF 5

ISSUE DATE: 08/15/15

PREPARED FOR: FINELITE, INC.

# 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	110	110	110	105	105	105	101	101	101	99
1	108	103	99	95	105	101	97	94	97	93	90	92	90	87	89	87	85	82
2	99	91	84	78	96	89	82	77	85	80	75	81	77	73	78	75	71	69
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	70	65	61	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	62	57	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	41	37	47	41	36	34
8	61	48	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	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.

NOTE: THE ZONAL CAVITY CALCULATION TECHNIQUE IS ACCURATE WHEN LUMINAIRES WITH SYMMETRIC CANDELA DISTRIBUTIONS ARE EMPLOYED AND WHEN THE LUMINAIRES ARE LOCATED SYMMETRICALLY THROUGHOUT THE ROOM. THIS UNIT HAS SPECIAL CHARACTERISTICS AND THEREFORE THESE COEFFICIENTS SHOULD BE USED WITH CAUTION.



**itl boulder**  
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955



INDEPENDENT TESTING LABORATORIES, INC.  
4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: [itl@itlboulder.com](mailto:itl@itlboulder.com) • WEBSITE: [www.itlboulder.com](http://www.itlboulder.com)

REPORT NUMBER: ITL85137  
ISSUE DATE: 08/15/15  
PREPARED FOR: FINELITE, INC.

PAGE: 5 OF 5

ADDRESS: 30500 WHIPPLE ROAD  
UNION CITY, CA 94587

THIS ITL REPORT WITH THE USE OF THE NVLAP LOGO SHALL NOT BE USED BY THE CLIENT TO CLAIM PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NVLAP, NIST, OR ANY AGENCY OF THE FEDERAL GOVERNMENT.