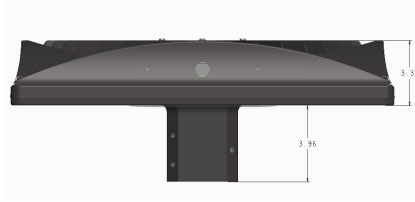


ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

Values based on 25 foot mounting height.



REPORT NUMBER: SCALED FROM RAB01406
 ISSUE DATE: 12/16/15 PAGE: 1 OF 9
 DATE SAMPLE TESTED: 12/15/15
 PREPARED FOR: RAB LIGHTING INC.
 CATALOG NUMBER: ALED5S78N/480/D10 (TYPE V Square)

LUMINAIRE: CAST FINNED METAL HOUSING, 4 WHITE CIRCUIT BOARD WITH 11 LEDS, MOLDED 1-PIECE PLASTIC REFLECTOR WITH SPECULAR FINISH, CLEAR POLYCARBONATE LENS IN CAST BRONZE PAINTED METAL FRAME.

LAMP: FORTY-FOUR WHITE LIGHT EMITTING DIODES (LEDs), TILTED 80-DEGREES FROM VERTICAL BASE-UP POSITION.

NOTE: THIS REPORT WAS PRORATED FROM RAB01406 WHICH WAS ALED5S78N/D10. ACTUAL PERFORMANCE MAY VARY.
 TOTAL INPUT WATTS: 76.505 W AT 480.0 VOLTS

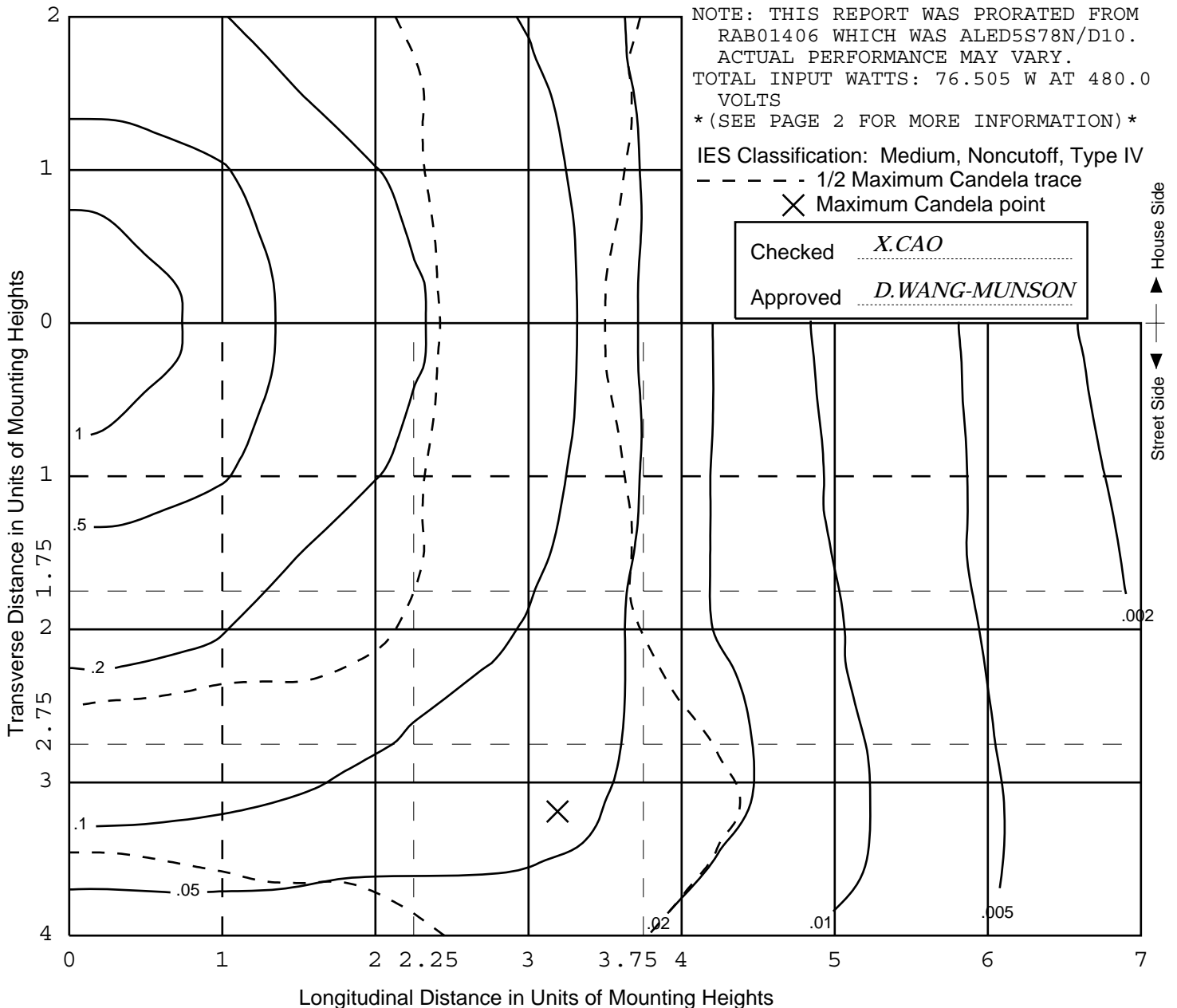
(SEE PAGE 2 FOR MORE INFORMATION)

IES Classification: Medium, Noncutoff, Type IV

--- 1/2 Maximum Candela trace

× Maximum Candela point

Checked X.CAO
 Approved D.WANG-MUNSON



REPORT NUMBER: SCALED FROM RAB01406
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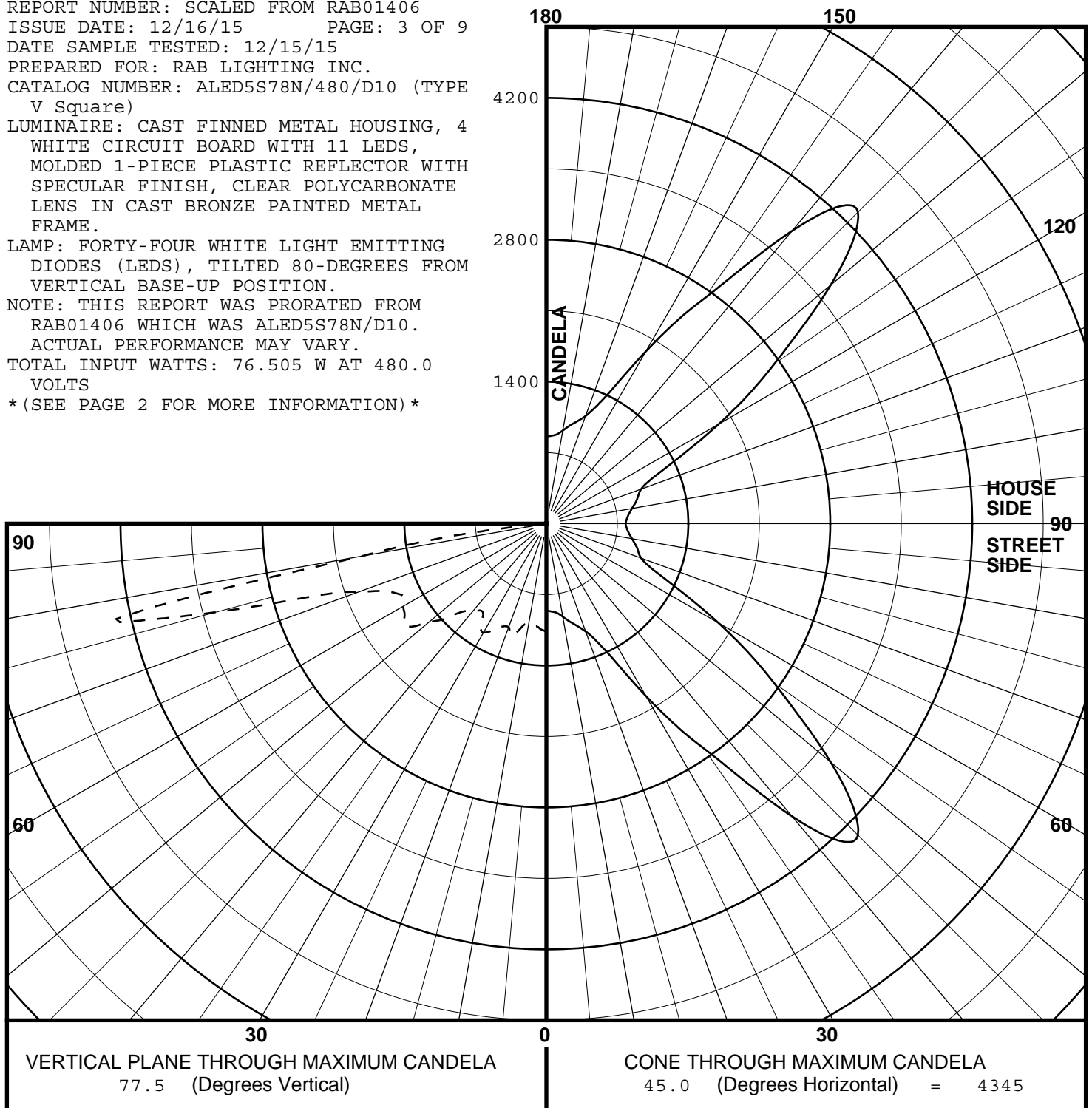
PAGE: 2 OF 9
DATE SAMPLE TESTED: 12/15/15

ADDITIONAL INFORMATION

TEST PROCEDURE: IESNA LM-79-08
TEST DISTANCE: 28.25 FEET
LED DRIVER: RDD-H100-A2000-480
ACCREDITED LABORATORY CODE 201085-0

MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

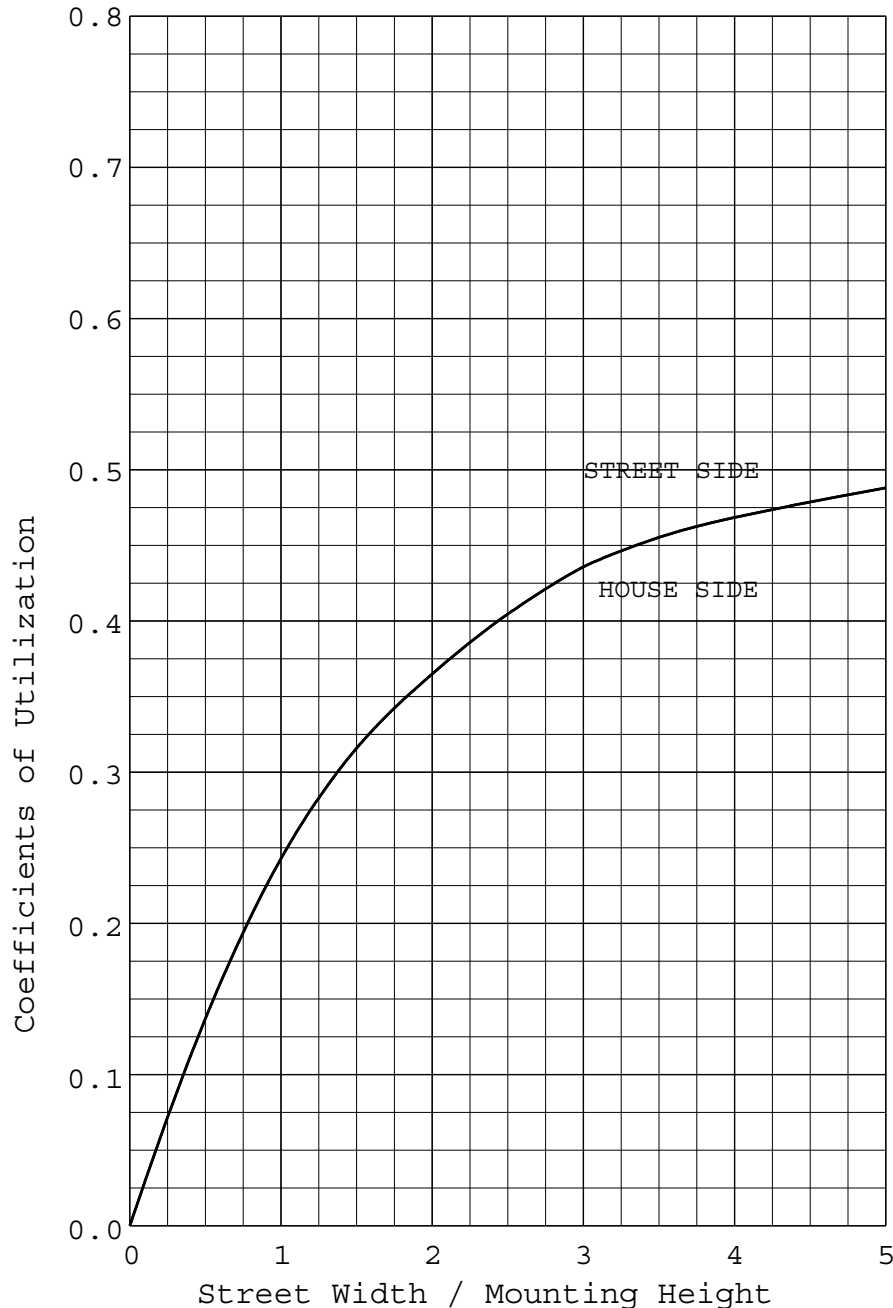
REPORT NUMBER: SCALED FROM RAB01406
 ISSUE DATE: 12/16/15 PAGE: 3 OF 9
 DATE SAMPLE TESTED: 12/15/15
 PREPARED FOR: RAB LIGHTING INC.
 CATALOG NUMBER: ALED5S78N/480/D10 (TYPE V Square)
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 LAMP: FORTY-FOUR WHITE LIGHT EMITTING DIODES (LEDS), TILTED 80-DEGREES FROM VERTICAL BASE-UP POSITION.
 NOTE: THIS REPORT WAS PRORATED FROM RAB01406 WHICH WAS ALED5S78N/D10. ACTUAL PERFORMANCE MAY VARY.
 TOTAL INPUT WATTS: 76.505 W AT 480.0 VOLTS
 (SEE PAGE 2 FOR MORE INFORMATION)



REPORT NUMBER: SCALED FROM RAB01406
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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	4348.	50.0
DOWNWARD HOUSE SIDE	4348.	50.0
DOWNWARD TOTAL	8696.	100.0
UPWARD STREET SIDE	0.	0.0
UPWARD HOUSE SIDE	0.	0.0
UPWARD TOTAL	0.	0.0
TOTAL FLUX	8696.	100.0
TOTAL INPUT WATTS = 76.505		
EFFICACY = 113.7 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: SCALED FROM RAB01406
 ISSUE DATE: 12/16/15
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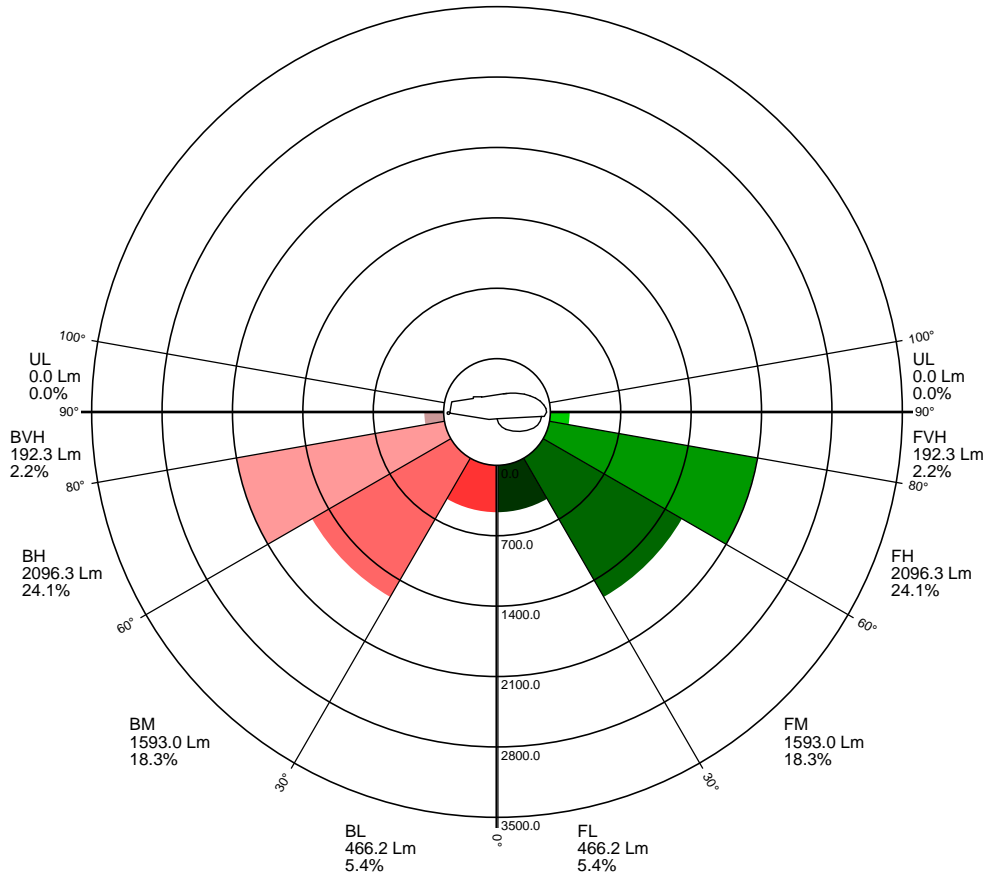
PAGE: 5 OF 9
 DATE SAMPLE TESTED: 12/15/15

BUG Rating:				B3 U0 G2		
Zonal Summary				Zone Ratings		
		Lumens	% of Fixture	B	U	G
Forward		4348	50.0			
FL	(0° - 30°)	466.2	5.4			
FM	(30° - 60°)	1593.0	18.3			
FH	(60° - 80°)	2096.3	24.1			G2
FVH	(80° - 90°)	192.3	2.2			G2
Backward		4348	50.0			
BL	(0° - 30°)	466.2	5.4	B1		
BM	(30° - 60°)	1593.0	18.3	B2		
BH	(60° - 80°)	2096.3	24.1	B3		G2
BVH	(80° - 90°)	192.3	2.2			G2
Upward		0	0.0			
UL	(90° - 100°)	0.0	0.0		U0	
UH	(100° - 180°)	0.0	0.0		U0	
Trapped Light		0	0.0			
Total Flux		8696	100.0			

Zonal Lumen Summary

(Linear scale)

UH
0.0 Lm
0.0%

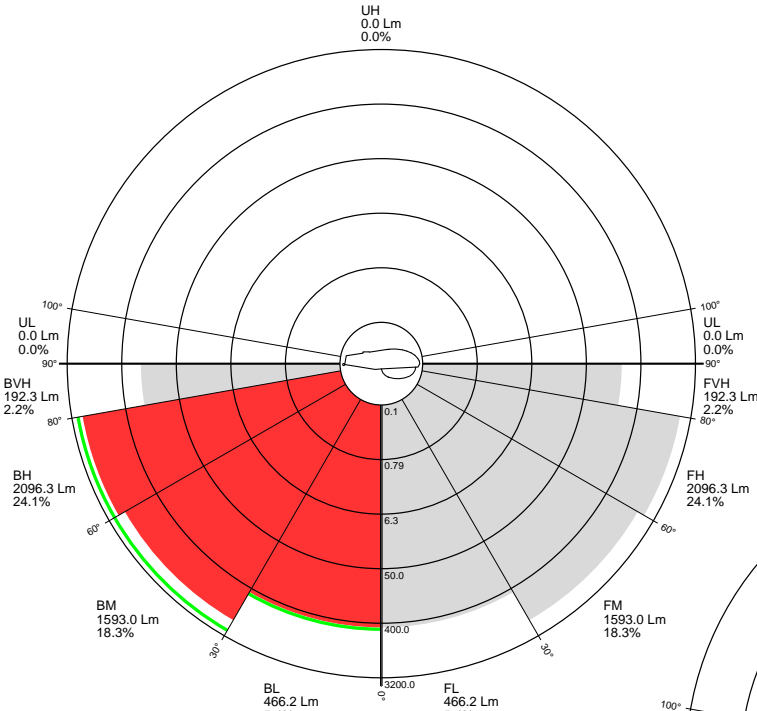


REPORT NUMBER: SCALED FROM RAB01406
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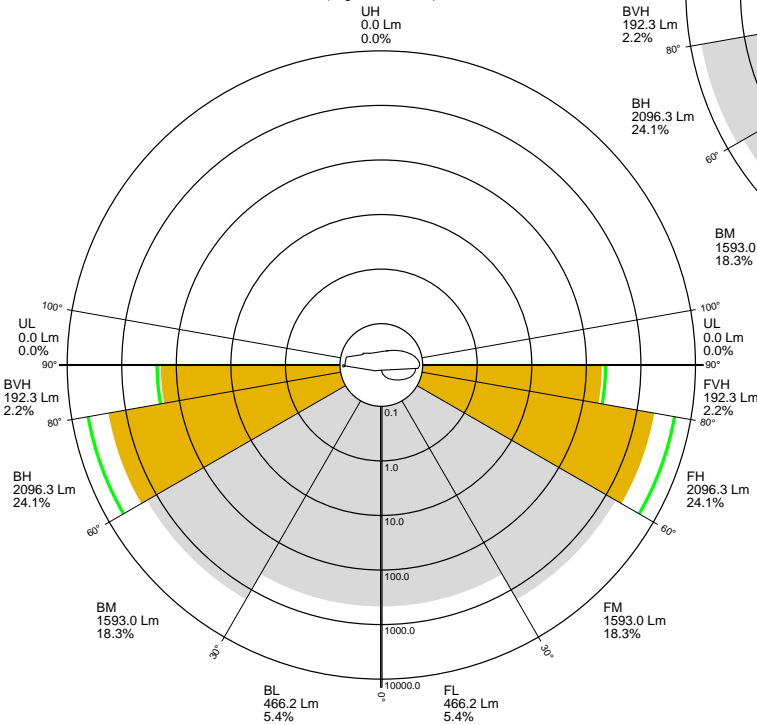
Backlight Rating Details

(Logarithmic scale)



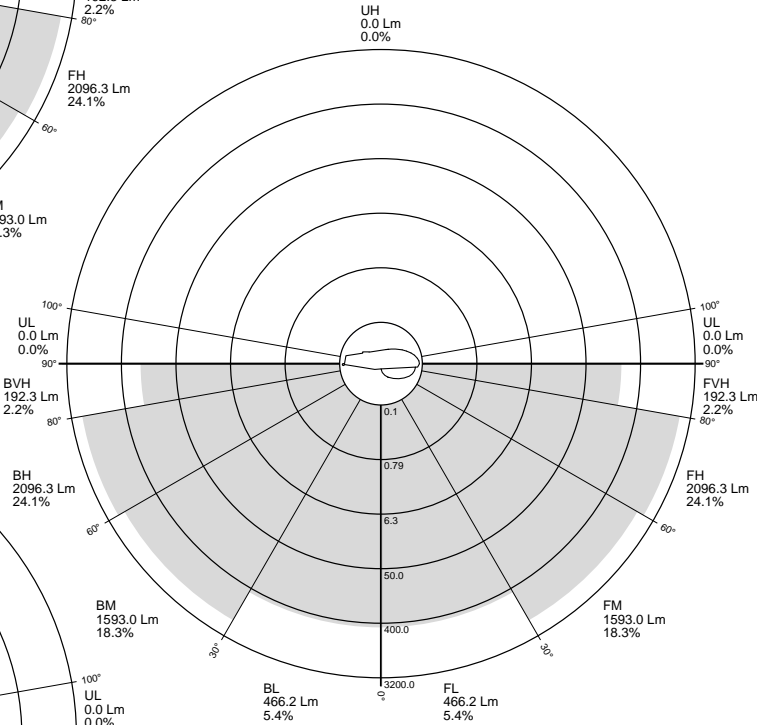
Glare Rating Details

(Logarithmic scale)



Uplight Rating Details

(Logarithmic scale)



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CANDELA TABULATION

	STREET SIDE	LATERAL ANGLE									
		0.0	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	5.	5.	5.	7.	13.	13.	12.	7.	5.	5.
	85.0	16.	21.	45.	157.	261.	78.	257.	156.	60.	26.
V	82.5	79.	99.	287.	989.	1051.	936.	1120.	842.	387.	168.
E	80.0	695.	717.	852.	1120.	2291.	1850.	2011.	1141.	837.	722.
R	77.5<<	857.	875.	1023.	1381.	2707.	4345.	2743.	1290.	927.	807.
T	75.0	1671.	1692.	2157.	2820.	3219.	3376.	3377.	2935.	2272.	1765.
I	72.5	2767.	2797.	2906.	2849.	2561.	2347.	2622.	3022.	3053.	2926.
C	70.0	2501.	2506.	2447.	2325.	2046.	1968.	2059.	2404.	2598.	2696.
A	67.5	2051.	2080.	2039.	2015.	1809.	1739.	1802.	2011.	2080.	2138.
L	65.0	1739.	1768.	1736.	1835.	1701.	1628.	1693.	1815.	1727.	1791.
	62.5	1586.	1615.	1623.	1706.	1692.	1581.	1685.	1706.	1598.	1591.
A	60.0	1474.	1503.	1544.	1627.	1662.	1630.	1667.	1635.	1557.	1501.
N	57.5	1465.	1477.	1515.	1513.	1649.	1659.	1674.	1535.	1554.	1498.
G	55.0	1418.	1403.	1493.	1512.	1579.	1715.	1620.	1527.	1494.	1416.
L	52.5	1413.	1406.	1491.	1507.	1567.	1671.	1561.	1511.	1494.	1422.
E	50.0	1420.	1422.	1509.	1492.	1494.	1509.	1491.	1511.	1513.	1423.
	47.5	1439.	1431.	1531.	1545.	1422.	1405.	1425.	1540.	1532.	1442.
	45.0	1462.	1456.	1527.	1514.	1309.	1259.	1274.	1526.	1507.	1433.
	42.5	1399.	1388.	1429.	1355.	1208.	1169.	1220.	1336.	1431.	1380.
	40.0	1311.	1274.	1290.	1224.	1146.	1122.	1153.	1230.	1290.	1235.
	37.5	1220.	1197.	1189.	1143.	1176.	1080.	1186.	1137.	1249.	1196.
	35.0	1162.	1135.	1104.	1140.	1149.	1086.	1180.	1121.	1139.	1141.
	30.0	1124.	1102.	1064.	1077.	1157.	1241.	1125.	1099.	1096.	1099.
	25.0	1151.	1146.	1156.	1170.	1150.	1133.	1140.	1202.	1129.	1122.
	20.0	1159.	1150.	1129.	1070.	1112.	1086.	1154.	1108.	1117.	1142.
	15.0	1092.	1090.	1071.	1075.	1098.	1103.	1090.	1060.	1060.	1079.
	10.0	1082.	1084.	1063.	1049.	1038.	1008.	999.	1028.	1054.	1067.
	5.0	1040.	1044.	1060.	1034.	1025.	1020.	1021.	1023.	1050.	1047.
	0.0	1066.	1066.	1066.	1066.	1066.	1066.	1066.	1066.	1066.	1066.

||

PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA

REPORT NUMBER: SCALED FROM RAB01406
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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.	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	5.	5.	5.	7.	12.	13.	13.	7.	5.	5.	5.
85.0	18.	26.	60.	156.	257.	78.	261.	157.	45.	21.	16.
V 82.5	96.	168.	387.	842.	1120.	936.	1051.	989.	287.	99.	79.
E 80.0	693.	722.	837.	1141.	2011.	1850.	2291.	1120.	852.	717.	695.
R 77.5<<	782.	807.	927.	1290.	2743.	4345.	2707.	1381.	1023.	875.	857.
T 75.0	1730.	1765.	2272.	2935.	3377.	3376.	3219.	2820.	2157.	1692.	1671.
I 72.5	2899.	2926.	3053.	3022.	2622.	2347.	2561.	2849.	2906.	2797.	2767.
C 70.0	2672.	2696.	2598.	2404.	2059.	1968.	2046.	2325.	2447.	2506.	2501.
A 67.5	2137.	2138.	2080.	2011.	1802.	1739.	1809.	2015.	2039.	2080.	2051.
L 65.0	1766.	1791.	1727.	1815.	1693.	1628.	1701.	1835.	1736.	1768.	1739.
62.5	1562.	1591.	1598.	1706.	1685.	1581.	1692.	1706.	1623.	1615.	1586.
A 60.0	1468.	1501.	1557.	1635.	1667.	1630.	1662.	1627.	1544.	1503.	1474.
N 57.5	1513.	1498.	1554.	1535.	1674.	1659.	1649.	1513.	1515.	1477.	1465.
G 55.0	1421.	1416.	1494.	1527.	1620.	1715.	1579.	1512.	1493.	1403.	1418.
L 52.5	1439.	1422.	1494.	1511.	1561.	1671.	1567.	1507.	1491.	1406.	1413.
E 50.0	1448.	1423.	1513.	1511.	1491.	1509.	1494.	1492.	1509.	1422.	1420.
47.5	1450.	1442.	1532.	1540.	1425.	1405.	1422.	1545.	1531.	1431.	1439.
45.0	1434.	1433.	1507.	1526.	1274.	1259.	1309.	1514.	1527.	1456.	1462.
42.5	1407.	1380.	1431.	1336.	1220.	1169.	1208.	1355.	1429.	1388.	1399.
40.0	1269.	1235.	1290.	1230.	1153.	1122.	1146.	1224.	1290.	1274.	1311.
37.5	1217.	1196.	1249.	1137.	1186.	1080.	1176.	1143.	1189.	1197.	1220.
35.0	1164.	1141.	1139.	1121.	1180.	1086.	1149.	1140.	1104.	1135.	1162.
30.0	1112.	1099.	1096.	1099.	1125.	1241.	1157.	1077.	1064.	1102.	1124.
25.0	1131.	1122.	1129.	1202.	1140.	1133.	1150.	1170.	1156.	1146.	1151.
20.0	1149.	1142.	1117.	1108.	1154.	1086.	1112.	1070.	1129.	1150.	1159.
15.0	1085.	1079.	1060.	1060.	1090.	1103.	1098.	1075.	1071.	1090.	1092.
10.0	1063.	1067.	1054.	1028.	999.	1008.	1038.	1049.	1063.	1084.	1082.
5.0	1040.	1047.	1050.	1023.	1021.	1020.	1025.	1034.	1060.	1044.	1040.
0.0	1066.	1066.	1066.	1066.	1066.	1066.	1066.	1066.	1066.	1066.	1066.

CONE OF MAXIMUM CANDELA

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5-DEGREE ZONAL LUMEN SUMMARY

0- 5	25
5- 10	74
10- 15	127
15- 20	181
20- 25	238
25- 30	287
30- 35	332
35- 40	392
40- 45	491
45- 50	592
50- 55	657
55- 60	722
60- 65	805
65- 70	1015
70- 75	1377
75- 80	996
80- 85	366
85- 90	18
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	99
0- 20	407
0- 30	932
0- 40	1656
0- 50	2739
0- 60	4118
0- 70	5938
0- 80	8311
0- 90	8696
0-100	8696
0-110	8696
0-120	8696
0-130	8696
0-140	8696
0-150	8696
0-160	8696
0-170	8696
0-180	8696