

REPORT NUMBER: ITL82326

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ISSUE DATE: 07/28/14

PREPARED FOR: RAB LIGHTING, INC.

CATALOG NUMBER: TRLED2X2-37N/D10

LUMINAIRE: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH, FORMED WHITE PAINTED METAL DRIVER COVER, 4 WHITE CIRCUIT BOARDS EACH WITH 32 LEDS, CLEAR FLAT PRISMATIC PLASTIC LENS IN FABRICATED WHITE PAINTED METAL FRAME. LENS PRISMS OUT.

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

TOTAL INPUT WATTS = 38.0 AT 120.0 VOLTS

MOUNTING: RECESSED

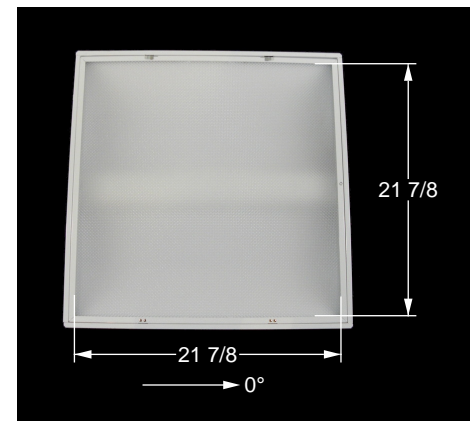
LED DRIVER: RAB LIGHTING RDD-037W-350G, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST.

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

DRIVER INFORMATION PROVIDED BY CLIENT.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 20.0 FEET



#### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	
0	1511	1511	1511	1511	1511	
5	1501	1502	1503	1500	1501	142
15	1413	1417	1421	1423	1424	400
25	1244	1250	1257	1266	1268	578
35	1015	1019	1028	1036	1040	641
45	757	756	761	764	766	587
55	507	505	509	505	507	455
65	316	311	306	306	311	310
75	185	181	177	179	181	190
85	68	64	64	59	64	68
90	0	0	0	0	0	

#### FLUX

#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	1120	33.2
0- 40	1761	52.3
0- 60	2802	83.2
0- 90	3370	100.0
90-180	0	0.0
0-180	3370	100.0

EFFICACY = 88.7 lm/W

CIE TYPE - DIRECT

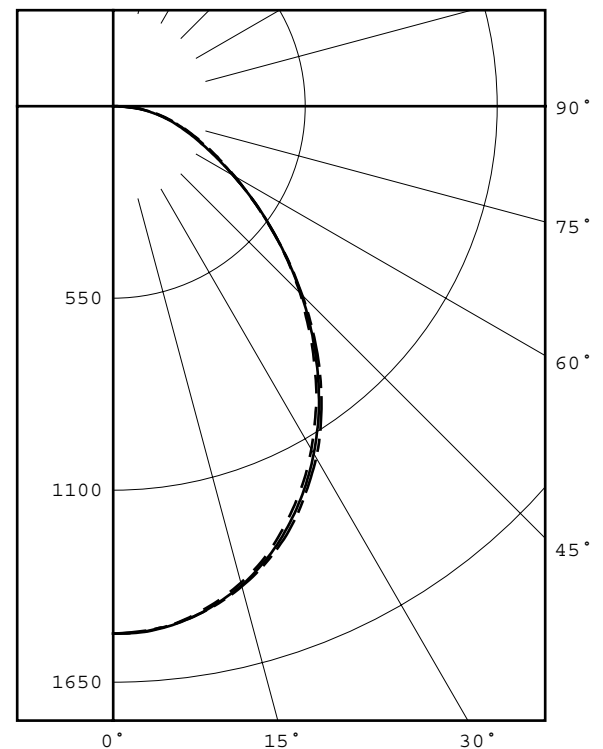
PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.13 1.15

LUMINOUS LENGTH : 21.875 21.875

#### LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	3468.	3486.	3509.
55	2863.	2875.	2863.
65	2422.	2345.	2384.
75	2315.	2215.	2265.
85	2527.	2379.	2379.



#### LEGEND:

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

Checked B. HYRE  
Approved R. BEATTIE  
Lighting Engineer



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# CANDELA DISTRIBUTION LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	1511	1511	1511	1511	1511
2.5	1510	1510	1510	1507	1507
5.0	1501	1502	1503	1500	1501
7.5	1488	1489	1490	1489	1489
10.0	1467	1470	1472	1472	1472
12.5	1443	1446	1448	1451	1451
15.0	1413	1417	1421	1423	1424
17.5	1380	1382	1387	1392	1393
20.0	1339	1342	1349	1355	1357
22.5	1293	1299	1305	1313	1316
25.0	1244	1250	1257	1266	1268
27.5	1192	1198	1205	1215	1216
30.0	1135	1141	1149	1159	1163
32.5	1075	1081	1090	1099	1104
35.0	1015	1019	1028	1036	1040
37.5	949	955	962	970	974
40.0	884	889	896	902	906
42.5	818	823	829	833	836
45.0	757	756	761	764	766
47.5	692	691	695	696	698
50.0	629	627	630	629	631
52.5	565	565	568	565	567
55.0	507	505	509	505	507
57.5	452	450	451	448	451
60.0	402	400	398	395	399
62.5	357	353	350	348	352
65.0	316	311	306	306	311
67.5	279	274	268	270	275
70.0	245	241	235	237	241
72.5	214	210	204	207	210
75.0	185	181	177	179	181
77.5	156	152	149	149	152
80.0	128	122	121	120	123
82.5	100	94	94	89	94
85.0	68	64	64	59	64
87.5	33	33	32	28	29
90.0	0	0	0	0	0



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	36
5- 10	106
10- 15	171
15- 20	228
20- 25	273
25- 30	305
30- 35	320
35- 40	321
40- 45	306
45- 50	280
50- 55	246
55- 60	208
60- 65	171
65- 70	138
70- 75	109
75- 80	81
80- 85	51
85- 90	17

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	142
0- 20	542
0- 30	1120
0- 40	1761
0- 50	2348
0- 60	2802
0- 70	3112
0- 80	3302
0- 90	3370



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	41	34	30	40	34	30	28

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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