

REPORT NUMBER: PRORATED FROM RAB02055

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ISSUE DATE: 06/15/16

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: RDLED2AR8-20YHC-TW

LUMINAIRE: FABRICATED METAL UPPER HOUSING AND BALLAST HOUSING, CAST BLACK PAINTED FINNED METAL HEAT SINK, CAST WHITE PAINTED METAL GIMBAL, 1 WHITE CIRCUIT BOARD WITH ONE LED, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH, HOLOGRAPHIC FLAT PLASTIC LENS, CAST WHITE METAL LOWER HOUSING.

LAMP: ONE WHITE MULTI-CHIP LIGHT EMITTING DIODE (LED) WITH CLEAR HEMISPHERICAL INTEGRAL LENS, VERTICAL BASE-UP POSITION.

\*(SEE PAGE 2 FOR MORE INFORMATION)\*

DEG	CANDELA	LUMENS
0	2480	
5	2121	174
15	666	194
25	254	119
35	107	68
45	25	22
55	10	10
65	5	6
75	3	4
85	1	1
90	0	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	487	81.6
0- 40	555	92.9
0- 60	586	98.2
0- 90	597	100.0
90-180	0	0.0
0-180	597	100.0

TOTAL INPUT WATTS = 8.094

EFFICACY = 73.8 Lm/W

CIE TYPE - DIRECT

LUMINAIRE SPACING CRITERION = 0.3

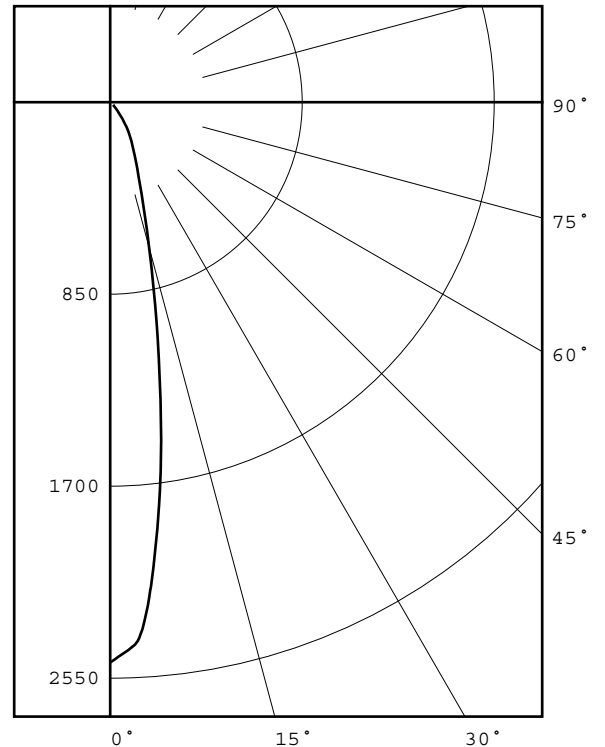
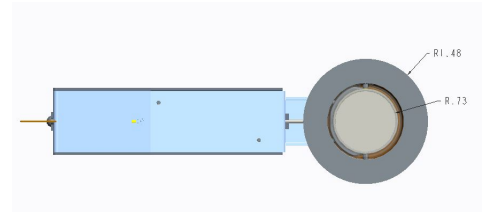
LUMINOUS DIAMETER: 0.950

LUMINANCE DATA IN CANDELA/SQ METER

ANGLE AVERAGE

IN DEG

45	77739.
55	39932.
65	27098.
75	26548.
85	26280.



Checked	<u>X.CAO</u>
Approved	<u>D.WANG-MUNSON</u>

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## ADDITIONAL INFORMATION

NOTE: THIS REPORT WAS PRORATED FROM RAB02055 WHICH WAS  
RDLED2AR8-20YYHC-TW. ACTUAL PERFORMANCE MAY VARY.

TOTAL INPUT WATTS: 8.094 W AT 120.0 VOLTS

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE: 28.25 FEET

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LED DRIVER: RD-008-E1-A0200

NOTE: THIS REPORT WITH THE USE OF THE NVLAP LOGO SHALL NOT BE USED BY  
THE CLIENT TO CLAIM PRODUCT CERTIFICATION, APPROVAL, OR  
ENDORSEMENT BY NVLAP, NIST, OR ANY AGENCY OF THE FEDERAL  
GOVERNMENT.

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BEAM ANGLE (50%) : 20.4 DEGREES  
FIELD ANGLE (10%): 50.7 DEGREES

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### CANDELA DISTRIBUTION

	0.0
0.0	2480
2.5	2410
5.0	2121
7.5	1697
10.0	1270
12.5	921
15.0	666
17.5	498
20.0	385
22.5	307
25.0	254
27.5	213
30.0	178
32.5	142
35.0	107
37.5	76
40.0	51
42.5	36
45.0	25
47.5	19
50.0	16
52.5	13
55.0	10
57.5	9
60.0	8
62.5	6
65.0	5
67.5	5
70.0	4
72.5	4
75.0	3
77.5	3
80.0	2
82.5	2
85.0	1
87.5	1
90.0	0

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## ZONAL LUMEN SUMMARY

0- 5	55.
5- 10	119.
10- 15	110.
15- 20	84.
20- 25	65.
25- 30	54.
30- 35	42.
35- 40	26.
40- 45	14.
45- 50	8.
50- 55	6.
55- 60	4.
60- 65	3.
65- 70	3.
70- 75	2.
75- 80	2.
80- 85	1.
85- 90	0.

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### 5-DEGREE ZONAL LUMEN SUMMARY

0- 5	55
5- 10	119
10- 15	110
15- 20	84
20- 25	65
25- 30	54
30- 35	42
35- 40	26
40- 45	14
45- 50	8
50- 55	6
55- 60	4
60- 65	3
65- 70	3
70- 75	2
75- 80	2
80- 85	1
85- 90	0
90- 95	0
95-100	0
100-105	0
105-110	0
110-115	0
115-120	0
120-125	0
125-130	0
130-135	0
135-140	0
140-145	0
145-150	0
150-155	0
155-160	0
160-165	0
165-170	0
170-175	0
175-180	0

### 10-DEGREE ZONAL LUMEN SUMMARY

0- 10	174
0- 20	368
0- 30	487
0- 40	555
0- 50	576
0- 60	586
0- 70	592
0- 80	596
0- 90	597
0-100	597
0-110	597
0-120	597
0-130	597
0-140	597
0-150	597
0-160	597
0-170	597
0-180	597

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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	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95
2	109	105	102	99	107	103	100	97	100	98	95	97	95	93	95	93	91	90
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85
4	101	94	90	86	99	93	89	86	91	87	85	89	86	84	87	85	83	81
5	97	90	85	81	95	89	84	81	87	83	80	86	82	80	84	81	79	78
6	93	86	81	77	92	85	80	77	84	80	77	82	79	76	81	78	76	74
7	90	82	77	74	89	82	77	74	80	76	73	79	76	73	78	75	73	71
8	87	79	74	71	86	79	74	71	78	73	70	77	73	70	76	72	70	69
9	84	76	71	68	83	76	71	68	75	71	68	74	70	67	73	70	67	66
10	81	73	69	65	80	73	68	65	72	68	65	72	68	65	71	67	65	64

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 LUMINAIRE SAMPLE.

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### CONE OF LIGHT DIAGRAM

(diameter shown is where fc value is half the fc at nadir)

