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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

NVLAP
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INDEPENDENT TESTING LABORATORIES, INC.
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REPORT NUMBER: ITL85130

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ISSUE DATE: 08/10/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: HP-4-WW-D-K-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, FORMED WHITE PAINTED METAL REAR REFLECTOR/VISOR, 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, 21.5 WATTS, 0.0844 AMPS

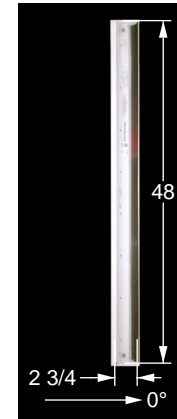
MOUNTING: SUSPENDED

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	373	373	373	373	373	
5	495	456	374	306	281	37
15	791	649	366	209	175	121
25	1018	818	347	147	115	217
35	1072	896	315	101	72	294
45	996	848	271	62	35	328
55	842	708	214	28	6	311
65	673	536	149	5	6	259
75	407	363	84	4	5	173
85	157	137	25	0	0	70
90	75	54	0	0	0	
95	11	0	0	0	0	6
105	0	0	0	0	0	0
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	375	20.6
0- 40	669	36.8
0- 60	1308	72.0
0- 90	1810	99.7
90-120	6	0.3
90-130	6	0.3
90-150	6	0.3
90-180	6	0.3
0-180	1816	100.0

EFFICACY (277V) = 84.5 lm/W

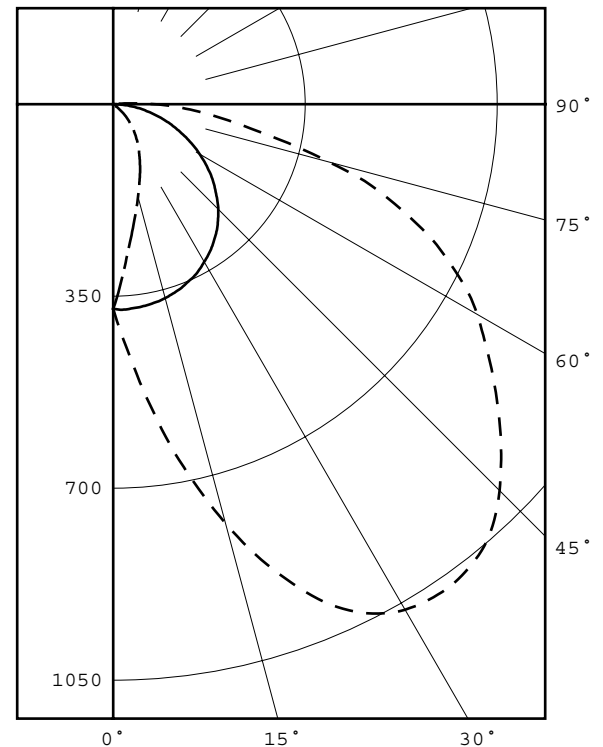
EFFICACY (120V) = 91.7 lm/W **

** THE EFFICACY AT 120 VOLTS IS BASED ON THE LUMENS FROM THIS REPORT AND THE WATTAGE MEASURED AT 120 VOLTS FROM ITL REPORT NUMBER ITL85130-THD.

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG 180-DEG

SPACING CRITERIA : 2.68 1.32 0.43



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	373	373	373	373	373	373	373	373	373
5.0	495	484	456	412	374	331	306	288	281
10.0	645	618	551	456	371	294	250	226	218
15.0	791	757	649	501	366	261	209	183	175
20.0	921	879	741	542	358	231	176	150	142
25.0	1018	973	818	576	347	204	147	123	115
30.0	1064	1023	873	601	332	179	123	99	92
35.0	1072	1031	896	615	315	155	101	79	72
40.0	1052	1012	885	614	295	132	81	60	53
45.0	996	964	848	599	271	110	62	42	35
50.0	921	890	790	570	243	88	44	24	16
55.0	842	807	708	522	214	68	28	6	6
60.0	766	725	622	459	182	49	10	6	6
65.0	673	639	536	387	149	31	5	6	6
70.0	557	536	454	312	116	15	5	5	6
75.0	407	404	363	243	84	4	4	5	5
80.0	254	257	254	181	54	3	4	5	5
85.0	157	148	137	109	25	2	0	0	0
90.0	75	68	54	28	0	0	0	0	0
95.0	11	6	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0
105.0	0	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



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	9
5- 10	28
10- 15	49
15- 20	72
20- 25	97
25- 30	120
30- 35	140
35- 40	154
40- 45	163
45- 50	165
50- 55	160
55- 60	151
60- 65	138
65- 70	121
70- 75	100
75- 80	74
80- 85	47
85- 90	23
90- 95	6
95-100	0
100-105	0
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	37
0- 20	158
0- 30	375
0- 40	669
0- 50	997
0- 60	1308
0- 70	1566
0- 80	1739
0- 90	1810
0-100	1816
0-110	1816
0-120	1816
0-130	1816
0-140	1816
0-150	1816
0-160	1816
0-170	1816
0-180	1816



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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	107	102	97	92	104	99	95	91	95	91	88	91	88	85	87	85	82	80
2	96	87	79	73	93	85	78	72	81	75	70	78	73	69	75	71	67	65
3	87	75	66	59	84	74	65	59	71	63	58	68	62	57	65	60	55	53
4	79	66	57	49	77	65	56	49	62	54	48	60	53	47	57	51	47	44
5	72	58	49	42	70	57	48	41	55	47	41	53	46	40	51	45	40	38
6	66	52	43	36	64	51	42	36	49	41	35	48	40	35	46	39	34	32
7	61	47	38	31	60	46	37	31	44	37	31	43	36	30	42	35	30	28
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	31	27	25
9	53	39	30	24	51	38	30	24	37	29	24	36	29	24	35	28	24	22
10	50	36	27	22	48	35	27	22	34	27	22	33	26	21	32	26	21	19

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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