

REPORT NUMBER: ITL82330

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ISSUE DATE: 07/30/14

PREPARED FOR: RAB LIGHTING, INC.

CATALOG NUMBER: TRLED2X4-37Y/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 = 38.8 AT 120.0 VOLTS

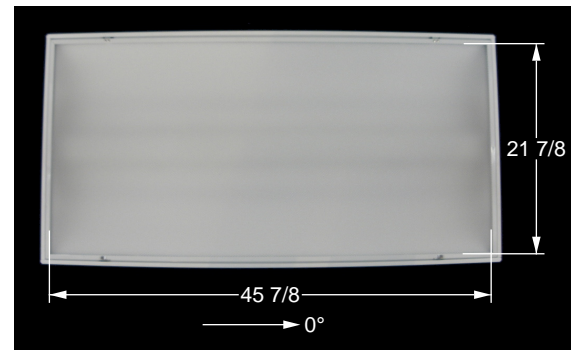
MOUNTING: RECESSED

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 = 35.0 FEET



#### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	FLUX
0	1431	1431	1431	1431	1431	
5	1421	1426	1425	1424	1424	135
15	1352	1357	1355	1354	1354	382
25	1210	1213	1213	1212	1211	557
35	1002	1004	1004	1003	1002	626
45	756	757	756	751	748	582
55	515	514	512	502	500	457
65	320	316	310	308	311	313
75	186	182	179	181	187	193
85	69	65	69	70	74	72
90	0	0	0	0	0	

#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	1074	32.4
0- 40	1700	51.3
0- 60	2738	82.6
0- 90	3316	100.0
90-180	0	0.0
0-180	3316	100.0

EFFICACY = 85.5 lm/W

CIE TYPE - DIRECT

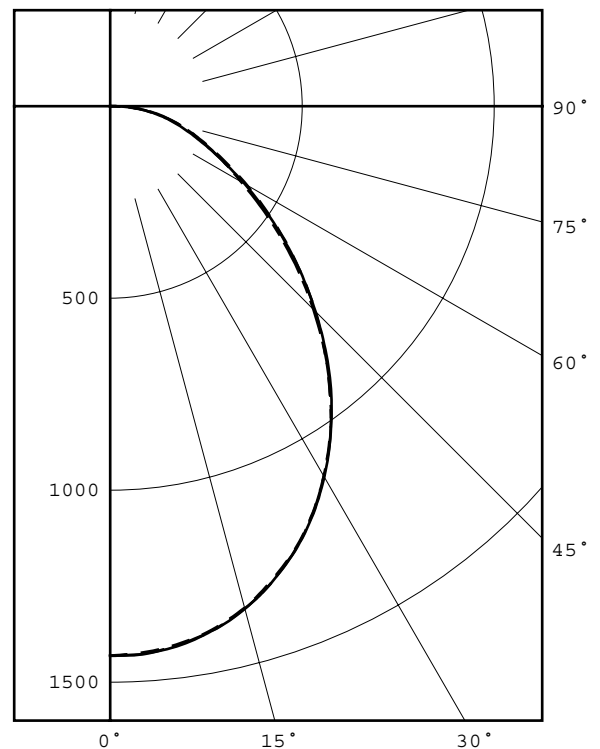
PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.16 1.16

LUMINOUS LENGTH : 45.875 21.875

#### LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	1651.	1651.	1634.
55	1387.	1379.	1346.
65	1170.	1133.	1137.
75	1110.	1068.	1116.
85	1223.	1223.	1311.



#### 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	1431	1431	1431	1431	1431
2.5	1427	1431	1431	1429	1430
5.0	1421	1426	1425	1424	1424
7.5	1410	1416	1415	1413	1413
10.0	1396	1401	1399	1397	1398
12.5	1376	1382	1380	1378	1379
15.0	1352	1357	1355	1354	1354
17.5	1322	1328	1326	1326	1326
20.0	1288	1294	1292	1293	1291
22.5	1252	1256	1255	1255	1254
25.0	1210	1213	1213	1212	1211
27.5	1163	1166	1166	1166	1164
30.0	1112	1115	1115	1115	1112
32.5	1058	1061	1061	1060	1060
35.0	1002	1004	1004	1003	1002
37.5	939	946	946	942	941
40.0	879	884	884	880	878
42.5	815	821	820	815	813
45.0	756	757	756	751	748
47.5	693	695	693	687	684
50.0	632	633	631	623	621
52.5	573	573	570	562	560
55.0	515	514	512	502	500
57.5	462	460	456	446	445
60.0	411	408	404	395	394
62.5	363	360	354	348	351
65.0	320	316	310	308	311
67.5	282	278	271	272	276
70.0	247	243	237	239	243
72.5	216	212	207	209	215
75.0	186	182	179	181	187
77.5	157	153	152	154	159
80.0	128	124	124	126	132
82.5	99	94	97	98	104
85.0	69	65	69	70	74
87.5	33	34	36	37	39
90.0	0	0	0	0	0



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	34
5- 10	101
10- 15	163
15- 20	218
20- 25	263
25- 30	294
30- 35	312
35- 40	314
40- 45	303
45- 50	279
50- 55	247
55- 60	210
60- 65	173
65- 70	140
70- 75	110
75- 80	82
80- 85	53
85- 90	19

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	135
0- 20	517
0- 30	1074
0- 40	1700
0- 50	2281
0- 60	2738
0- 70	3051
0- 80	3244
0- 90	3316



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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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	53
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	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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