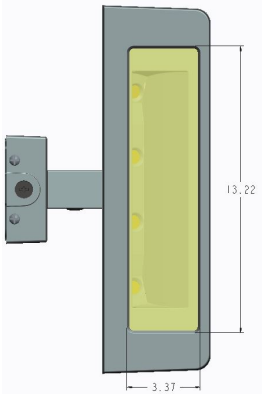


ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

Values based on 20 foot mounting height.



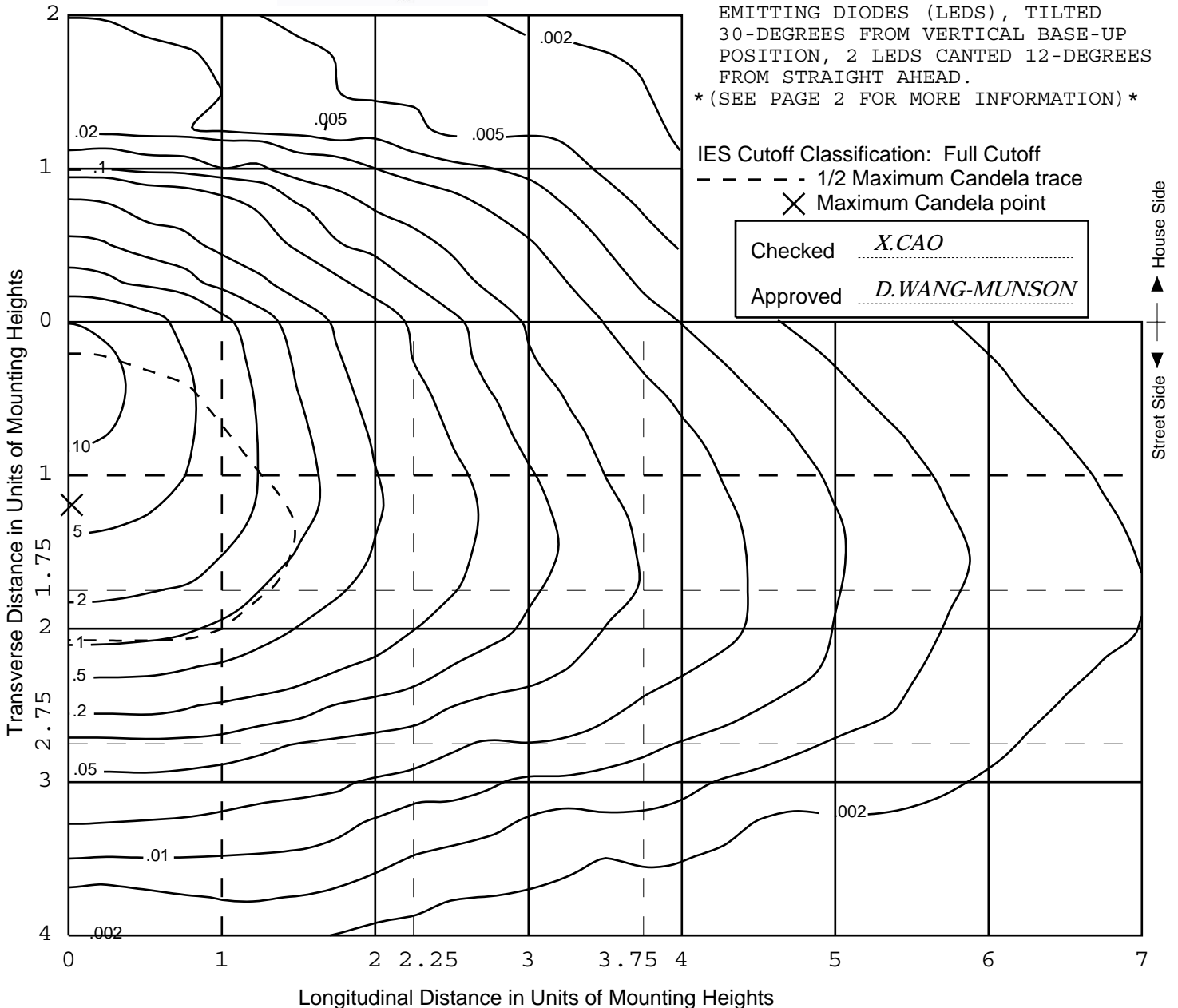
REPORT NUMBER: PRORATED FROM RAB01941
 ISSUE DATE: 06/08/16 PAGE: 1 OF 9
 DATE SAMPLE TESTED: 05/10/16
 PREPARED FOR: RAB LIGHTING INC.
 CATALOG NUMBER: WPLEDFC104N/480 /
 ALEDFC104N/480 (0-DEGREE UPTILT)
 LUMINAIRE: CAST FINNED METAL HOUSING,
 2-PIECE EXTRUDED METAL HEAT SINK, 4
 CIRCUIT BOARDS EACH WITH 1 LED,
 MOLDED PLASTIC REFLECTOR WITH
 SPECULAR FINISH AND 1 OPTICAL
 COMPARTMENT WITH 1 APERTURE PER LED,
 CLEAR FLAT GLASS LENS IN CAST BROWN
 PAINTED METAL FRAME.
 LAMPS: FOUR WHITE MULTI-CHIP LIGHT
 EMITTING DIODES (LEDs), TILTED
 30-DEGREES FROM VERTICAL BASE-UP
 POSITION, 2 LEDS CANTED 12-DEGREES
 FROM STRAIGHT AHEAD.
 (SEE PAGE 2 FOR MORE INFORMATION)

IES Cutoff Classification: Full Cutoff

--- 1/2 Maximum Candela trace

X Maximum Candela point

Checked X.CAO
 Approved D.WANG-MUNSON



REPORT NUMBER: PRORATED FROM RAB01941
ISSUE DATE: 06/08/16
PREPARED FOR: RAB LIGHTING INC.

PAGE: 2 OF 9
DATE SAMPLE TESTED: 05/10/16

ADDITIONAL INFORMATION

NOTE: THIS REPORT WAS PRORATED FROM RAB01941 WHICH WAS WPLEDFC104N.
ACTUAL PERFORMANCE MAY VARY.

TOTAL INPUT WATTS = 111.65 W AT 480.0 VAC.

LED DRIVER: RD-T150-A-700/480

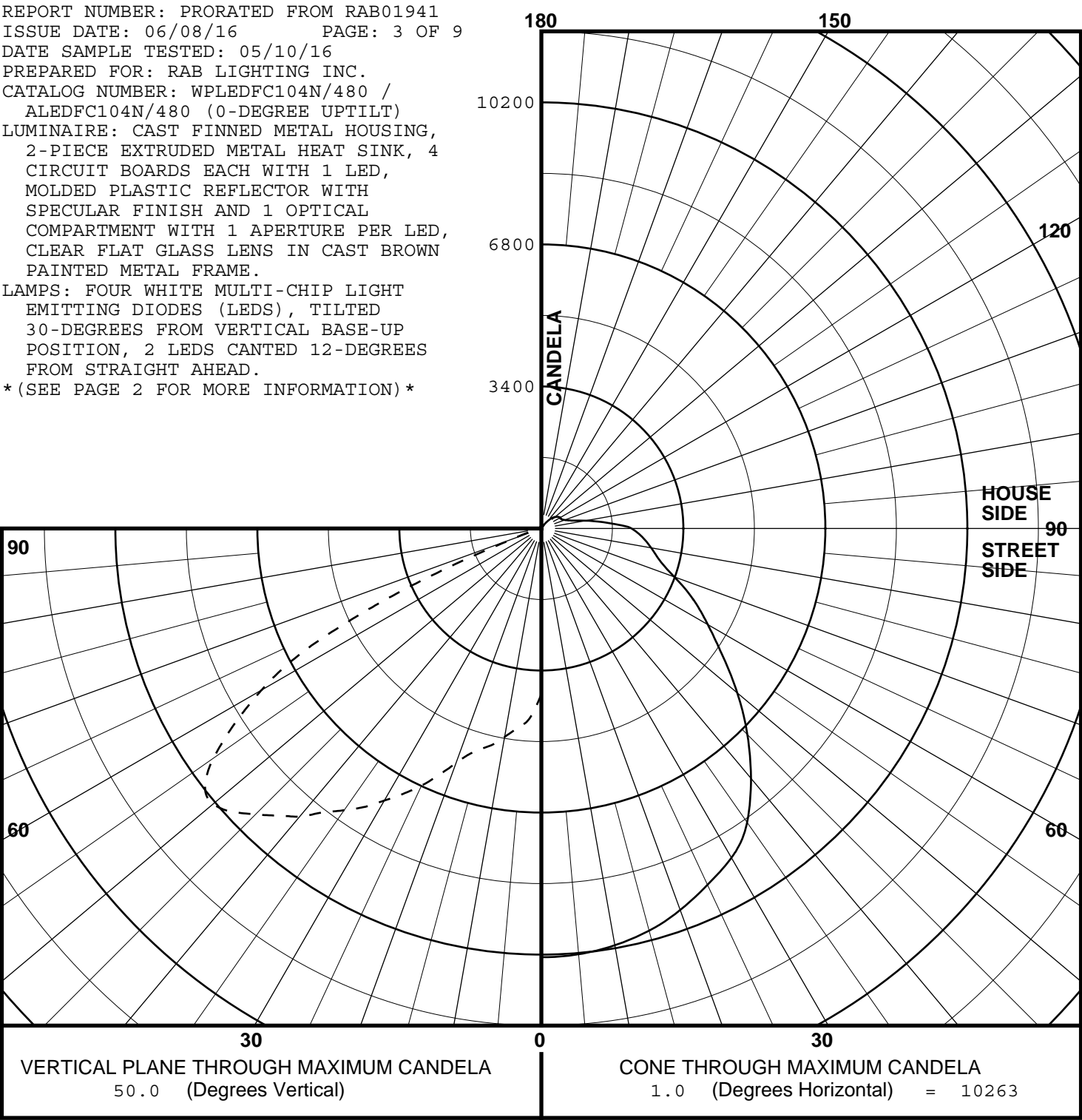
TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE : 28.25 FEET

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.

MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

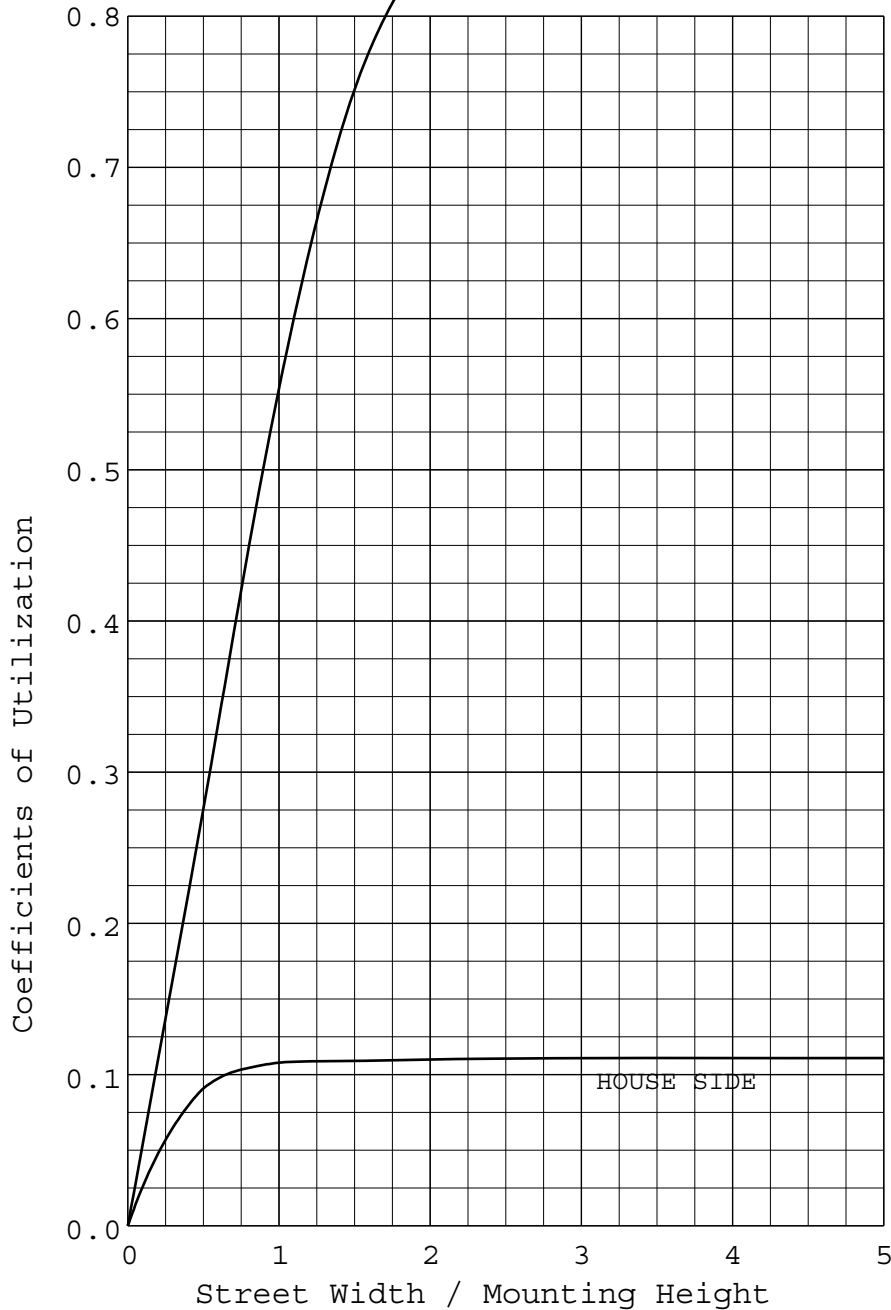
REPORT NUMBER: PRORATED FROM RAB01941
ISSUE DATE: 06/08/16 PAGE: 3 OF 9
DATE SAMPLE TESTED: 05/10/16
PREPARED FOR: RAB LIGHTING INC.
CATALOG NUMBER: WPLEDFC104N/480 /
ALEDFC104N/480 (0-DEGREE UPTILT)
LUMINAIRE: CAST FINNED METAL HOUSING,
2-PIECE EXTRUDED METAL HEAT SINK, 4
CIRCUIT BOARDS EACH WITH 1 LED,
MOLDED PLASTIC REFLECTOR WITH
SPECULAR FINISH AND 1 OPTICAL
COMPARTMENT WITH 1 APERTURE PER LED,
CLEAR FLAT GLASS LENS IN CAST BROWN
PAINTED METAL FRAME.
LAMPS: FOUR WHITE MULTI-CHIP LIGHT
EMITTING DIODES (LEDs), TILTED
30-DEGREES FROM VERTICAL BASE-UP
POSITION, 2 LEDS CANTED 12-DEGREES
FROM STRAIGHT AHEAD.
(SEE PAGE 2 FOR MORE INFORMATION)



REPORT NUMBER: PRORATED FROM RAB01941
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PAGE: 4 OF 9
 DATE SAMPLE TESTED: 05/10/16

COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	11805.	88.8
DOWNWARD HOUSE SIDE	1487.	11.2
DOWNWARD TOTAL	13292.	100.0
UPWARD STREET SIDE	0.	0.0
UPWARD HOUSE SIDE	0.	0.0
UPWARD TOTAL	0.	0.0
TOTAL FLUX	13292.	100.0

TOTAL INPUT WATTS = 111.65
 EFFICACY = 119.1 Lm/W

ALL CANDELA AND LUMENS 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.

REPORT NUMBER: PRORATED FROM RAB01941
 ISSUE DATE: 06/08/16
 PREPARED FOR: RAB LIGHTING INC.

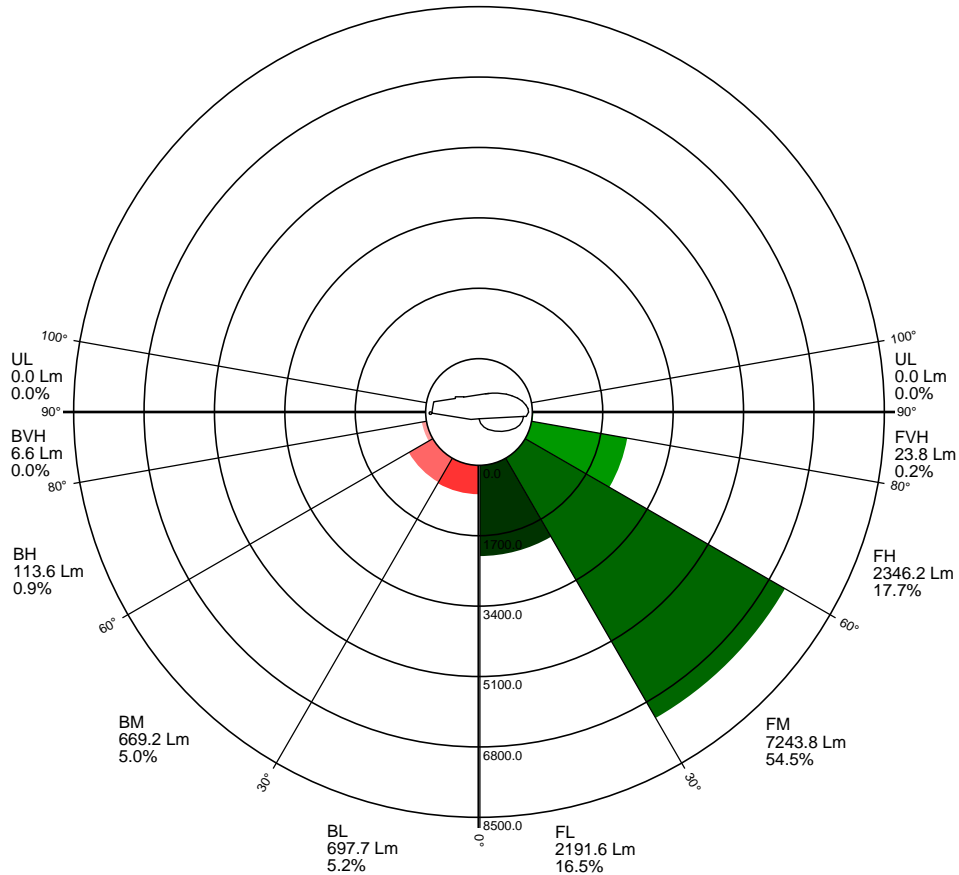
PAGE: 5 OF 9
 DATE SAMPLE TESTED: 05/10/16

BUG Rating:			Zone Ratings		
Zonal Summary			B	U	G
Forward		11805			
FL	(0° - 30°)	2191.6			
FM	(30° - 60°)	7243.8			
FH	(60° - 80°)	2346.2			G2
FVH	(80° - 90°)	23.8			G1
Backward		1487			
BL	(0° - 30°)	697.7	B2		
BM	(30° - 60°)	669.2	B1		
BH	(60° - 80°)	113.6	B1		G1
BVH	(80° - 90°)	6.6			G0
Upward		0			
UL	(90° - 100°)	0.0		U0	
UH	(100° - 180°)	0.0		U0	
Trapped Light		0			
Total Flux		13293			

Zonal Lumen Summary

(Linear scale)

UH
0.0 Lm
0.0%

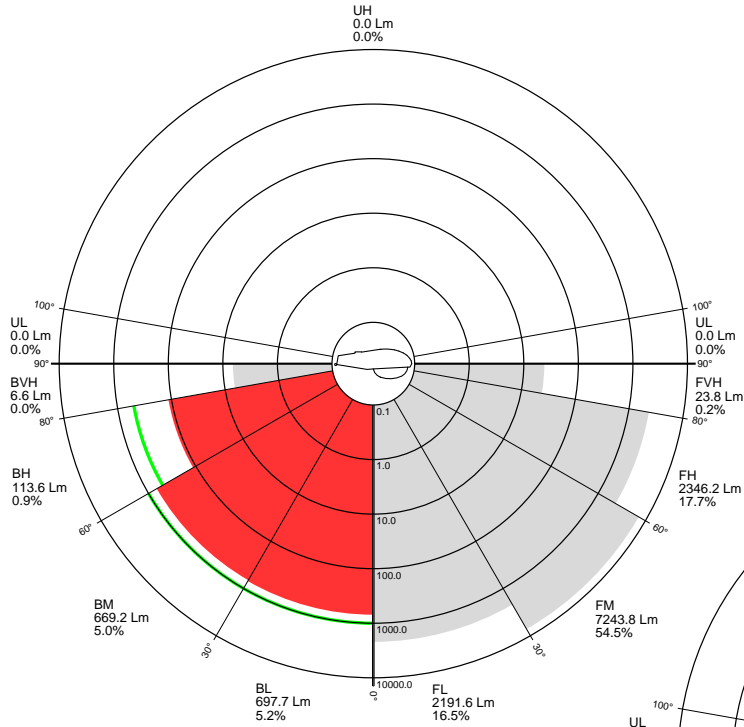


REPORT NUMBER: PRORATED FROM RAB01941
 ISSUE DATE: 06/08/16
 PREPARED FOR: RAB LIGHTING INC.

PAGE: 6 OF 9
 DATE SAMPLE TESTED: 05/10/16

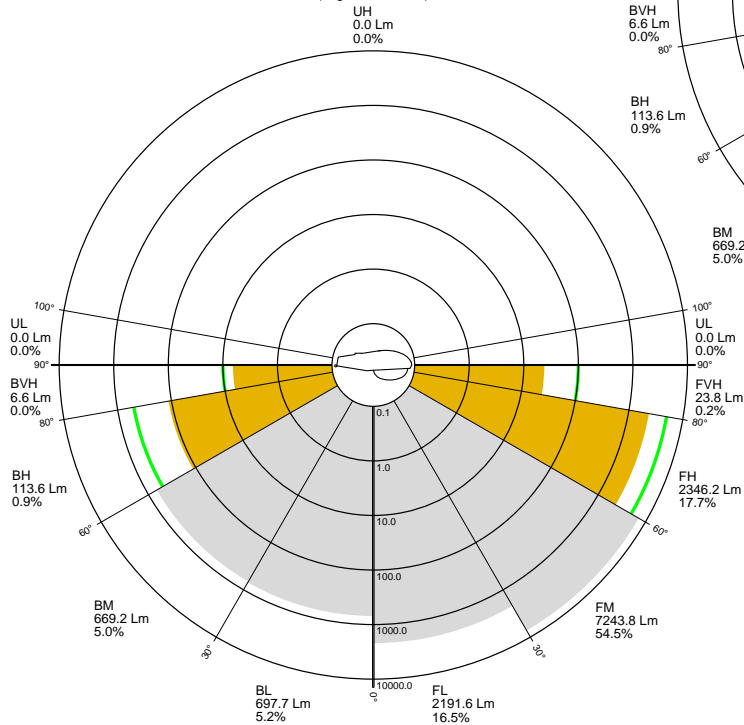
Backlight Rating Details

(Logarithmic scale)



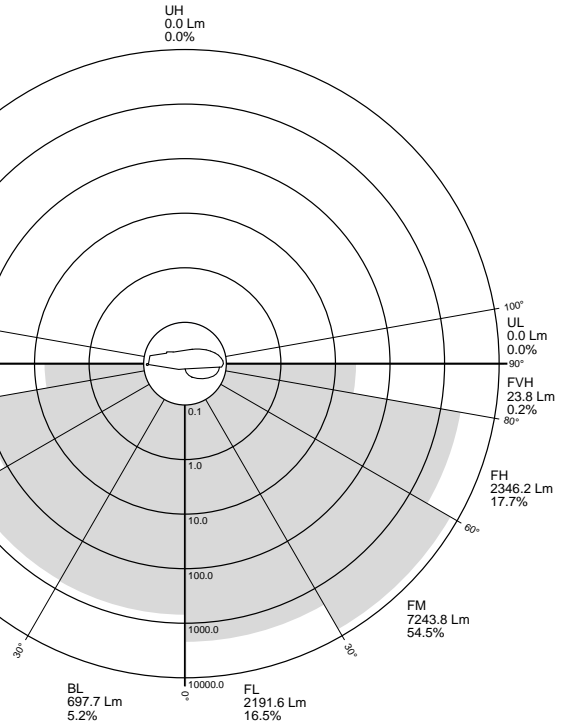
Glare Rating Details

(Logarithmic scale)



Uplight Rating Details

(Logarithmic scale)



REPORT NUMBER: PRORATED FROM RAB01941
 ISSUE DATE: 06/08/16
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PAGE: 7 OF 9
 DATE SAMPLE TESTED: 05/10/16

CANDELA TABULATION

STREET SIDE			LATERAL ANGLE								
	0.0	1.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0
	180.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	175.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	165.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	155.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	145.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	135.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	125.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	115.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	105.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	95.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	0.	0.	1.	3.	5.	6.	9.	11.	12.	14.
	85.0	4.	4.	4.	4.	7.	9.	11.	14.	17.	50.
V	82.5	12.	10.	11.	10.	12.	14.	18.	21.	76.	300.
E	80.0	24.	22.	21.	22.	18.	21.	32.	106.	532.	538.
R	77.5	28.	28.	30.	39.	35.	87.	153.	619.	1191.	758.
T	75.0	79.	56.	75.	160.	250.	259.	561.	1729.	1821.	954.
I	72.5	378.	376.	384.	398.	440.	857.	1982.	2585.	2250.	1186.
C	70.0	746.	740.	769.	1023.	1508.	2501.	3404.	3236.	2556.	1395.
A	67.5	2252.	2251.	2308.	2991.	3768.	4185.	4238.	3843.	2748.	1615.
L	65.0	4517.	4522.	4602.	5254.	5976.	5367.	4898.	4270.	2859.	1818.
	62.5	6526.	6525.	6589.	6877.	7475.	6403.	5589.	4451.	3007.	2034.
A	60.0	7736.	7735.	7763.	7878.	8472.	7502.	6033.	4495.	3139.	2225.
N	57.5	8717.	8718.	8726.	8808.	9216.	8316.	6354.	4550.	3280.	2366.
G	55.0	9581.	9585.	9534.	9576.	9508.	8741.	6569.	4718.	3469.	2517.
L	52.5	10150.	10150.	10103.	9931.	9531.	8795.	6798.	4969.	3711.	2687.
E	50.0	<10262.	10263.	10230.	9968.	9412.	8590.	6977.	5294.	4010.	2928.
	47.5	10039.	10042.	10041.	9744.	9148.	8294.	6997.	5580.	4321.	3195.
	45.0	9671.	9679.	9690.	9384.	8844.	7931.	6922.	5762.	4582.	3508.
	42.5	9312.	9322.	9326.	9071.	8536.	7574.	6755.	5834.	4751.	3802.
	40.0	8992.	9004.	8995.	8655.	8142.	7335.	6539.	5783.	4820.	4025.
	37.5	8550.	8563.	8536.	8242.	7837.	7156.	6336.	5621.	4782.	4157.
	35.0	8227.	8233.	8188.	7924.	7562.	6935.	6205.	5427.	4718.	4195.
	30.0	7521.	7523.	7510.	7301.	6981.	6490.	5873.	5205.	4706.	4250.
	25.0	6784.	6791.	6822.	6688.	6380.	5934.	5515.	5094.	4714.	4393.
	20.0	5968.	5975.	6006.	5909.	5743.	5492.	5273.	4981.	4680.	4416.
	15.0	5450.	5453.	5468.	5431.	5353.	5242.	5052.	4848.	4668.	4417.
	10.0	5063.	5067.	5065.	5030.	4966.	4909.	4805.	4704.	4573.	4369.
	5.0	4706.	4696.	4671.	4644.	4599.	4580.	4493.	4425.	4311.	4184.
	0.0	3961.	3961.	3961.	3961.	3961.	3961.	3961.	3961.	3961.	3961.

||
 PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA

REPORT NUMBER: PRORATED FROM RAB01941
 ISSUE DATE: 06/08/16
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PAGE: 8 OF 9
 DATE SAMPLE TESTED: 05/10/16

CANDELA TABULATION

CANDELA TABULATION		LATERAL ANGLE										
HOUSE SIDE		90.0	95.0	105.0	115.0	125.0	135.0	145.0	155.0	165.0	175.0	180.0
	180.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	175.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	165.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	155.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	145.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	135.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	125.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	115.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	105.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	95.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	15.	15.	14.	13.	12.	10.	8.	6.	4.	3.	3.
	85.0	21.	19.	19.	13.	12.	10.	8.	7.	5.	4.	4.
V	82.5	87.	35.	23.	20.	13.	10.	8.	7.	5.	5.	4.
E	80.0	166.	70.	34.	35.	16.	11.	9.	7.	5.	4.	4.
R	77.5	220.	104.	36.	54.	23.	13.	10.	8.	6.	7.	6.
T	75.0	308.	186.	86.	60.	29.	19.	13.	12.	10.	11.	11.
I	72.5	484.	329.	166.	41.	43.	23.	20.	20.	16.	18.	17.
C	70.0	727.	436.	227.	41.	43.	34.	23.	24.	24.	28.	27.
A	67.5	937.	590.	308.	82.	29.	37.	33.	28.	26.	30.	30.
L	65.0	1141.	689.	340.	165.	20.	35.	41.	40.	33.	36.	35.
	62.5	1324.	838.	367.	245.	36.	25.	41.	43.	43.	49.	48.
A	60.0	1490.	955.	404.	315.	99.	18.	30.	40.	43.	52.	51.
N	57.5	1600.	1033.	483.	408.	250.	33.	19.	30.	36.	46.	47.
G	55.0	1764.	1213.	604.	473.	388.	91.	24.	20.	26.	34.	35.
L	52.5	1974.	1402.	677.	501.	450.	227.	42.	20.	17.	22.	22.
E	50.0<<	2163.	1572.	739.	532.	486.	348.	111.	37.	26.	23.	21.
	47.5	2410.	1749.	784.	573.	520.	408.	227.	96.	48.	37.	35.
	45.0	2632.	1926.	856.	625.	545.	431.	325.	214.	147.	107.	95.
	42.5	2874.	2127.	942.	680.	569.	451.	366.	333.	298.	253.	240.
	40.0	3074.	2346.	1088.	734.	603.	473.	390.	405.	427.	398.	389.
	37.5	3203.	2498.	1270.	792.	636.	496.	424.	456.	473.	467.	464.
	35.0	3301.	2633.	1462.	873.	660.	521.	465.	510.	508.	496.	491.
	30.0	3480.	2938.	1843.	1044.	705.	600.	594.	607.	584.	569.	564.
	25.0	3643.	3174.	2140.	1297.	899.	744.	742.	718.	688.	674.	667.
	20.0	3652.	3266.	2440.	1784.	1292.	1064.	936.	836.	799.	787.	782.
	15.0	3792.	3511.	2924.	2367.	1926.	1577.	1295.	1176.	1101.	1074.	1067.
	10.0	3913.	3726.	3325.	2926.	2591.	2337.	2108.	1947.	1809.	1795.	1750.
	5.0	3944.	3851.	3666.	3483.	3315.	3187.	3048.	2952.	2886.	2839.	2859.
	0.0	3961.	3961.	3961.	3961.	3961.	3961.	3961.	3961.	3961.	3961.	3961.

CONE OF MAXIMUM CANDELA

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PAGE: 9 OF 9
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5-DEGREE ZONAL LUMEN SUMMARY

0- 5	93
5- 10	266
10- 15	416
15- 20	553
20- 25	701
25- 30	861
30- 35	1021
35- 40	1185
40- 45	1336
45- 50	1447
50- 55	1496
55- 60	1428
60- 65	1216
65- 70	784
70- 75	345
75- 80	115
80- 85	26
85- 90	4
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	359
0- 20	1328
0- 30	2889
0- 40	5095
0- 50	7878
0- 60	10802
0- 70	12802
0- 80	13262
0- 90	13292
0-100	13292
0-110	13292
0-120	13292
0-130	13292
0-140	13292
0-150	13292
0-160	13292
0-170	13292
0-180	13292