

REPORT NUMBER: ITL82335

PAGE: 1 OF 5

ISSUE DATE: 07/29/14

PREPARED FOR: RAB LIGHTING, INC.

CATALOG NUMBER: TRLED2X4-50N/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 = 49.6 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 = 35.0 FEET

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1832	1832	1832	1832	1832
5	1819	1826	1823	1821	1822
15	1728	1735	1731	1729	1731
25	1542	1548	1546	1544	1546
35	1278	1282	1279	1276	1275
45	964	966	960	957	953
55	660	659	653	643	637
65	411	406	398	395	398
75	237	234	231	232	238
85	88	83	86	88	93
90	0	0	0	0	0

FLUX

173
488
711
798
741
584
401
247
91

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	1371	32.4
0- 40	2169	51.2
0- 60	3493	82.5
0- 90	4233	100.0
90-180	0	0.0
0-180	4233	100.0

EFFICACY = 85.3 lm/W

CIE TYPE - DIRECT

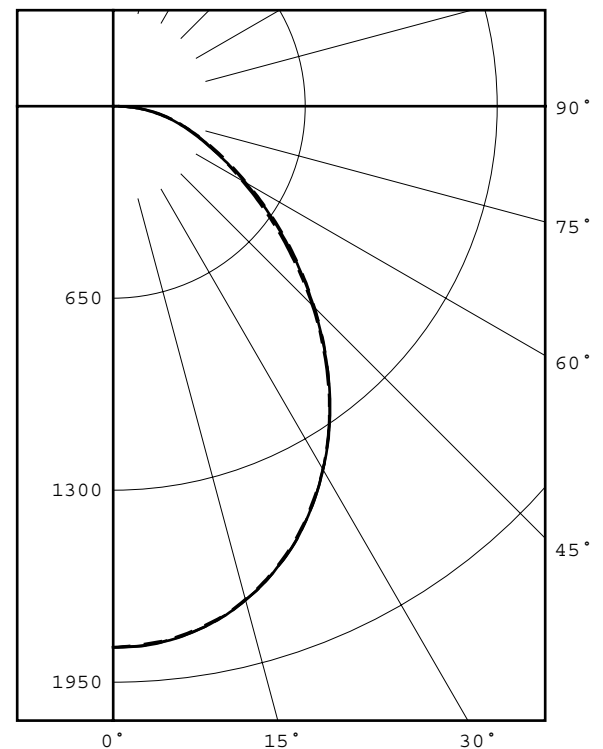
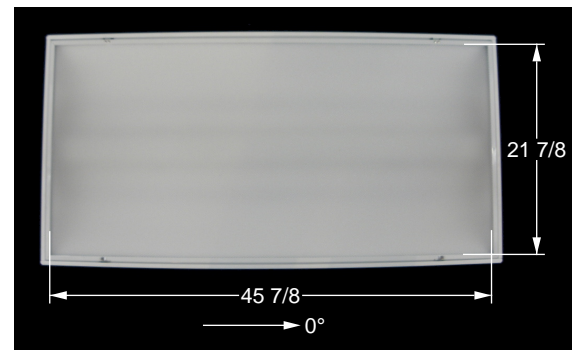
PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.16 1.16

LUMINOUS LENGTH : 45.875 21.875

LUMINANCE DATA IN CANDELA/SQ M

ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	45-DEG	90-DEG
45	2106.	2097.	2082.
55	1777.	1758.	1715.
65	1502.	1455.	1455.
75	1414.	1379.	1420.
85	1560.	1524.	1648.



LEGEND:

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

Checked B. HYRE

Approved R. BEATTIE
Lighting Engineer



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PAGE: 2 OF 5

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CANDELA DISTRIBUTION LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	1832	1832	1832	1832	1832
2.5	1826	1832	1831	1829	1830
5.0	1819	1826	1823	1821	1822
7.5	1805	1811	1809	1806	1808
10.0	1785	1792	1789	1787	1789
12.5	1761	1766	1764	1761	1763
15.0	1728	1735	1731	1729	1731
17.5	1690	1697	1694	1692	1694
20.0	1646	1653	1650	1649	1650
22.5	1597	1604	1603	1600	1602
25.0	1542	1548	1546	1544	1546
27.5	1482	1488	1486	1484	1486
30.0	1420	1422	1421	1421	1420
32.5	1351	1355	1353	1351	1350
35.0	1278	1282	1279	1276	1275
37.5	1201	1205	1202	1198	1197
40.0	1123	1125	1122	1120	1116
42.5	1044	1045	1041	1039	1035
45.0	964	966	960	957	953
47.5	886	886	880	876	870
50.0	808	808	802	795	789
52.5	734	732	726	718	712
55.0	660	659	653	643	637
57.5	590	590	583	572	568
60.0	525	523	517	507	503
62.5	465	462	455	448	449
65.0	411	406	398	395	398
67.5	362	357	349	349	353
70.0	317	311	306	307	312
72.5	275	272	267	268	274
75.0	237	234	231	232	238
77.5	201	196	195	196	202
80.0	164	158	158	161	167
82.5	127	120	122	125	131
85.0	88	83	86	88	93
87.5	43	42	45	47	48
90.0	0	0	0	0	0



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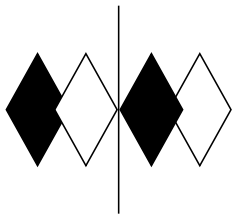
PAGE: 3 OF 5

5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	44
5- 10	129
10- 15	209
15- 20	279
20- 25	335
25- 30	375
30- 35	398
35- 40	400
40- 45	385
45- 50	355
50- 55	315
55- 60	269
60- 65	222
65- 70	179
70- 75	142
75- 80	105
80- 85	67
85- 90	24

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	173
0- 20	660
0- 30	1371
0- 40	2169
0- 50	2909
0- 60	3493
0- 70	3895
0- 80	4142
0- 90	4233



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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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