

REPORT NUMBER: PRORATED FROM RAB04284

PAGE: 1 OF 10

ISSUE DATE: 05/8/18

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: ALED4T78Y - RWLED4T78Y - RWLED4T78SFY - WPLED4T78Y (TYPE IV)

LUMINAIRE: CAST FINNED METAL HOUSING, 6 CIRCUIT BOARDS EACH WITH 1 LED, MOLDED 2-PIECE PLASTIC REFLECTOR WITH SPECULAR FINISH AND 1 APERTURE PER LED, CLEAR FLAT GLASS LENS IN CAST BROWN PAINTED METAL LENS FRAME.

LAMPS: SIX WHITE MULTI-CHIP LIGHT EMITTING DIODES (LEDs), 2 LEDs TILTED 56-DEGREES FROM VERTICAL BASE-UP POSITION AND CANTED 18-DEGREES FROM STRAIGHT AHEAD, 2 LEDs TILTED 57-DEGREES FROM VERTICAL BASE-UP POSITION AND CANTED 16-DEGREES FROM STRAIGHT AHEAD, 2 LEDs TILTED 57-DEGREES FROM VERTICAL BASE-UP POSITION AND CANTED 22-DEGREES FROM STRAIGHT AHEAD.

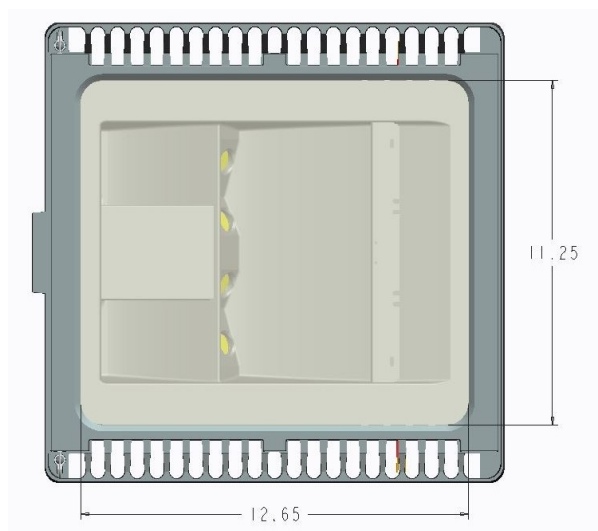
ABSOLUTE: NOTE: THIS REPORT WAS PRORATED FROM RAB04284 WHICH WAS ALED4T150Y. ACTUAL PERFORMANCE MAY VARY.

WATT: TOTAL INPUT WATTS = 75.2 W AT 120.0 VAC.

LED DRIVER: LED DRIVER: RDD-U85-A2100

PROCEDURE: TEST PROCEDURE: IESNA LM-79-08

NOTE: LM-80 DATA AVAILABLE FROM MANUFACTURER FOR SOLID STATE SOURCE



Checked X.CAO

Approved D.WANG-MUNSON

REPORT NUMBER: PRORATED FROM RAB04284

PAGE: 2 OF 10

ISSUE DATE: 05/8/18

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: ALED4T78Y - RWLED4T78Y - RWLED4T78SFY - WPLED4T78Y (TYPE IV)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

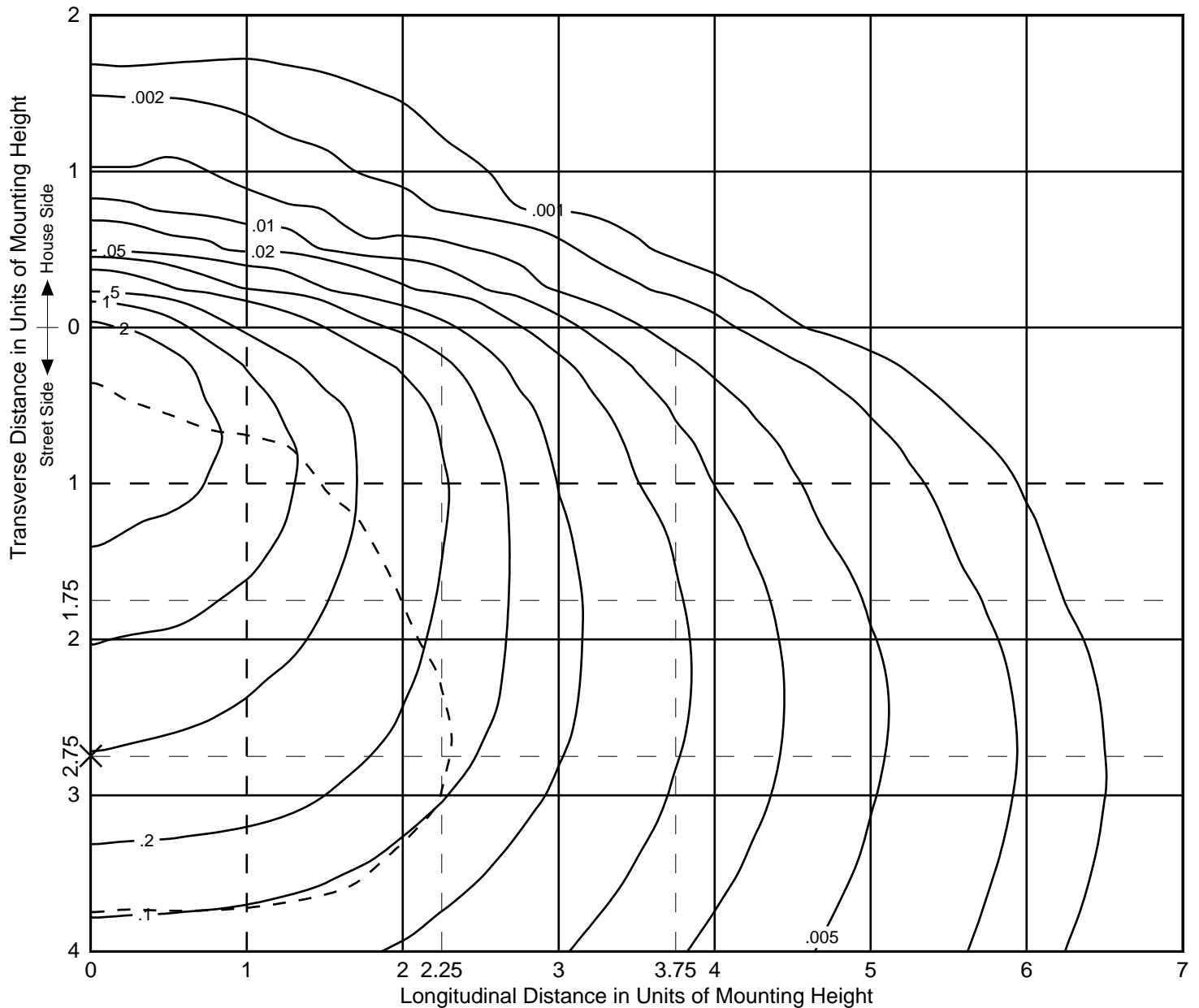
Values based on 25-foot mounting height

IES Classification: (does not classify)

Cutoff Classification (deprecated): Semicutoff

— — — — — 1/2 Maximum Candela trace

× Maximum Candela point



REPORT NUMBER: PRORATED FROM RAB04284

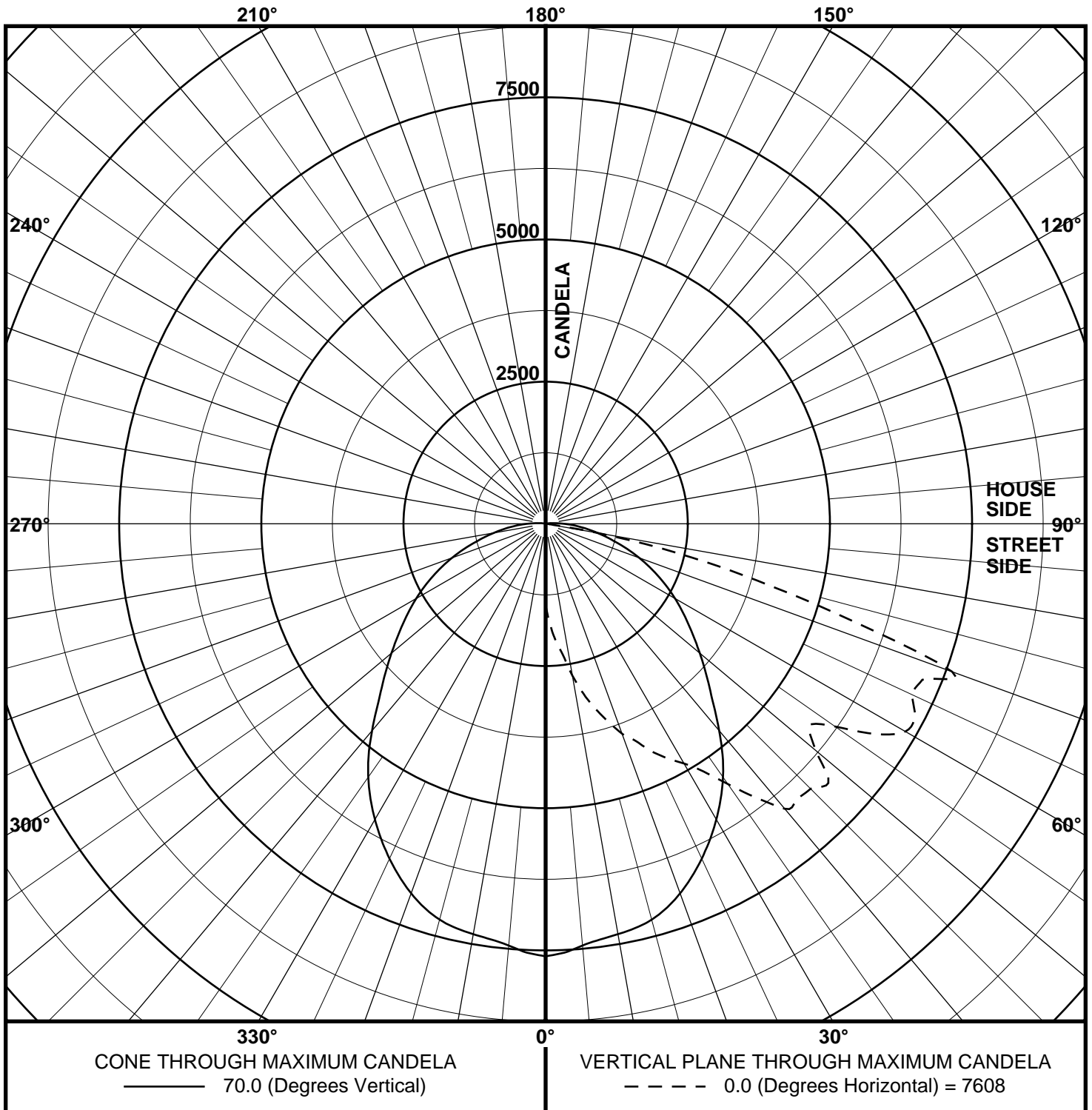
PAGE: 3 OF 10

ISSUE DATE: 05/8/18

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: ALED4T78Y - RWLED4T78Y - RWLED4T78SFY - WPLED4T78Y (TYPE IV)

MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA



REPORT NUMBER: PRORATED FROM RAB04284

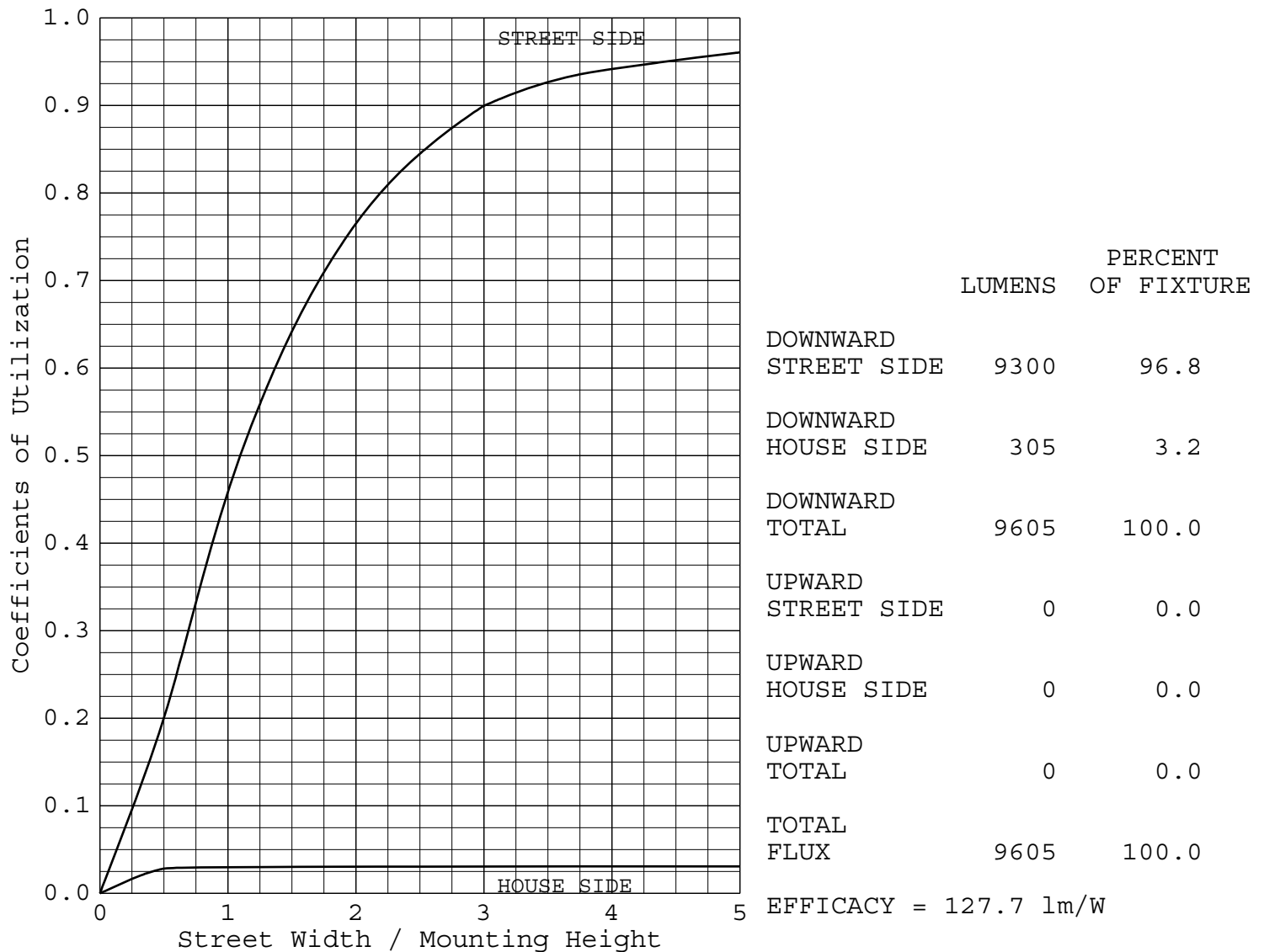
PAGE: 4 OF 10

ISSUE DATE: 05/8/18

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: ALED4T78Y - RWLED4T78Y - RWLED4T78SFY - WPLED4T78Y (TYPE IV)

COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



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 RAB04284

PAGE: 5 OF 10

ISSUE DATE: 05/8/18

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: ALED4T78Y - RWLED4T78Y - RWLED4T78SFY - WPLED4T78Y (TYPE IV)

BUG Rating			B1 U0 G2		
Zonal Summary			Zone Ratings		
			B	U	G
Forward					
FL	(0° – 30°)	9300			
FM	(30° – 60°)	1131.7			
FH	(60° – 80°)	4514.3			
FVH	(80° – 90°)	3561.2			G2
		92.7			G1
Backward					
BL	(0° – 30°)	305			
BM	(30° – 60°)	3.2	B1		
BH	(60° – 80°)	164.0	B0		
BVH	(80° – 90°)	109.4	B0		G0
		27.4			G0
		4.4			
Upward					
UL	(90° – 100°)	0		U0	
UH	(100° – 180°)	0.0		U0	
Trapped Light					
Total Flux					
		0			
		9605			
		100.0			

REPORT NUMBER: PRORATED FROM RAB04284

PAGE: 6 OF 10

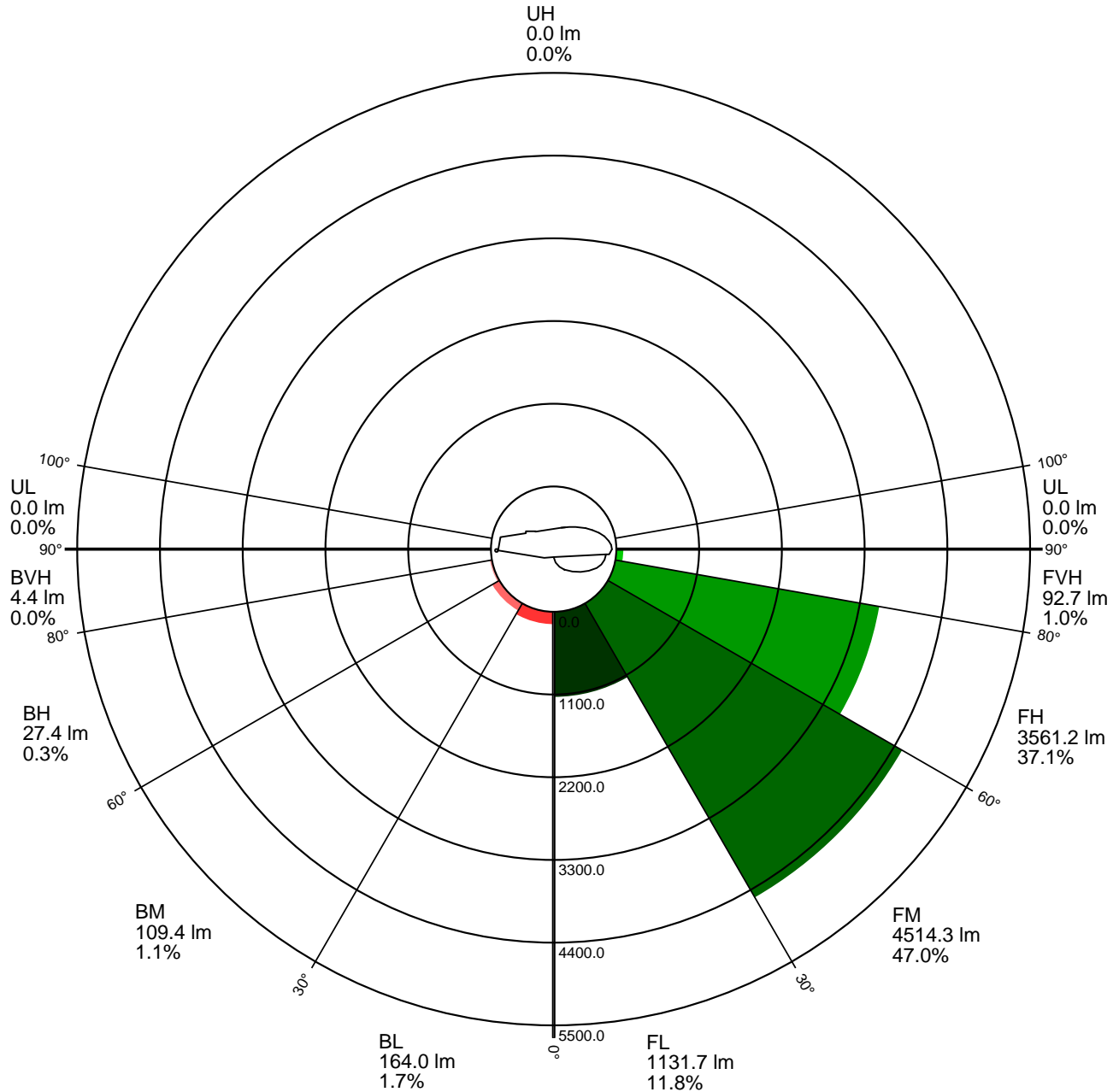
ISSUE DATE: 05/8/18

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: ALED4T78Y - RWLED4T78Y - RWLED4T78SFY - WPLED4T78Y (TYPE IV)

Zonal Lumen Summary

(Linear scale)



REPORT NUMBER: PRORATED FROM RAB04284

PAGE: 7 OF 10

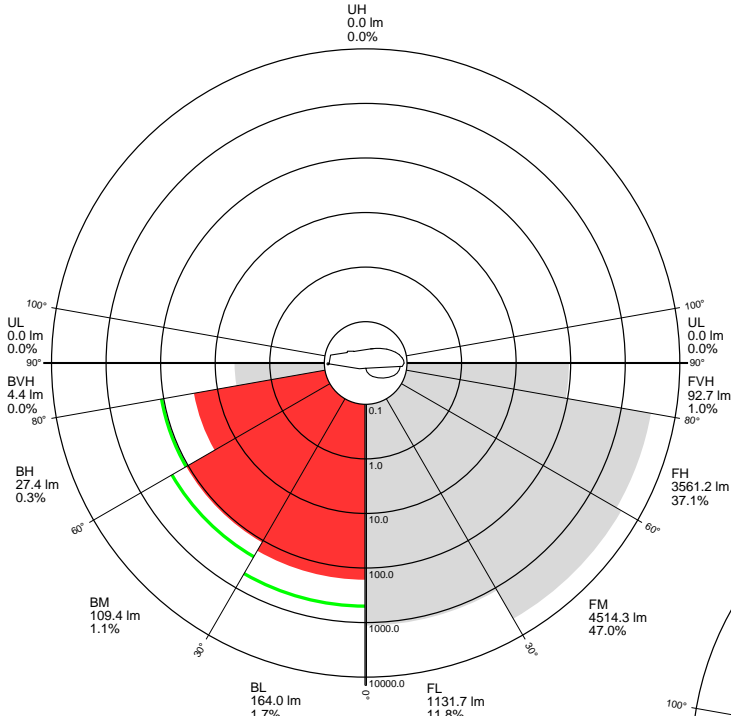
ISSUE DATE: 05/8/18

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: ALED4T78Y - RWLED4T78Y - RWLED4T78SFY - WPLED4T78Y (TYPE IV)

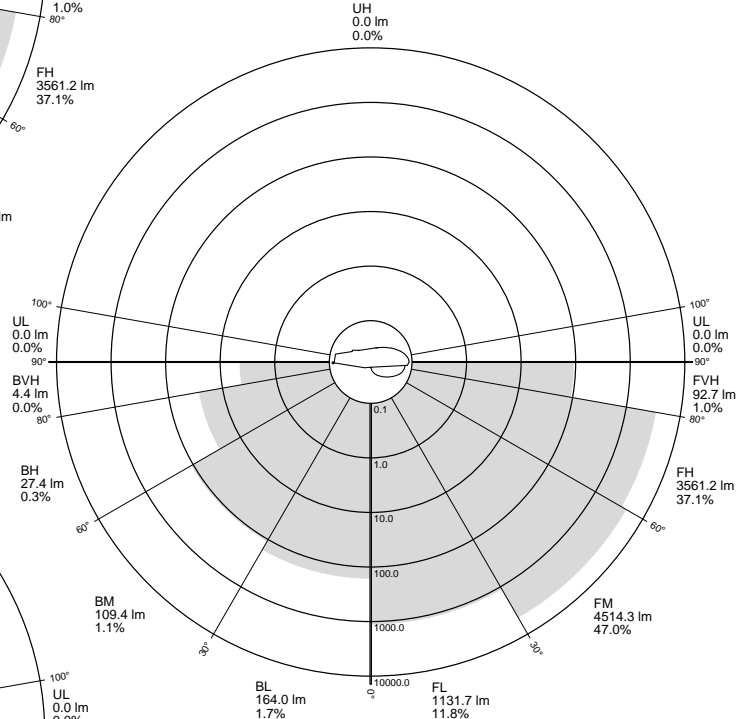
Backlight Rating Details

(Logarithmic scale)



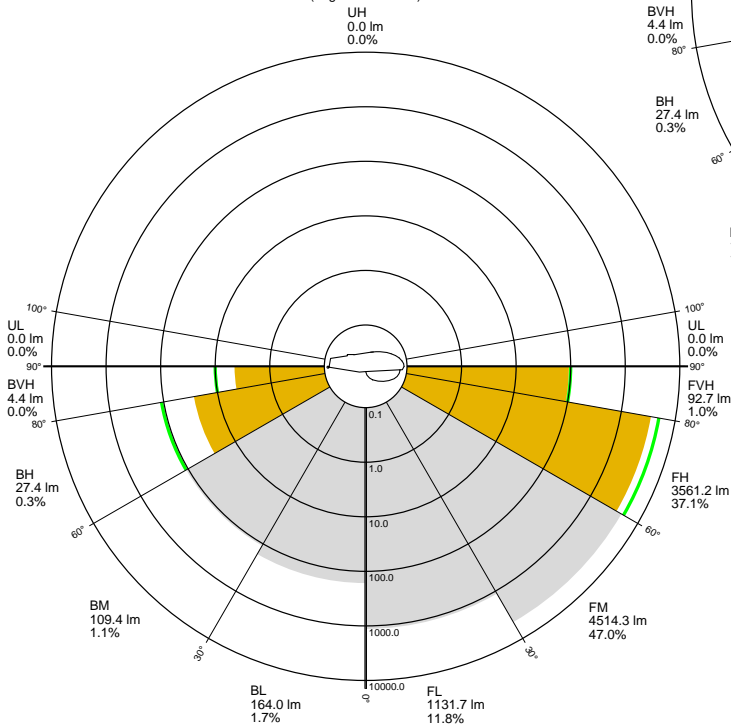
Uplight Rating Details

(Logarithmic scale)



Glare Rating Details

(Logarithmic scale)



REPORT NUMBER: PRORATED FROM RAB04284

PAGE: 8 OF 10

ISSUE DATE: 05/8/18

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: ALED4T78Y - RWLED4T78Y - RWLED4T78SFY - WPLED4T78Y (TYPE IV)

CANDELA TABULATION

	STREET	SIDE	LATERAL ANGLE									
		0.0	2.5	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.
	92.5		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	90.0		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5		11.	13.	15.	14.	15.	9.	11.	12.	12.	12.
	85.0		32.	32.	33.	63.	129.	85.	65.	41.	48.	21.
V	82.5		91.	97.	106.	180.	357.	356.	382.	242.	164.	61.
E	80.0		905.	927.	969.	1082.	1427.	1140.	993.	820.	586.	258.
R	77.5		2370.	2352.	2372.	2611.	2770.	2432.	1925.	1408.	868.	424.
T	75.0		3840.	3795.	3830.	4052.	4310.	3972.	3211.	1980.	1214.	588.
I	72.5		5612.	5562.	5528.	5909.	6157.	5096.	3779.	2529.	1551.	863.
C	70.0<<		7608.	7548.	7443.	7206.	6496.	5440.	4078.	3062.	2192.	1312.
A	67.5		7171.	7064.	6925.	6851.	6324.	5748.	4460.	3407.	2684.	1741.
L	65.0		7118.	6980.	6800.	6933.	6406.	5886.	4649.	3715.	2888.	2068.
	62.5		7318.	7153.	6872.	6925.	6456.	6042.	5036.	3667.	2955.	2243.
A	60.0		7307.	7106.	6759.	6650.	6297.	6026.	5277.	3945.	2921.	2222.
N	57.5		6879.	6712.	6316.	6113.	5867.	5328.	5183.	4331.	2933.	2078.
G	55.0		6218.	6059.	5777.	5634.	5299.	5092.	5227.	4377.	2960.	1976.
L	52.5		5849.	5755.	5549.	5307.	5272.	5077.	4927.	4056.	2853.	1883.
E	50.0		6204.	6120.	6011.	5819.	5559.	4932.	4733.	3793.	2769.	1882.
	47.5		6746.	6664.	6493.	5938.	5604.	5148.	4402.	3518.	2675.	1884.
	45.0		6592.	6543.	6423.	5887.	5690.	5036.	4006.	3264.	2590.	1848.
	42.5		6557.	6519.	6429.	6062.	5588.	4584.	3797.	3157.	2539.	1824.
	40.0		6539.	6492.	6409.	6028.	5127.	4308.	3694.	3158.	2525.	1770.
	37.5		6063.	5996.	5918.	5494.	4714.	4119.	3600.	3110.	2522.	1808.
	35.0		5588.	5517.	5417.	4967.	4449.	3927.	3537.	3046.	2445.	1829.
	32.5		5164.	5123.	5050.	4624.	4196.	3773.	3401.	2986.	2395.	1818.
	30.0		4867.	4836.	4781.	4341.	4030.	3634.	3253.	2854.	2375.	1820.
	25.0		4416.	4395.	4362.	3993.	3687.	3346.	3009.	2682.	2283.	1822.
	20.0		3927.	3905.	3891.	3692.	3389.	3118.	2830.	2499.	2120.	1782.
	15.0		3360.	3356.	3330.	3231.	3012.	2773.	2518.	2260.	1986.	1799.
	10.0		2707.	2705.	2695.	2622.	2485.	2330.	2164.	2038.	1892.	1711.
	5.0		2076.	2088.	2070.	2038.	2000.	1955.	1892.	1805.	1690.	1578.
	0.0		1432.	1432.	1432.	1432.	1432.	1432.	1432.	1432.	1432.	1432.

||
PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA

REPORT NUMBER: PRORATED FROM RAB04284

PAGE: 9 OF 10

ISSUE DATE: 05/8/18

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: ALED4T78Y - RWLED4T78Y - RWLED4T78SFY - WPLED4T78Y (TYPE IV)

CANDELA TABULATION

HOUSE SIDE		LATERAL ANGLE									
		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.
	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.
	92.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	12.	12.	12.	11.	11.	10.	9.	8.	7.	7. 6.
	85.0	13.	13.	12.	11.	10.	10.	9.	7.	6.	5. 5.
V	82.5	19.	15.	12.	11.	10.	9.	8.	7.	5.	4. 4.
E	80.0	41.	17.	14.	11.	10.	9.	8.	6.	4.	4. 4.
R	77.5	65.	27.	15.	12.	10.	9.	8.	6.	4.	3. 3.
T	75.0	132.	37.	15.	13.	10.	9.	7.	6.	4.	3. 3.
I	72.5	205.	60.	16.	13.	10.	9.	7.	6.	4.	3. 3.
C	70.0<<	324.	116.	18.	14.	10.	9.	7.	6.	4.	3. 3.
A	67.5	488.	145.	24.	14.	13.	9.	7.	6.	4.	3. 3.
L	65.0	588.	172.	31.	15.	12.	10.	7.	6.	4.	3. 3.
	62.5	613.	199.	36.	15.	12.	10.	8.	6.	4.	3. 4.
A	60.0	614.	244.	34.	24.	12.	10.	10.	7.	4.	3. 4.
N	57.5	711.	283.	48.	28.	12.	10.	9.	10.	7.	5. 5.
G	55.0	759.	335.	65.	27.	14.	11.	10.	10.	10.	9. 9.
L	52.5	744.	379.	95.	26.	17.	13.	12.	9.	9.	9. 10.
E	50.0	724.	378.	123.	29.	21.	13.	14.	14.	11.	10. 10.
	47.5	710.	387.	134.	37.	27.	15.	11.	13.	11.	10. 10.
	45.0	732.	429.	172.	46.	31.	16.	14.	9.	9.	9. 9.
	42.5	798.	486.	209.	49.	34.	24.	14.	10.	9.	9. 9.
	40.0	842.	531.	209.	66.	32.	31.	18.	14.	10.	10. 10.
	37.5	862.	585.	224.	103.	33.	31.	29.	20.	14.	12. 13.
	35.0	931.	636.	252.	154.	36.	30.	40.	33.	23.	19. 21.
	32.5	984.	670.	293.	186.	46.	35.	38.	41.	36.	32. 37.
	30.0	1048.	740.	357.	203.	86.	40.	37.	36.	37.	38. 44.
	25.0	1152.	866.	519.	289.	220.	96.	45.	36.	35.	36. 38.
	20.0	1185.	940.	648.	393.	279.	212.	155.	93.	65.	57. 59.
	15.0	1264.	1064.	838.	562.	396.	299.	262.	228.	213.	196. 201.
	10.0	1333.	1201.	971.	855.	675.	542.	478.	422.	400.	384. 396.
	5.0	1384.	1320.	1205.	1103.	1023.	956.	934.	901.	878.	843. 884.
	0.0	1432.	1432.	1432.	1432.	1432.	1432.	1432.	1432.	1432.	1432. 1432.

CONE OF MAXIMUM CANDELA

REPORT NUMBER: PRORATED FROM RAB04284

PAGE: 10 OF 10

ISSUE DATE: 05/8/18

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: ALED4T78Y - RWLED4T78Y - RWLED4T78SFY - WPLED4T78Y (TYPE IV)

5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	34
5- 10	101
10- 15	171
15- 20	247
20- 25	328
25- 30	414
30- 35	508
35- 40	623
40- 45	739
45- 50	834
50- 55	897
55- 60	1022
60- 65	1119
65- 70	1107
70- 75	910
75- 80	453
80- 85	90
85- 90	7
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	135
0- 20	553
0- 30	1296
0- 40	2427
0- 50	4001
0- 60	5919
0- 70	8145
0- 80	9508
0- 90	9605
0-100	9605
0-110	9605
0-120	9605
0-130	9605
0-140	9605
0-150	9605
0-160	9605
0-170	9605
0-180	9605