

REPORT NUMBER: ITL82334

PAGE: 1 OF 5

ISSUE DATE: 07/29/14

PREPARED FOR: RAB LIGHTING, INC.

CATALOG NUMBER: TRLED2X4-50YN/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 = 51.4 AT 120.0 VOLTS

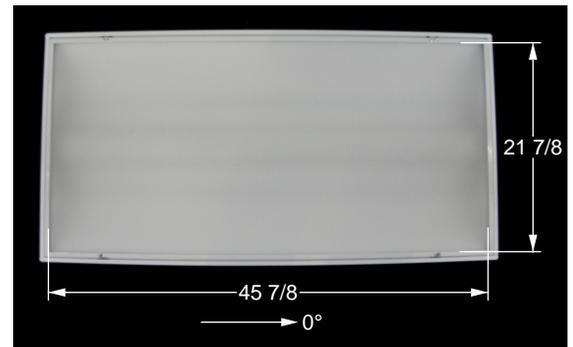
MOUNTING: RECESSED

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	FLUX
0	1907	1907	1907	1907	1907	180
5	1892	1900	1897	1895	1896	508
15	1803	1808	1805	1805	1803	743
25	1614	1619	1618	1616	1612	837
35	1339	1344	1341	1339	1338	781
45	1015	1019	1015	1006	1002	613
55	694	693	686	674	673	416
65	428	421	412	408	412	256
75	248	242	238	241	247	97
85	93	88	93	94	100	
90	0	0	0	0	0	

FLUX

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	1431	32.3
0- 40	2269	51.2
0- 60	3663	82.6
0- 90	4432	100.0
90-180	0	0.0
0-180	4432	100.0

EFFICACY = 86.2 lm/W

CIE TYPE - DIRECT

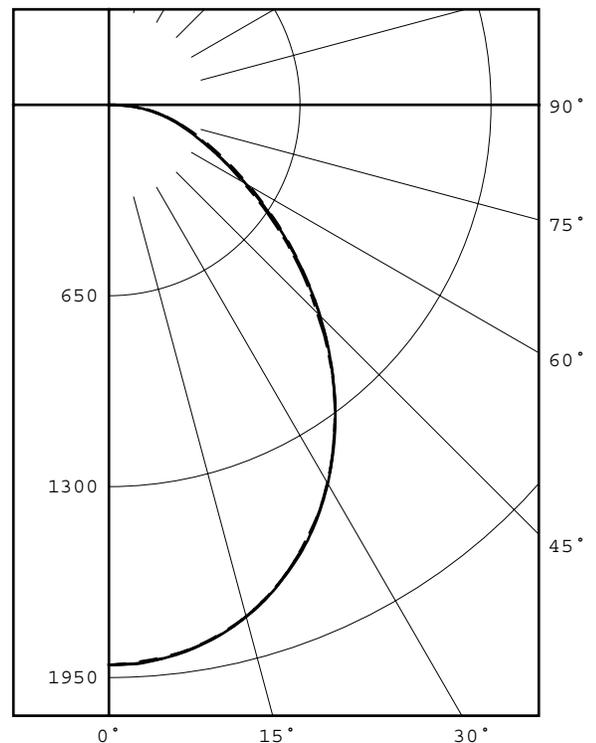
PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.17 1.17

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	2217.	2217.	2189.
55	1869.	1847.	1812.
65	1564.	1506.	1506.
75	1480.	1420.	1474.
85	1648.	1648.	1772.



LEGEND:

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

Checked B. HYRE

Approved R. BEATTIE  
Lighting Engineer



INDEPENDENT TESTING LABORATORIES, INC.  
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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	1907	1907	1907	1907	1907
2.5	1901	1907	1906	1903	1905
5.0	1892	1900	1897	1895	1896
7.5	1880	1886	1883	1882	1881
10.0	1860	1866	1863	1861	1862
12.5	1834	1841	1837	1836	1836
15.0	1803	1808	1805	1805	1803
17.5	1764	1770	1767	1767	1764
20.0	1720	1725	1722	1722	1720
22.5	1669	1674	1673	1672	1668
25.0	1614	1619	1618	1616	1612
27.5	1553	1558	1556	1554	1554
30.0	1486	1491	1489	1487	1486
32.5	1415	1420	1417	1416	1415
35.0	1339	1344	1341	1339	1338
37.5	1261	1265	1263	1260	1262
40.0	1181	1186	1181	1177	1178
42.5	1098	1102	1099	1092	1092
45.0	1015	1019	1015	1006	1002
47.5	932	935	931	921	921
50.0	851	852	847	837	837
52.5	771	772	765	754	754
55.0	694	693	686	674	673
57.5	619	617	610	596	598
60.0	550	547	539	527	527
62.5	486	481	473	464	467
65.0	428	421	412	408	412
67.5	377	370	359	361	365
70.0	330	324	314	319	323
72.5	288	281	275	279	284
75.0	248	242	238	241	247
77.5	209	203	202	205	211
80.0	171	166	166	168	174
82.5	132	126	130	131	139
85.0	93	88	93	94	100
87.5	46	45	50	50	53
90.0	0	0	0	0	0



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PAGE: 3 OF 5

5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	45
5- 10	134
10- 15	218
15- 20	291
20- 25	350
25- 30	393
30- 35	417
35- 40	421
40- 45	406
45- 50	375
50- 55	332
55- 60	282
60- 65	231
65- 70	186
70- 75	147
75- 80	110
80- 85	71
85- 90	26

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	180
0- 20	688
0- 30	1431
0- 40	2269
0- 50	3049
0- 60	3663
0- 70	4079
0- 80	4336
0- 90	4432



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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	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	85	87	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72	72	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	68	64	62	62	64	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	53	53	56	56	53
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47	47	49	49	47
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41	41	43	43	41
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37	37	39	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33	33	35	35	33
9	59	46	38	32	57	45	38	32	44	37	32	43	37	32	42	36	32	30	30	32	32	30
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	27	27	29	29	27

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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