

REPORT NUMBER: ITL82329

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ISSUE DATE: 07/24/14

PREPARED FOR: RAB LIGHTING, INC.

CATALOG NUMBER: TRLED2X2-50N/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

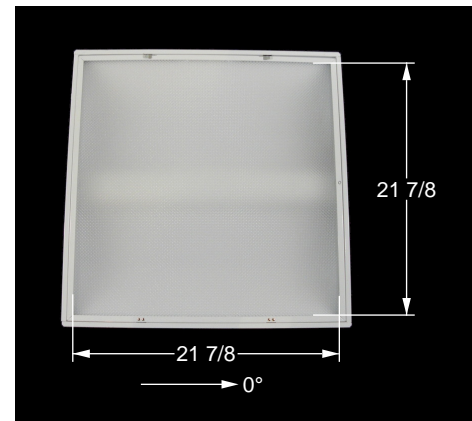
MOUNTING: RECESSED

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	
0	1893	1893	1893	1893	1893	
5	1881	1883	1883	1881	1879	178
15	1772	1776	1782	1784	1786	501
25	1561	1567	1579	1587	1592	725
35	1271	1277	1289	1301	1304	804
45	946	949	954	962	961	737
55	637	637	637	636	636	572
65	396	392	385	385	391	389
75	233	226	223	224	228	239
85	85	82	81	76	80	85
90	0	0	0	0	0	

FLUX

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	1404	33.2
0- 40	2209	52.2
0- 60	3517	83.1
0- 90	4230	100.0
90-180	0	0.0
0-180	4230	100.0

EFFICACY = 82.8 lm/W

CIE TYPE - DIRECT

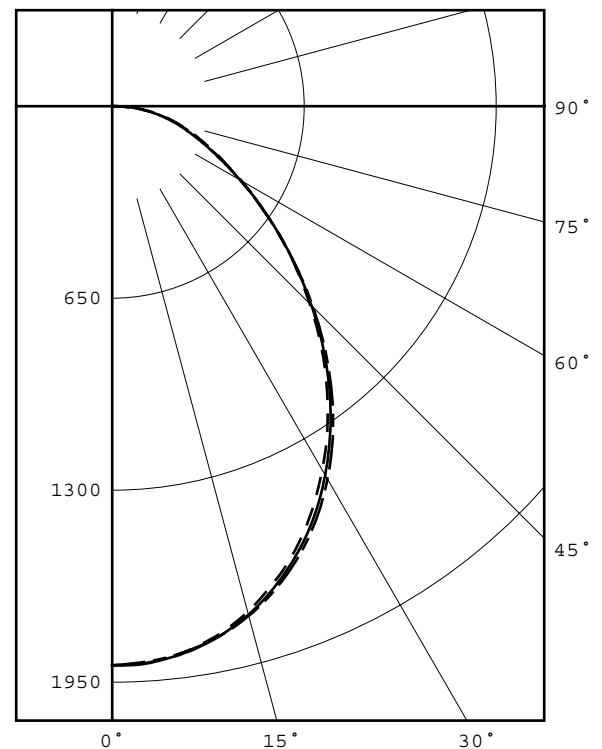
PLANE : 0-DEG 90-DEG

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	4334.	4370.	4402.
55	3597.	3597.	3592.
65	3035.	2951.	2997.
75	2916.	2791.	2853.
85	3159.	3010.	2973.



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	1893	1893	1893	1893	1893
2.5	1891	1893	1893	1890	1887
5.0	1881	1883	1883	1881	1879
7.5	1864	1866	1868	1866	1864
10.0	1840	1843	1846	1844	1845
12.5	1810	1813	1817	1818	1819
15.0	1772	1776	1782	1784	1786
17.5	1727	1733	1740	1744	1747
20.0	1678	1683	1691	1699	1701
22.5	1623	1628	1638	1646	1650
25.0	1561	1567	1579	1587	1592
27.5	1493	1501	1513	1523	1528
30.0	1422	1430	1442	1455	1457
32.5	1351	1356	1367	1380	1383
35.0	1271	1277	1289	1301	1304
37.5	1193	1197	1208	1218	1221
40.0	1112	1115	1124	1134	1135
42.5	1029	1032	1039	1048	1048
45.0	946	949	954	962	961
47.5	864	868	871	877	875
50.0	787	788	790	794	791
52.5	710	711	712	712	712
55.0	637	637	637	636	636
57.5	568	567	567	563	565
60.0	506	502	500	497	500
62.5	446	444	440	438	442
65.0	396	392	385	385	391
67.5	350	345	338	339	345
70.0	308	302	296	298	304
72.5	270	263	258	260	266
75.0	233	226	223	224	228
77.5	197	190	187	187	191
80.0	161	155	152	151	155
82.5	123	118	117	113	118
85.0	85	82	81	76	80
87.5	42	42	40	36	35
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	385
45- 50	352
50- 55	310
55- 60	262
60- 65	215
65- 70	174
70- 75	137
75- 80	101
80- 85	64
85- 90	22

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	178
0- 20	679
0- 30	1404
0- 40	2209
0- 50	2945
0- 60	3517
0- 70	3906
0- 80	4145
0- 90	4230



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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	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	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	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	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	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.



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