

REPORT NUMBER: ITL82325

PAGE: 1 OF 5

ISSUE DATE: 07/28/14

PREPARED FOR: RAB LIGHTING, INC.

CATALOG NUMBER: TRLED2X2-37YN/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 = 37.5 AT 120.0 VOLTS

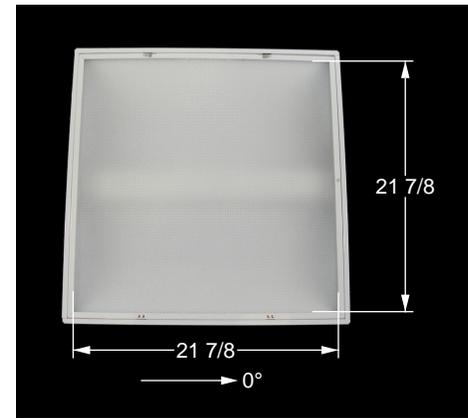
MOUNTING: RECESSED

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

FLUX

	0.0	22.5	45.0	67.5	90.0	
0	1496	1496	1496	1496	1496	
5	1486	1487	1488	1485	1484	141
15	1400	1402	1407	1410	1411	396
25	1233	1237	1247	1254	1259	572
35	1003	1008	1018	1024	1029	634
45	745	747	751	755	756	579
55	502	497	499	498	497	448
65	310	303	298	299	303	302
75	180	174	171	172	178	184
85	65	62	60	57	60	65
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXT
0- 30	1109	33.4
0- 40	1744	52.5
0- 60	2770	83.4
0- 90	3322	100.0
90-180	0	0.0
0-180	3322	100.0

EFFICACY = 88.6 lm/W

CIE TYPE - DIRECT

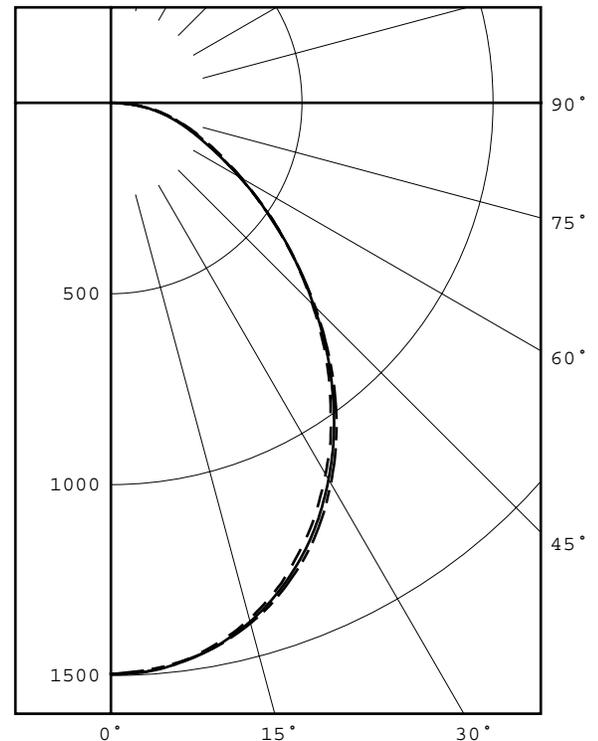
PLANE : 0-DEG 90-DEG

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	3413.	3440.	3463.
55	2835.	2818.	2807.
65	2376.	2284.	2322.
75	2253.	2140.	2228.
85	2416.	2230.	2230.

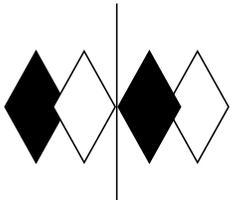


LEGEND:

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

Checked B. HYRE

Approved R. BEATTIE
Lighting Engineer



itl boulder
 THE LIGHT CENTER OF THE INDUSTRY SINCE 1955



INDEPENDENT TESTING LABORATORIES, INC.
 4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL82325

PAGE: 2 OF 5

ISSUE DATE: 07/28/14

PREPARED FOR: RAB LIGHTING, INC.

CANDELA DISTRIBUTION
 LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	1496	1496	1496	1496	1496
2.5	1495	1496	1495	1492	1491
5.0	1486	1487	1488	1485	1484
7.5	1473	1474	1475	1474	1473
10.0	1453	1455	1458	1458	1458
12.5	1429	1431	1435	1436	1437
15.0	1400	1402	1407	1410	1411
17.5	1365	1368	1374	1378	1381
20.0	1326	1329	1336	1342	1344
22.5	1280	1285	1294	1301	1304
25.0	1233	1237	1247	1254	1259
27.5	1179	1185	1195	1203	1207
30.0	1123	1130	1139	1147	1151
32.5	1067	1070	1080	1087	1092
35.0	1003	1008	1018	1024	1029
37.5	941	944	953	959	963
40.0	877	879	887	891	895
42.5	811	813	819	822	825
45.0	745	747	751	755	756
47.5	683	682	685	688	687
50.0	620	618	621	623	621
52.5	560	557	559	557	557
55.0	502	497	499	498	497
57.5	445	442	443	441	441
60.0	396	391	390	388	390
62.5	350	344	341	341	343
65.0	310	303	298	299	303
67.5	273	267	261	262	268
70.0	240	234	228	230	236
72.5	210	204	199	201	207
75.0	180	174	171	172	178
77.5	152	146	144	144	148
80.0	125	118	117	116	119
82.5	95	90	89	86	90
85.0	65	62	60	57	60
87.5	31	31	28	27	26
90.0	0	0	0	0	0



INDEPENDENT TESTING LABORATORIES, INC.
4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL82325
ISSUE DATE: 07/28/14
PREPARED FOR: RAB LIGHTING, INC.

PAGE: 3 OF 5

5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	36
5- 10	105
10- 15	170
15- 20	226
20- 25	271
25- 30	302
30- 35	317
35- 40	317
40- 45	303
45- 50	277
50- 55	243
55- 60	205
60- 65	167
65- 70	135
70- 75	106
75- 80	78
80- 85	49
85- 90	16

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	141
0- 20	537
0- 30	1109
0- 40	1744
0- 50	2323
0- 60	2770
0- 70	3073
0- 80	3257
0- 90	3322



INDEPENDENT TESTING LABORATORIES, INC.
4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL82325

PAGE: 4 OF 5

ISSUE DATE: 07/28/14

PREPARED FOR: RAB LIGHTING, INC.

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	119	116	116	116	116	111	111	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	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	81	78	75	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	73	68	64	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	65	60	56	54
5	79	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	59	54	50	48
6	73	60	52	46	71	59	51	45	57	50	45	56	49	45	54	49	44	54	49	44	42
7	68	55	47	41	66	54	46	41	53	45	40	51	45	40	50	44	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	46	40	36	34
9	59	46	39	33	58	46	38	33	45	38	33	44	37	33	43	37	33	43	37	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	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.



itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955



NVLAP LAB CODE: 200925-0

INDEPENDENT TESTING LABORATORIES, INC.
4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL82325
ISSUE DATE: 07/28/14
PREPARED FOR: RAB LIGHTING, INC.

PAGE: 5 OF 5

ADDRESS: 170 LUDLOW AVE
NORTHVALE, NJ 07647

THIS ITL REPORT WITH THE USE OF THE NVLAP LOGO SHALL NOT BE USED BY THE CLIENT TO CLAIM PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NVLAP, NIST, OR ANY AGENCY OF THE FEDERAL GOVERNMENT.