

REPORT NUMBER: ITL82328

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ISSUE DATE: 07/25/14

PREPARED FOR: RAB LIGHTING, INC.

CATALOG NUMBER: TRLED2X2-50YN/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 = 51.1 AT 120.0 VOLTS

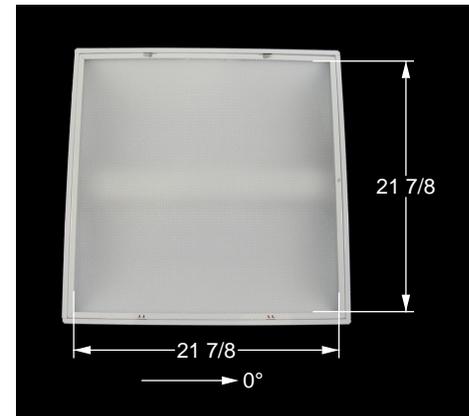
MOUNTING: RECESSED

LED DRIVER: RAB LIGHTING RDD-050W-450G, 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	FLUX
0	1892	1892	1892	1892	1892	
5	1880	1882	1882	1879	1879	178
15	1771	1775	1781	1784	1786	501
25	1563	1566	1578	1586	1593	725
35	1271	1277	1290	1297	1301	803
45	949	949	954	956	957	735
55	633	633	633	630	630	568
65	393	387	379	379	385	384
75	228	223	218	220	226	235
85	83	79	77	73	77	82
90	0	0	0	0	0	

FLUX

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXT
0- 30	1404	33.3
0- 40	2207	52.4
0- 60	3509	83.4
0- 90	4210	100.0
90-180	0	0.0
0-180	4210	100.0

EFFICACY = 82.4 lm/W

CIE TYPE - DIRECT

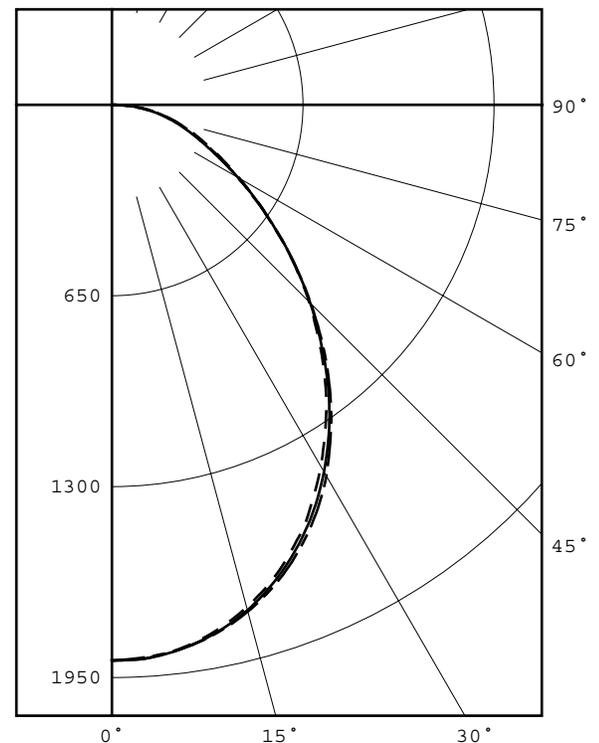
PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.13 1.16

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	4347.	4370.	4384.
55	3575.	3575.	3558.
65	3012.	2905.	2951.
75	2853.	2728.	2828.
85	3085.	2862.	2862.



LEGEND:

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

Checked B. HYRE

Approved R. BEATTIE
Lighting Engineer



INDEPENDENT TESTING LABORATORIES, INC.
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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	1892	1892	1892	1892	1892
2.5	1891	1892	1891	1887	1887
5.0	1880	1882	1882	1879	1879
7.5	1863	1865	1866	1865	1866
10.0	1839	1842	1844	1845	1846
12.5	1808	1812	1816	1817	1819
15.0	1771	1775	1781	1784	1786
17.5	1728	1732	1739	1744	1747
20.0	1679	1684	1691	1697	1702
22.5	1622	1626	1637	1646	1650
25.0	1563	1566	1578	1586	1593
27.5	1492	1500	1513	1521	1529
30.0	1421	1430	1443	1452	1459
32.5	1346	1355	1368	1377	1380
35.0	1271	1277	1290	1297	1301
37.5	1193	1196	1208	1214	1217
40.0	1111	1114	1122	1129	1132
42.5	1028	1031	1037	1043	1044
45.0	949	949	954	956	957
47.5	867	867	871	871	870
50.0	787	786	789	787	787
52.5	706	708	708	706	706
55.0	633	633	633	630	630
57.5	565	563	562	558	559
60.0	501	498	495	491	494
62.5	444	439	433	431	436
65.0	393	387	379	379	385
67.5	346	340	331	334	340
70.0	304	298	290	293	300
72.5	265	259	253	256	263
75.0	228	223	218	220	226
77.5	192	187	182	184	189
80.0	157	151	148	148	152
82.5	121	115	113	110	115
85.0	83	79	77	73	77
87.5	39	39	37	33	32
90.0	0	0	0	0	0



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	45
5- 10	133
10- 15	215
15- 20	286
20- 25	343
25- 30	382
30- 35	402
35- 40	402
40- 45	384
45- 50	351
50- 55	308
55- 60	260
60- 65	213
65- 70	171
70- 75	135
75- 80	100
80- 85	62
85- 90	20

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	178
0- 20	679
0- 30	1404
0- 40	2207
0- 50	2942
0- 60	3509
0- 70	3893
0- 80	4128
0- 90	4210



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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	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	95	92	90	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	72
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	78	66	58	51	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	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	50	44	40	38
8	63	50	42	37	62	50	42	36	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	54	42	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

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