

REPORT NUMBER: ITL85551

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ISSUE DATE: 09/25/15

PREPARED FOR: LUMOS CUSTOM LIGHTING

CATALOG NUMBER: RM93-48-40-3000-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, CLEAR ACRYLIC DROP LENS WITH FROSTED TOP, BOTTOM AND ENDS.
LAMPS: SEVENTY-TWO WHITE LIGHT EMITTING DIODES (LEDs), VERTICAL BASE-UP POSITION.

INPUT ELECTRICAL: 120.0 VOLTS, 25.7 WATTS, 0.215 AMPS

MOUNTING: RECESSED

LED DRIVER: ACELEDS AC-25CD1.25APMV, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST. CLIENT STATES DRIVER PROGRAMMED FOR 600mA OUTPUT.

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

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 35.0 FEET

CANDELA DISTRIBUTION

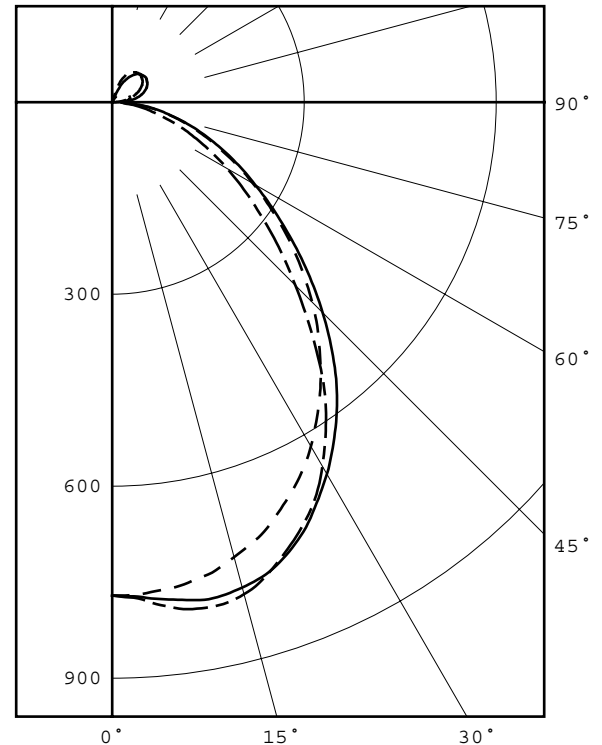
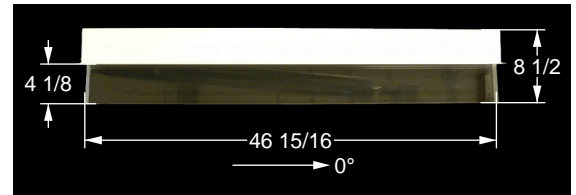
FLUX

	0.0	22.5	45.0	67.5	90.0	
0	771	771	771	771	771	
5	767	772	779	785	787	75
15	736	757	785	796	796	219
25	668	702	725	721	718	326
35	565	604	610	593	582	371
45	442	474	465	426	405	345
55	313	338	320	282	264	276
65	200	219	205	175	157	194
75	111	124	113	88	73	112
85	37	44	38	24	15	39
90	13	17	15	8	3	
95	21	29	27	18	13	25
105	29	48	48	39	33	43
115	27	53	60	53	48	50
125	22	52	65	61	58	49
135	16	41	62	63	61	39
145	11	11	49	56	57	24
155	2	6	18	40	43	10
165	0	1	0	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	620	28.2
0- 40	991	45.1
0- 60	1612	73.4
0- 90	1956	89.0
90-120	118	5.4
90-130	167	7.6
90-150	230	10.5
90-180	241	11.0
0-180	2197	100.0

EFFICACY = 85.5 lm/W
CIE TYPE - SEMI-DIRECT
PLANE : 0-DEG 90-DEG
SPACING CRITERIA : 1.20 1.24



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

Checked M KLOPF
Approved R BEATTIE
Lighting Engineer



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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955



INDEPENDENT TESTING LABORATORIES, INC.
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PLANE : 0-DEG 90-DEG
LUMINOUS LENGTH : 46.937 1.438
HEIGHT OF SIDE : 4.125 4.125

LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	13200.	4887.	3400.
55	11138.	3215.	2074.
65	9147.	2032.	1193.
75	7419.	1139.	553.
85	4865.	402.	117.



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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	771	771	771	771	771
5.0	767	772	779	785	787
10.0	757	769	790	801	803
15.0	736	757	785	796	796
20.0	708	737	765	766	762
25.0	668	702	725	721	718
30.0	621	657	671	666	657
35.0	565	604	610	593	582
40.0	504	542	541	511	492
45.0	442	474	465	426	405
50.0	377	405	390	348	330
55.0	313	338	320	282	264
60.0	254	276	258	225	207
65.0	200	219	205	175	157
70.0	153	170	157	131	114
75.0	111	124	113	88	73
80.0	72	81	75	58	47
85.0	37	44	38	24	15
90.0	13	17	15	8	3
95.0	21	29	27	18	13
100.0	28	41	39	29	23
105.0	29	48	48	39	33
110.0	28	51	55	47	41
115.0	27	53	60	53	48
120.0	24	54	63	58	54
125.0	22	52	65	61	58
130.0	19	48	64	63	60
135.0	16	41	62	63	61
140.0	13	25	57	60	60
145.0	11	11	49	56	57
150.0	6	8	38	50	52
155.0	2	6	18	40	43
160.0	1	3	2	17	27
165.0	0	1	0	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	19
5- 10	56
10- 15	93
15- 20	126
20- 25	153
25- 30	173
30- 35	185
35- 40	187
40- 45	179
45- 50	166
50- 55	148
55- 60	128
60- 65	107
65- 70	86
70- 75	66
75- 80	46
80- 85	28
85- 90	11
90- 95	9
95-100	16
100-105	20
105-110	23
110-115	25
115-120	25
120-125	25
125-130	24
130-135	21
135-140	18
140-145	14
145-150	10
150-155	7
155-160	3
160-165	1
165-170	0
170-175	0
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	75
0- 20	293
0- 30	620
0- 40	991
0- 50	1336
0- 60	1612
0- 70	1805
0- 80	1917
0- 90	1956
0-100	1981
0-110	2024
0-120	2075
0-130	2123
0-140	2162
0-150	2186
0-160	2196
0-170	2197
0-180	2197



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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	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	107	102	98	95	103	99	95	92	93	90	87	87	85	83	82	80	78	76	76
2	98	90	83	78	94	87	81	76	82	77	73	77	73	70	72	69	67	64	64
3	89	80	72	66	86	77	70	64	73	67	62	69	64	60	65	61	57	55	55
4	82	71	63	56	79	69	61	55	65	59	53	61	56	52	58	54	50	47	47
5	76	64	55	49	73	62	54	48	59	52	47	56	50	45	53	48	44	41	41
6	70	58	49	43	68	56	48	42	53	46	41	50	44	40	48	43	39	37	37
7	65	52	44	38	63	51	43	38	48	42	37	46	40	36	44	39	35	33	33
8	61	48	40	34	59	47	39	34	44	38	33	42	36	32	40	35	31	29	29
9	57	44	36	31	55	43	36	30	41	34	30	39	33	29	37	32	28	26	26
10	53	41	33	28	52	40	33	28	38	32	27	36	31	26	35	30	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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