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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

NVLAP
NVLAP LAB CODE: 200925-0

INDEPENDENT TESTING LABORATORIES, INC.
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REPORT NUMBER: ITL85131

PAGE: 1 OF 5

ISSUE DATE: 08/11/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: HP-4-WW-D-FO-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, 1 WHITE CIRCUIT BOARD WITH 80 LEDS, FORMED PREMIUM SEMI-SPECULAR METAL FORWARD REFLECTOR, FROSTED HOLOGRAPHIC PLASTIC LENS. LENS FROSTED BOTH SIDES.

LAMPS: EIGHTY WHITE LIGHT EMITTING DIODES (LEDS),
TILTED 20-DEGREES FROM VERTICAL BASE-UP POSITION.

INPUT ELECTRICAL: 277.0 VOLTS, 21.3 WATTS, 0.0837 AMPS

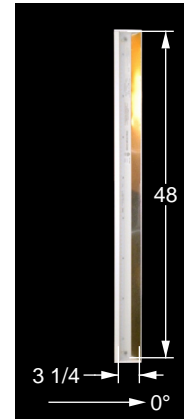
MOUNTING: SUSPENDED

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	697	697	697	697	697	
5	770	745	696	639	613	66
15	894	821	664	500	435	187
25	991	867	601	363	280	284
35	1020	873	514	248	172	348
45	919	813	411	156	98	362
55	737	653	302	86	46	322
65	557	464	197	34	9	246
75	307	290	105	3	2	146
85	65	67	31	1	1	40
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	536	26.8
0- 40	884	44.2
0- 60	1568	78.4
0- 90	2000	100.0
90-180	0	0.0
0-180	2000	100.0

EFFICACY (277V) = 93.9 lm/W

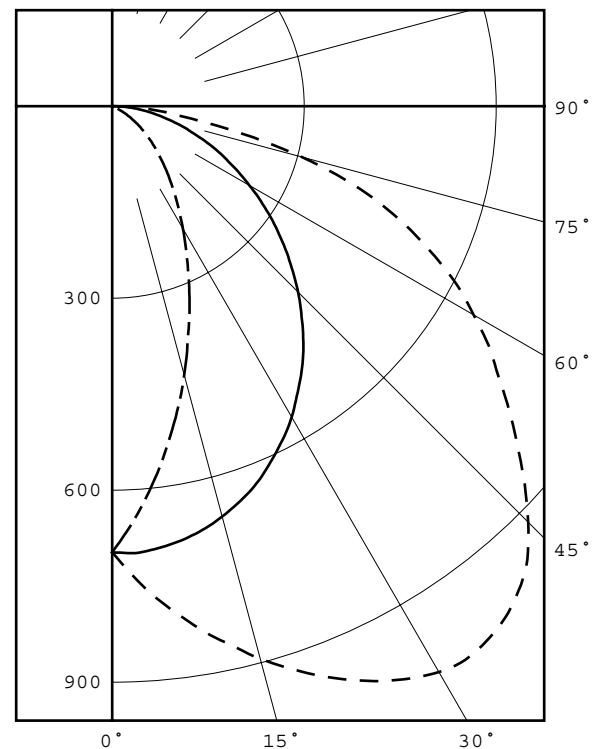
EFFICACY (120V) = 101.5 lm/W **

** THE EFFICACY AT 120 VOLTS IS BASED ON THE LUMENS FROM THIS REPORT AND THE WATTAGE MEASURED AT 120 VOLTS FROM ITL REPORT NUMBER ITL85131-THD.

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG 180-DEG
SPACING CRITERIA : 1.93 1.20 0.61
LUMINOUS LENGTH : 3.250 48.000

LUMINANCE DATA IN CANDELA/SQ M				
ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 90-DEG	AVERAGE 180-DEG	
45	12913.	5775.	1377.	
55	12767.	5231.	797.	
65	13095.	4632.	212.	
75	11786.	4031.	77.	
85	7410.	3534.	114.	



LEGEND:
0-deg -----
90-deg =====
180-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	112.5	135.0	157.5	180.0
0.0	697	697	697	697	697	697	697	697	697
2.5	734	731	721	706	699	677	672	664	656
5.0	770	764	745	719	696	659	639	624	613
7.5	802	794	768	729	691	639	606	581	569
10.0	834	822	787	736	684	617	571	539	523
12.5	863	850	805	741	675	594	536	496	479
15.0	894	877	821	744	664	570	500	454	435
17.5	921	901	835	743	651	545	465	413	391
20.0	947	924	848	741	637	518	430	373	352
22.5	970	943	859	736	620	491	397	336	315
25.0	991	960	867	729	601	463	363	301	280
27.5	1008	974	873	721	582	436	331	269	249
30.0	1021	984	876	711	561	409	301	240	221
32.5	1026	990	876	699	537	381	274	213	195
35.0	1020	989	873	686	514	355	248	189	172
37.5	1008	977	867	671	490	328	223	167	151
40.0	988	958	857	654	464	302	198	146	132
42.5	960	933	839	635	437	278	177	128	114
45.0	919	898	813	614	411	254	156	111	98
47.5	874	856	783	591	383	230	137	95	84
50.0	827	808	747	567	356	208	119	80	70
52.5	782	760	703	541	329	186	102	67	58
55.0	737	713	653	511	302	165	86	54	46
57.5	698	671	603	482	275	144	72	43	35
60.0	652	626	555	449	248	125	59	32	26
62.5	609	581	509	412	222	107	46	23	17
65.0	557	534	464	372	197	89	34	14	9
67.5	504	486	421	331	174	72	23	7	3
70.0	447	433	379	289	149	57	13	3	3
72.5	382	376	336	251	126	42	5	3	2
75.0	307	311	290	213	105	28	3	2	2
77.5	226	238	241	182	84	16	3	2	2
80.0	151	162	185	150	65	5	2	2	2
82.5	99	102	122	116	48	2	2	1	1
85.0	65	64	67	79	31	2	1	1	1
87.5	31	31	30	34	16	1	1	1	1
90.0	0	0	0	0	0	0	0	0	0



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PAGE: 3 OF 5

5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	17
5- 10	49
10- 15	80
15- 20	107
20- 25	132
25- 30	152
30- 35	168
35- 40	179
40- 45	183
45- 50	179
50- 55	169
55- 60	153
60- 65	134
65- 70	112
70- 75	87
75- 80	59
80- 85	31
85- 90	9

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	66
0- 20	252
0- 30	536
0- 40	884
0- 50	1246
0- 60	1568
0- 70	1815
0- 80	1960
0- 90	2000



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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	99	95	106	101	97	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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.



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