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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955



NVLAP LAB CODE: 200925-0

INDEPENDENT TESTING LABORATORIES, INC.  
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ISSUE DATE: 08/28/15

PREPARED FOR: LUMOS CUSTOM LIGHTING

CATALOG NUMBER: RM93HO-48-40-3000-REC

LUMINAIRE: EXTRUDED WHITE PAINTED METAL HOUSING WITH FABRICATED WHITE PAINTED METAL END CAPS, EXTRUDED WHITE PAINTED FINNED METAL CIRCUIT BOARD/DIFFUSER MOUNTING BRACKET, TWO WHITE CIRCUIT BOARDS EACH WITH 36 LEDS, TWO WHITE CIRCUIT BOARDS EACH WITH 30 LEDS, CLEAR ACRYLIC DROP LENS WITH FROSTED TOP, BOTTOM AND ENDS.

LAMPS: ONE HUNDRED THIRTY-TWO WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.

INPUT ELECTRICAL: 120.0 VOLTS, 50.8 WATTS, 0.424 AMPS

MOUNTING: RECESSED

LED DRIVERS: TWO ACELEDS AC-40CD1.4PMZ, DRIVERS HAVE MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST. CLIENT STATES EACH DRIVER PROGRAMMED FOR 1050mA OUTPUT.

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE DRIVERS. LENS MATERIAL INFORMATION PROVIDED BY CLIENT.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 35.0 FEET

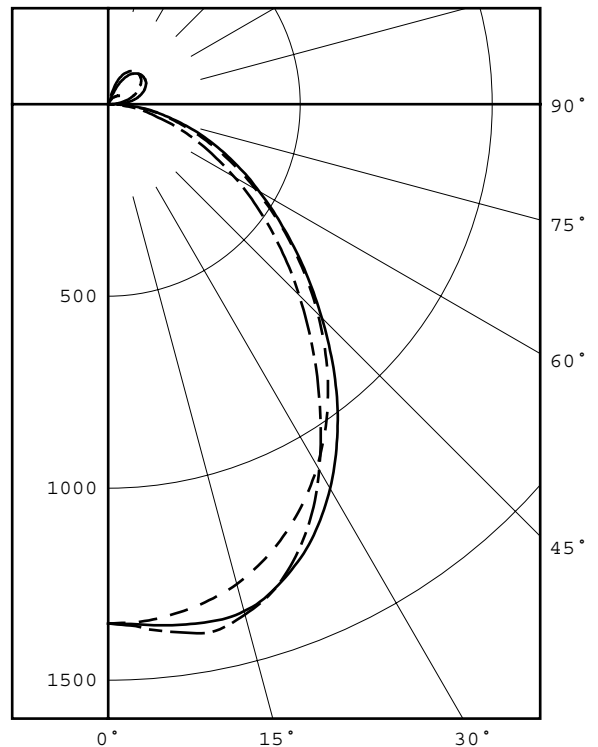
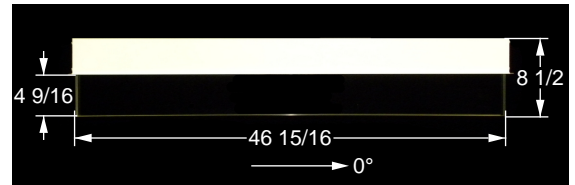
### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	FLUX
0	1352	1352	1352	1352	1352	
5	1347	1352	1362	1372	1375	130
15	1294	1320	1367	1376	1376	380
25	1172	1222	1252	1237	1224	564
35	993	1047	1041	991	961	633
45	772	822	787	729	703	594
55	548	588	554	505	479	484
65	350	386	365	318	290	345
75	191	219	203	161	136	200
85	63	76	68	43	28	69
90	22	29	26	14	5	
95	35	50	48	32	23	43
105	51	83	85	69	59	77
115	48	95	107	95	87	90
125	39	94	116	111	105	88
135	29	74	112	114	112	71
145	20	19	92	103	105	44
155	3	9	34	73	80	18
165	1	2	1	0	0	1
175	0	0	0	0	0	0
180	0	0	0	0	0	0

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	1074	28.0
0- 40	1707	44.6
0- 60	2785	72.7
0- 90	3399	88.7
90-120	210	5.5
90-130	298	7.8
90-150	412	10.8
90-180	432	11.3
0-180	3831	100.0

EFFICACY = 75.4 lm/W  
CIE TYPE - SEMI-DIRECT  
PLANE : 0-DEG 90-DEG  
SPACING CRITERIA : 1.20 1.20



LEGEND:  
0-deg -----  
45-deg =====  
90-deg -----

Checked           M KLOPF            
Approved           R BEATTIE            
Lighting Engineer



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PLANE : 0-DEG 90-DEG  
LUMINOUS LENGTH : 46.937 1.438  
HEIGHT OF SIDE : 4.562 4.562

LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	22859.	7717.	5472.
55	19272.	5156.	3467.
65	15743.	3329.	2019.
75	12440.	1871.	940.
85	7866.	653.	198.



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CANDELA DISTRIBUTION  
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	1352	1352	1352	1352	1352
5.0	1347	1352	1362	1372	1375
10.0	1327	1345	1372	1392	1399
15.0	1294	1320	1367	1376	1376
20.0	1241	1280	1322	1326	1319
25.0	1172	1222	1252	1237	1224
30.0	1089	1144	1156	1122	1099
35.0	993	1047	1041	991	961
40.0	886	940	916	855	828
45.0	772	822	787	729	703
50.0	658	703	666	612	587
55.0	548	588	554	505	479
60.0	444	481	454	406	380
65.0	350	386	365	318	290
70.0	266	298	282	238	211
75.0	191	219	203	161	136
80.0	128	142	134	105	88
85.0	63	76	68	43	28
90.0	22	29	26	14	5
95.0	35	50	48	32	23
100.0	49	71	69	52	42
105.0	51	83	85	69	59
110.0	51	91	98	84	74
115.0	48	95	107	95	87
120.0	44	96	114	105	97
125.0	39	94	116	111	105
130.0	34	87	116	114	110
135.0	29	74	112	114	112
140.0	24	46	104	110	110
145.0	20	19	92	103	105
150.0	10	14	71	92	95
155.0	3	9	34	73	80
160.0	2	5	3	33	53
165.0	1	2	1	0	0
170.0	0	0	0	0	0
175.0	0	0	0	0	0
180.0	0	0	0	0	0



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	32
5- 10	98
10- 15	161
15- 20	219
20- 25	265
25- 30	298
30- 35	315
35- 40	318
40- 45	307
45- 50	287
50- 55	259
55- 60	226
60- 65	191
65- 70	154
70- 75	118
75- 80	82
80- 85	50
85- 90	19
90- 95	16
95-100	27
100-105	36
105-110	41
110-115	44
115-120	46
120-125	45
125-130	43
130-135	38
135-140	33
140-145	25
145-150	19
150-155	12
155-160	6
160-165	1
165-170	0
170-175	0
175-180	0

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	130
0- 20	510
0- 30	1074
0- 40	1707
0- 50	2301
0- 60	2785
0- 70	3130
0- 80	3330
0- 90	3399
0-100	3442
0-110	3519
0-120	3609
0-130	3697
0-140	3768
0-150	3812
0-160	3830
0-170	3831
0-180	3831



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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	116	116	116	116	112	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	107	102	98	94	103	99	95	92	92	92	90	87	87	84	82	81	80	78	75
2	97	90	83	78	94	87	81	76	82	77	73	77	73	69	72	69	66	66	63
3	89	79	72	65	86	77	70	64	72	66	62	68	63	59	64	60	57	54	54
4	82	71	62	56	79	69	61	55	65	58	53	61	56	51	58	53	49	47	47
5	76	63	55	49	73	62	54	48	58	51	46	55	49	45	52	47	43	41	41
6	70	57	49	43	67	56	48	42	53	46	41	50	44	40	48	42	38	36	36
7	65	52	44	38	63	51	43	37	48	41	36	46	40	35	44	38	34	32	32
8	61	48	39	34	58	46	39	33	44	37	33	42	36	32	40	35	31	29	29
9	57	44	36	31	55	43	35	30	41	34	30	39	33	29	37	32	28	26	26
10	53	40	33	28	51	40	32	27	38	31	27	36	30	26	35	29	26	24	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.



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