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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: ITL85167

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ISSUE DATE: 09/08/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: S12-WM-ID-LED-DCO-4ft-2E-V-8-35-OPEN

LUMINAIRE: FABRICATED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH, WHITE PAINTED FLAT METAL END CAPS, FABRICATED WHITE PAINTED METAL FORWARD REFLECTORS/DRIVER COVER WITH WHITE PAINTED FLAT METAL TOP REFLECTOR INSERT, FABRICATED WHITE PAINTED METAL CIRCUIT BOARD MOUNT, 2 WHITE CIRCUIT BOARDS EACH WITH 80 LEDS, FLAT HOLOGRAPHIC PLASTIC BOTTOM LENS. OPEN TOP.

LAMPS: ONE HUNDRED SIXTY WHITE LIGHT EMITTING DIODES (LEDS), 80 UPPER LEDS AIMED 40-DEGREES ABOVE THE HORIZON, 80 LOWER LEDS AIMED 26-DEGREES FROM VERTICAL BASE-UP POSITION.

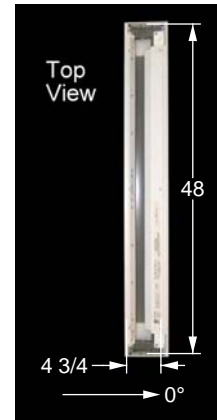
INPUT ELECTRICAL: 277.0 VOLTS, 38.2 WATTS, 0.145 AMPS
MOUNTING: WALL

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	45.0	90.0	135.0	180.0	FLUX
0	448	448	448	448	448	
5	457	454	445	436	433	42
15	454	446	423	399	387	119
25	421	413	384	348	331	175
35	366	359	330	292	274	203
45	297	292	269	234	219	203
55	221	219	204	176	164	177
65	144	145	138	119	109	130
75	70	72	72	62	55	71
85	12	13	16	13	13	17
90	1	1	0	1	2	
95	3	8	39	11	11	93
105	868	655	235	121	94	385
115	955	836	431	202	198	501
125	1090	936	607	305	274	566
135	1120	1004	757	467	379	578
145	1130	1087	873	632	548	537
155	1164	1119	958	804	713	440
165	1145	1112	1013	921	875	286
175	1075	1064	1037	1016	1000	99
180	1040	1040	1040	1040	1040	

ZONAL LUMEN SUMMARY

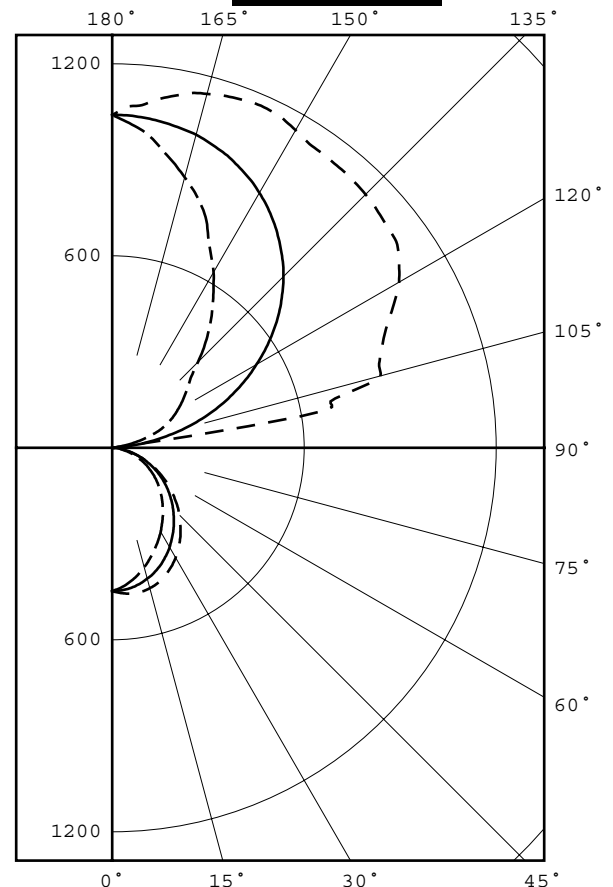
ZONE	LUMENS	%FIXT
0- 30	336	7.3
0- 40	539	11.7
0- 60	920	19.9
0- 90	1138	24.6
90-120	980	21.2
90-130	1545	33.4
90-150	2661	57.6
90-180	3486	75.4
0-180	4624	100.0

EFFICACY (277V) = 121.0 lm/W

EFFICACY (120V) = 124.3 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 ITL85167-THD.

CIE TYPE - SEMI-INDIRECT

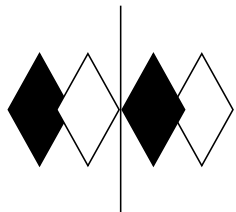


LEGEND:

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

Checked M KLOPF

Approved R BEATTIE
Lighting Engineer



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PLANE : 0-DEG 90-DEG
LUMINOUS LENGTH : 2.000 39.875

LUMINANCE DATA IN CANDELA/SQ M			
ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	90-DEG	180-DEG
45	8163.	7394.	6019.
55	7489.	6913.	5557.
65	6622.	6346.	5013.
75	5257.	5407.	4130.
85	2676.	3568.	2899.



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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	448	448	448	448	448	448	448	448	448
5.0	457	456	454	450	445	441	436	434	433
10.0	459	458	454	446	437	428	420	415	412
15.0	454	452	446	435	423	410	399	391	387
20.0	442	440	432	420	406	387	375	365	359
25.0	421	420	413	399	384	363	348	336	331
30.0	396	395	388	375	359	337	321	308	303
35.0	366	365	359	347	330	309	292	279	274
40.0	332	332	326	316	300	280	263	251	246
45.0	297	296	292	283	269	250	234	223	219
50.0	259	259	257	249	237	220	205	195	191
55.0	221	220	219	214	204	189	176	167	164
60.0	182	182	182	179	172	159	148	139	136
65.0	144	143	145	142	138	128	119	112	109
70.0	106	106	108	107	105	97	89	85	82
75.0	70	70	72	73	72	67	62	57	55
80.0	37	38	40	41	42	39	35	32	30
85.0	12	12	13	15	16	15	13	13	13
90.0	1	1	1	0	0	1	1	2	2
95.0	3	4	8	227	39	24	11	11	11
100.0	682	644	588	360	131	76	60	41	32
105.0	868	808	655	470	235	117	121	102	94
110.0	895	855	747	553	336	168	163	159	154
115.0	955	932	836	628	431	244	202	199	198
120.0	1035	1008	894	704	521	324	244	237	236
125.0	1090	1055	936	791	607	413	305	277	274
130.0	1106	1073	973	863	686	504	388	323	313
135.0	1120	1091	1004	916	757	601	467	403	379
140.0	1127	1102	1044	960	818	677	553	487	466
145.0	1130	1114	1087	995	873	751	632	567	548
150.0	1146	1142	1110	1023	920	816	730	654	634
155.0	1164	1155	1119	1042	958	874	804	745	713
160.0	1160	1150	1122	1053	989	923	866	826	810
165.0	1145	1135	1112	1056	1013	968	921	887	875
170.0	1117	1110	1088	1055	1027	1002	972	948	938
175.0	1075	1071	1064	1057	1037	1024	1016	1005	1000
180.0	1040	1040	1040	1040	1040	1040	1040	1040	1040



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	11
5- 10	32
10- 15	51
15- 20	68
20- 25	82
25- 30	93
30- 35	100
35- 40	103
40- 45	103
45- 50	100
50- 55	93
55- 60	84
60- 65	72
65- 70	58
70- 75	43
75- 80	28
80- 85	14
85- 90	3
90- 95	7
95-100	86
100-105	174
105-110	212
110-115	239
115-120	262
120-125	278
125-130	287
130-135	291
135-140	288
140-145	277
145-150	260
150-155	236
155-160	204
160-165	165
165-170	121
170-175	74
175-180	25

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	42
0- 20	161
0- 30	336
0- 40	539
0- 50	742
0- 60	920
0- 70	1050
0- 80	1121
0- 90	1138
0-100	1231
0-110	1617
0-120	2118
0-130	2684
0-140	3262
0-150	3799
0-160	4239
0-170	4525
0-180	4624



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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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21
2	84	77	71	66	74	69	64	59	53	50	47	39	37	35	26	24	23	17
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	23	21	20	15
4	70	60	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	13
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	40	34	52	42	36	31	33	28	25	25	21	19	16	15	13	10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12	9
8	50	38	31	26	45	35	28	24	27	22	19	20	17	15	14	12	10	8
9	47	35	28	23	41	31	25	21	25	20	17	19	15	13	13	11	9	7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6

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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