

REPORT NUMBER: ITL82327

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ISSUE DATE: 07/25/14

PREPARED FOR: RAB LIGHTING, INC.

CATALOG NUMBER: TRLED2X2-50Y/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 = 49.7 AT 120.0 VOLTS

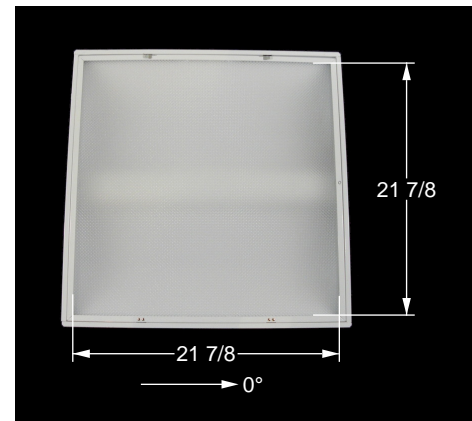
MOUNTING: RECESSED

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	1785	1785	1785	1785	1785	
5	1777	1778	1779	1775	1775	169
15	1682	1684	1691	1694	1696	476
25	1488	1494	1507	1519	1524	692
35	1213	1218	1232	1244	1250	767
45	879	885	894	898	900	688
55	570	569	569	558	560	508
65	337	327	320	322	329	328
75	196	188	186	189	198	201
85	70	64	66	66	73	71
90	0	0	0	0	0	

FLUX

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	1336	34.3
0- 40	2104	54.0
0- 60	3299	84.6
0- 90	3899	100.0
90-180	0	0.0
0-180	3899	100.0

EFFICACY = 78.5 lm/W

CIE TYPE - DIRECT

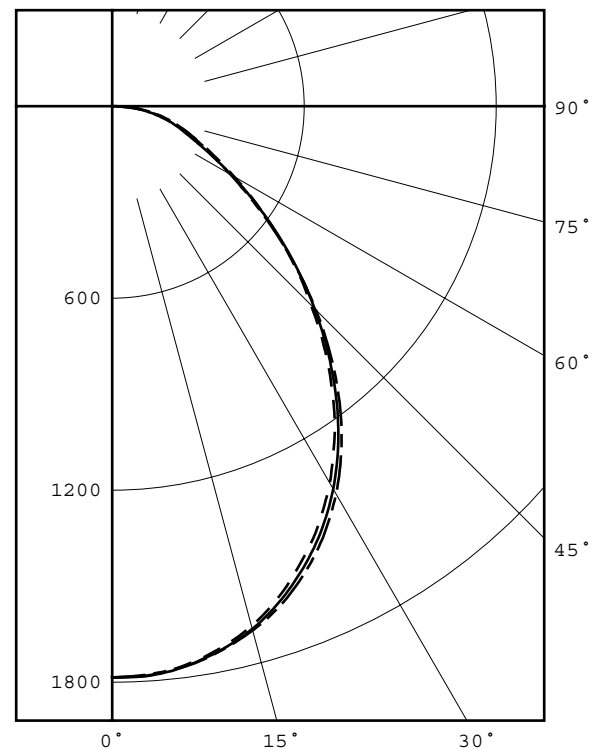
PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.15 1.17

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	4027.	4095.	4123.
55	3219.	3213.	3163.
65	2583.	2453.	2522.
75	2453.	2328.	2478.
85	2602.	2453.	2713.



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	1785	1785	1785	1785	1785
2.5	1784	1785	1785	1782	1782
5.0	1777	1778	1779	1775	1775
7.5	1761	1763	1765	1763	1765
10.0	1740	1743	1745	1746	1747
12.5	1714	1716	1721	1722	1723
15.0	1682	1684	1691	1694	1696
17.5	1642	1646	1654	1659	1663
20.0	1595	1603	1610	1619	1623
22.5	1542	1550	1561	1572	1576
25.0	1488	1494	1507	1519	1524
27.5	1425	1432	1447	1458	1464
30.0	1360	1365	1381	1392	1399
32.5	1286	1293	1309	1321	1327
35.0	1213	1218	1232	1244	1250
37.5	1131	1138	1150	1160	1167
40.0	1048	1055	1065	1076	1080
42.5	964	970	980	987	991
45.0	879	885	894	898	900
47.5	801	802	810	809	810
50.0	720	720	727	722	722
52.5	642	642	646	636	638
55.0	570	569	569	558	560
57.5	503	499	497	486	489
60.0	441	433	430	423	427
62.5	385	376	371	368	374
65.0	337	327	320	322	329
67.5	296	286	278	284	292
70.0	259	251	243	250	259
72.5	227	219	214	219	228
75.0	196	188	186	189	198
77.5	165	158	156	160	168
80.0	133	127	127	129	139
82.5	102	95	97	98	107
85.0	70	64	66	66	73
87.5	33	31	31	31	33
90.0	0	0	0	0	0



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	43
5- 10	126
10- 15	204
15- 20	272
20- 25	327
25- 30	365
30- 35	384
35- 40	383
40- 45	362
45- 50	326
50- 55	279
55- 60	229
60- 65	183
65- 70	145
70- 75	115
75- 80	86
80- 85	53
85- 90	18

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	169
0- 20	644
0- 30	1336
0- 40	2104
0- 50	2791
0- 60	3299
0- 70	3627
0- 80	3828
0- 90	3899



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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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	78	72	68	76	71	66	73	69	65	63
4	85	74	66	60	83	73	65	59	71	64	59	68	63	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	41	67	55	47	41	53	46	41	52	46	41	51	45	40	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

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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