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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: ITL85163

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ISSUE DATE: 09/11/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: S12-LED-ID-DCO-4ft-3E-V-V-8-35-OPEN

LUMINAIRE: FABRICATED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR

FINISH, WHITE PAINTED FLAT METAL END CAPS, 2 FORMED WHITE PAINTED METAL OUTBOARD REFLECTORS/DRIVER COVERS, FORMED WHITE PAINTED METAL CENTER REFLECTOR/CIRCUIT BOARD MOUNT, 3 WHITE CIRCUIT BOARDS EACH WITH 80 LEDS, TRANSLUCENT WHITE HOLOGRAPHIC BOTTOM LENS. OPEN TOP.

LAMPS: TWO HUNDRED FORTY WHITE LIGHT EMITTING DIODES (LEDs), 160 AIMED 12-DEGREES ABOVE THE HORIZON, 80 VERTICAL BASE-UP POSITION.

INPUT ELECTRICAL: 277.0 VOLTS, 59.5 WATTS, 0.229 AMPS

TOTAL REFLECTANCE OF PAINT = 93.0 %

MOUNTING: SUSPENDED

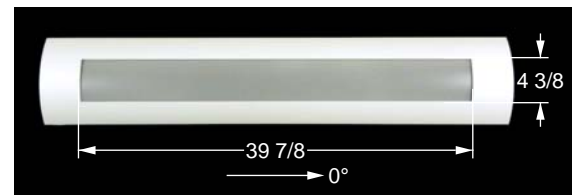
LED DRIVER: OSRAM OT50W/PRG1400C/UNV/DIM/L, CLIENT STATES DRIVER PROGRAMMED FOR 700mA OUTPUT (160 TILTED LEDS). OSRAM OT30W/PRG1050C/UNV/DIM/L,

CLIENT STATES DRIVER PROGRAMMED FOR 700mA OUTPUT (80 BASE-UP LEDS). DRIVERS HAVE MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST.

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (277VAC, 60Hz) TO THE DRIVERS.

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	754	754	754	754	754	71
5	750	750	750	750	750	202
15	718	714	718	719	718	301
25	653	649	654	656	655	354
35	567	563	568	569	568	358
45	464	462	465	467	466	317
55	353	352	354	356	356	238
65	237	238	241	242	243	138
75	122	126	130	135	138	48
85	26	32	42	51	54	647
90	0	6	16	24	27	826
95	54	414	788	1021	1090	800
105	185	499	866	1087	1162	754
115	325	575	862	1058	1130	682
125	460	680	880	1031	1082	573
135	585	765	916	1023	1061	426
145	691	803	960	1025	1046	252
155	773	819	947	1019	1040	82
165	826	840	884	929	949	
175	851	854	857	861	863	
180	855	855	855	855	855	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	574	8.1
0- 40	929	13.1
0- 60	1604	22.7
0- 90	2027	28.7
90-120	2273	32.1
90-130	3027	42.8
90-150	4282	60.6
90-180	5042	71.3
0-180	7070	100.0

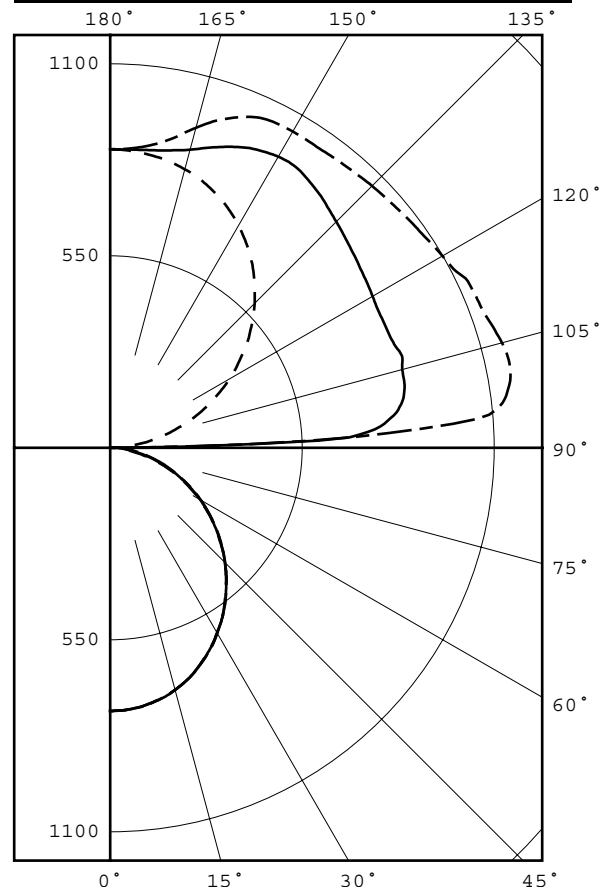
EFFICACY (277V) = 118.8 lm/W

EFFICACY (120V) = 123.0 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 ITL85163-THD.

CIE TYPE - SEMI-INDIRECT

THIS REPORT IS BASED ON PUBLISHED INDUSTRY PROCEDURES. FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE.



LEGEND:

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

Checked B. HYRE

Approved R. BEATTIE
Lighting Engineer



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LUMINANCE DATA IN CANDELA/SQ M				
ANGLE	AVERAGE	AVERAGE	AVERAGE	
IN DEG	0-DEG	45-DEG	90-DEG	
45	5828.	5841.	5853.	
55	5466.	5482.	5512.	
65	4984.	5069.	5111.	
75	4184.	4458.	4660.	
85	2651.	3338.	3562.	



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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	754	754	754	754	754
5.0	750	750	750	750	750
10.0	737	736	738	738	738
15.0	718	714	718	719	718
20.0	690	685	690	691	691
25.0	653	649	654	656	655
30.0	612	608	613	614	613
35.0	567	563	568	569	568
40.0	516	513	517	519	518
45.0	464	462	465	467	466
50.0	408	407	411	412	411
55.0	353	352	354	356	356
60.0	296	295	298	300	300
65.0	237	238	241	242	243
70.0	179	181	185	186	188
75.0	122	126	130	135	138
80.0	69	74	82	88	90
85.0	26	32	42	51	54
90.0	0	6	16	24	27
95.0	54	414	788	1021	1090
100.0	118	481	854	1086	1164
105.0	185	499	866	1087	1162
110.0	257	532	866	1072	1138
115.0	325	575	862	1058	1130
120.0	394	626	868	1041	1099
125.0	460	680	880	1031	1082
130.0	525	730	896	1026	1070
135.0	585	765	916	1023	1061
140.0	641	788	940	1022	1052
145.0	691	803	960	1025	1046
150.0	735	811	963	1030	1046
155.0	773	819	947	1019	1040
160.0	803	830	917	983	1005
165.0	826	840	884	929	949
170.0	842	848	865	881	891
175.0	851	854	857	861	863
180.0	855	855	855	855	855



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	18
5- 10	53
10- 15	86
15- 20	116
20- 25	141
25- 30	160
30- 35	174
35- 40	181
40- 45	182
45- 50	177
50- 55	166
55- 60	151
60- 65	131
65- 70	107
70- 75	82
75- 80	56
80- 85	33
85- 90	15
90- 95	247
95-100	400
100-105	414
105-110	412
110-115	405
115-120	395
120-125	384
125-130	370
130-135	353
135-140	330
140-145	303
145-150	271
150-155	234
155-160	192
160-165	148
165-170	104
170-175	62
175-180	20

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	71
0- 20	273
0- 30	574
0- 40	929
0- 50	1287
0- 60	1604
0- 70	1841
0- 80	1980
0- 90	2027
0-100	2674
0-110	3500
0-120	4300
0-130	5054
0-140	5736
0-150	6310
0-160	6736
0-170	6988
0-180	7070



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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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	37	37	37	29
1	93	89	85	81	83	80	76	73	62	60	58	47	45	44	32	31	31	24
2	85	77	71	66	75	69	64	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	52	46	63	54	47	42	43	38	34	32	29	26	22	20	19	14
5	64	53	45	40	57	48	41	36	38	33	29	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	25	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13	10
8	51	39	31	26	45	35	28	24	28	23	20	21	18	15	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	17	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7

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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