

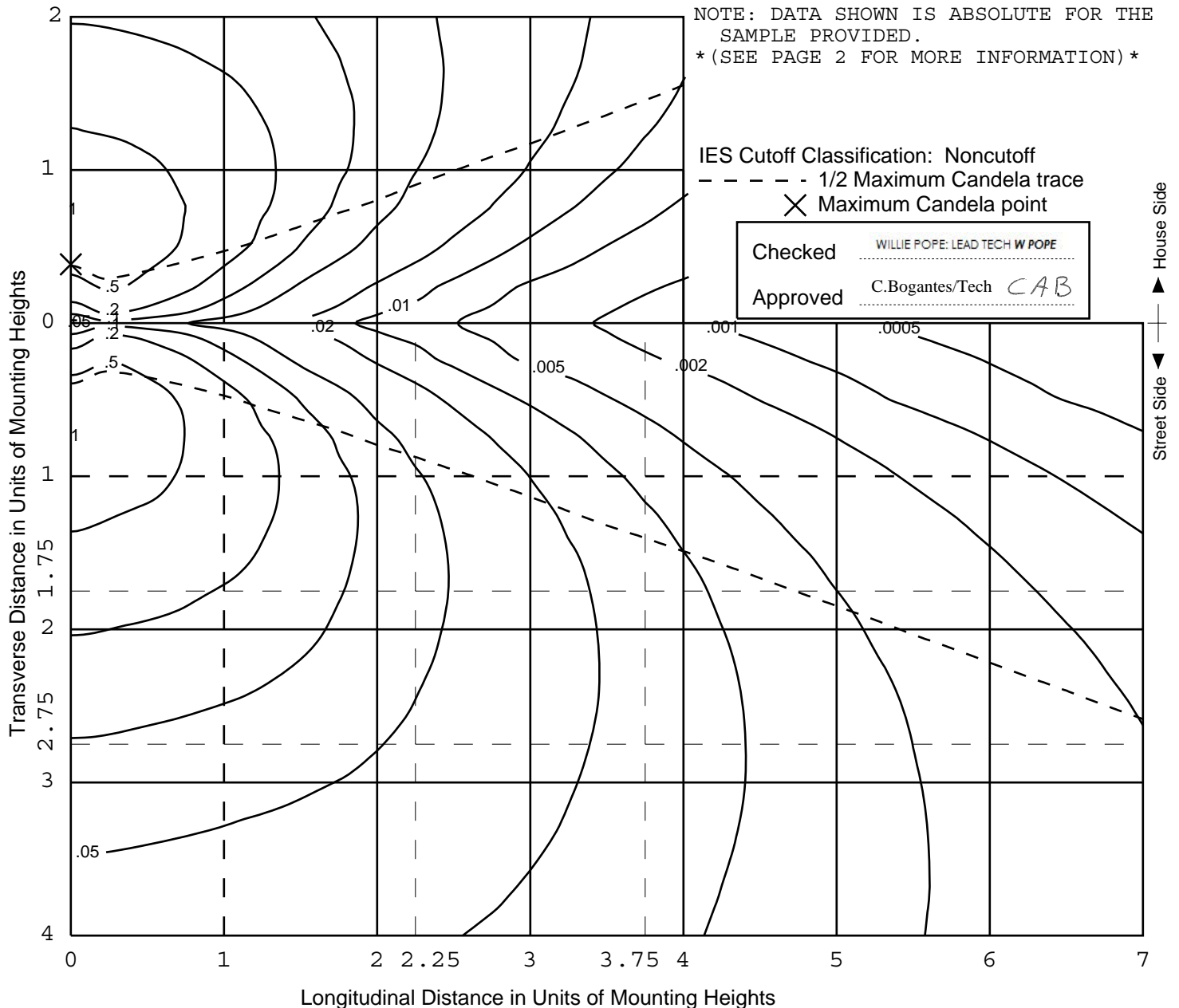
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

Values based on 2 foot mounting height.

REPORT NUMBER: P34090
 ISSUE DATE: 04/29/15 PAGE: 1 OF 8
 DATE SAMPLE TESTED: 04/29/15
 CATALOG NUMBER:
 1800-24-17LED3015-120-BK-80
 LUMINAIRE: SEDONA BOLLARD WITH A 15
 DEGREE LIGHT PATTERN & 80% LIGHT
 LEVEL
 LAMP CAT. NO.: TLM-R20A-A123015
 LAMP: [1] 3000K LED
 BALLAST CAT. NO.: NA
 BALLAST: [1] TLM TERRALUX MODULE
 INPUT ELECTRICAL: 120.0 VOLTS, 12.8
 WATTS, 0.110 AMPS
 MOUNTING: PATH

NOTE: DATA SHOWN IS ABSOLUTE FOR THE
 SAMPLE PROVIDED.

(SEE PAGE 2 FOR MORE INFORMATION)



Eaton's Cooper Lighting Business
Photometric Laboratory
1121 Highway 74 South
Peachtree City, GA 30269
PHOTOMETRIC TEST REPORT



NVLAP LAB CODE 200050-0



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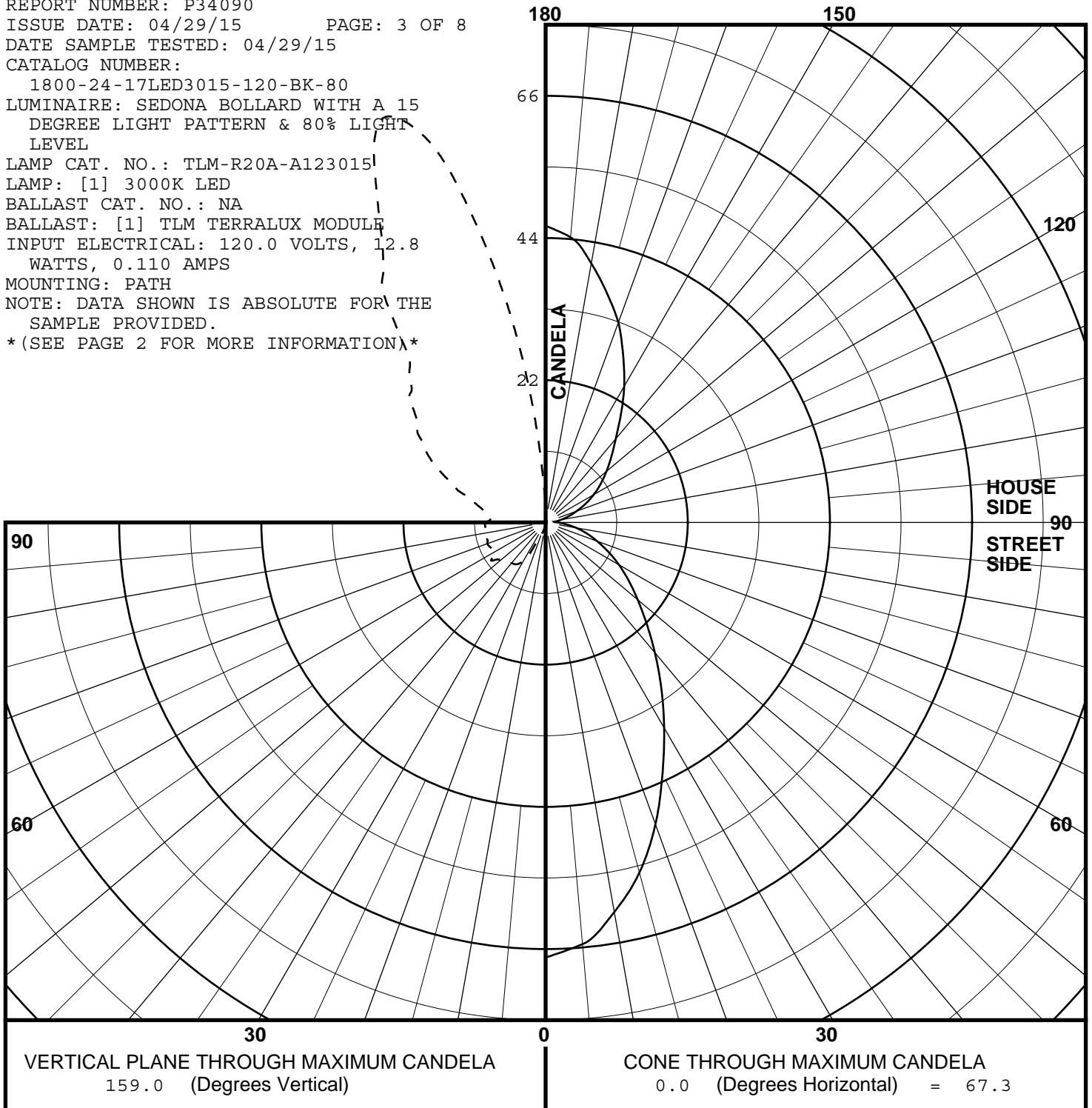
PAGE: 2 OF 8
DATE SAMPLE TESTED: 04/29/15

ADDITIONAL INFORMATION

ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING A 500
WATT, NIST TRACEABLE, OMNIDIRECTIONAL LAB LUMEN STANDARD IN THE
GONIOPHOTOMETER WITH TEST DISTANCE OF 24 FT
THDi:13.2%, PF:.98255, PREBURN: 12 HR, TOTAL OP TIME: 13 HR
STAB:30 MIN
AMBIENT: 24.8

MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

REPORT NUMBER: P34090
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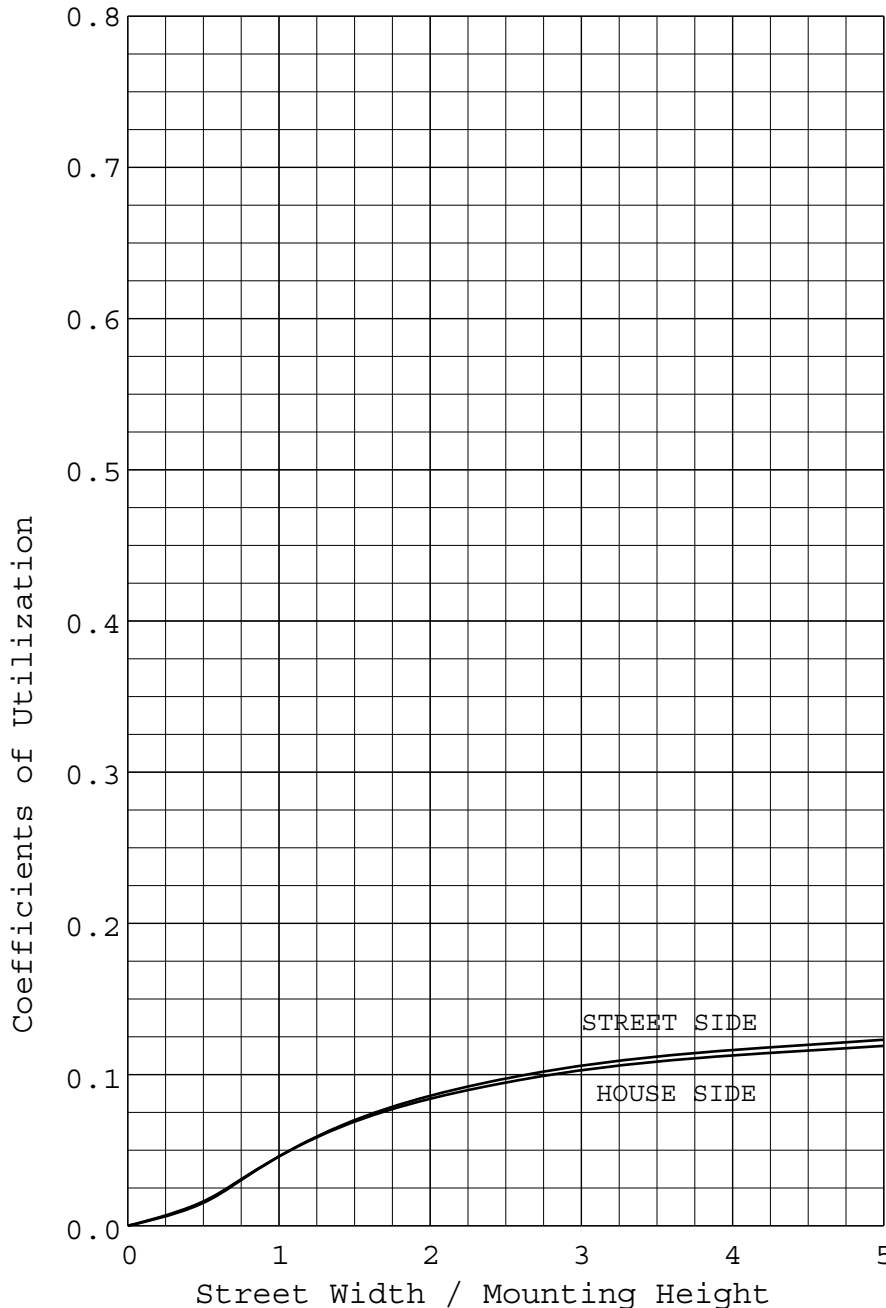
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ISSUE DATE: 04/29/15

DATE SAMPLE TESTED: 04/29/15

CATALOG NUMBER: 1800-24-17LED3015-120-BK-80

COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	17.	15.0
DOWNWARD HOUSE SIDE	17.	14.5
DOWNWARD TOTAL	34.	29.5
UPWARD STREET SIDE	42.	36.9
UPWARD HOUSE SIDE	39.	33.7
UPWARD TOTAL	81.	70.5
TOTAL FLUX	114.	100.0

TOTAL INPUT WATTS = 12.8
EFFICACY = 8.9 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.

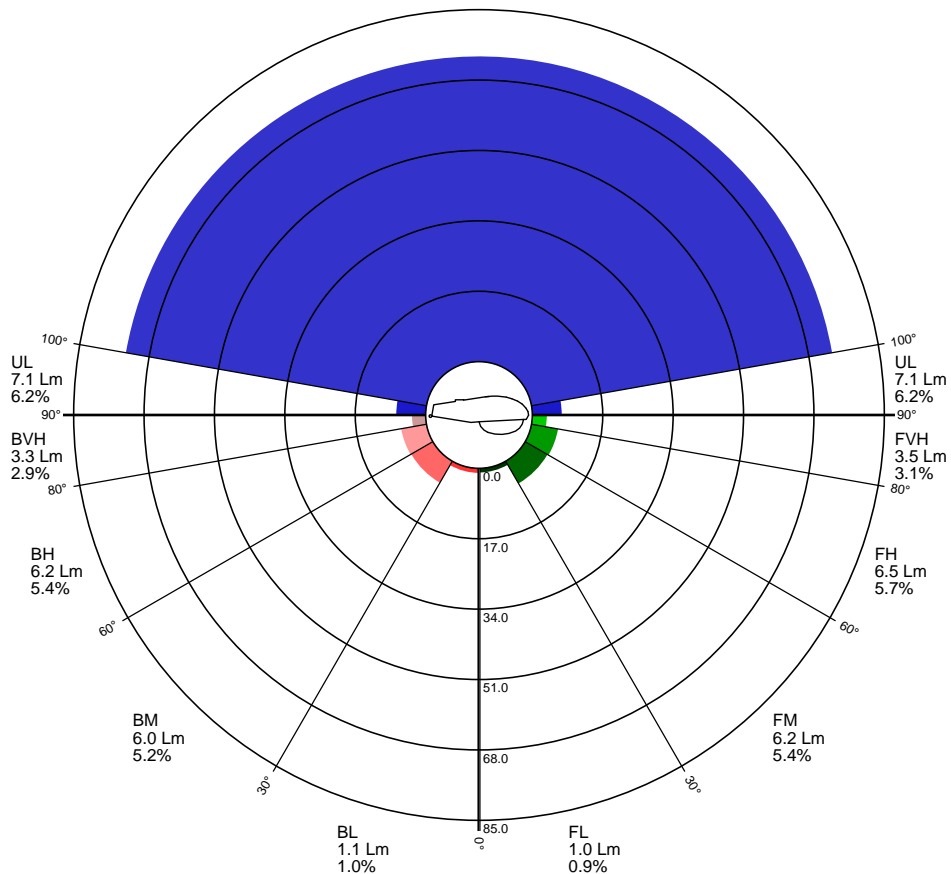
THIS REPORT IS BASED ON IES PUBLICATION LM-79-08. FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE.

BUG Rating:				B0	U2	G0
Zonal Summary				Zone Ratings		
		Lumens	% of Lamp	B	U	G
Forward		17	15.0			
FL	(0° - 30°)	1.0	0.9			
FM	(30° - 60°)	6.2	5.4			
FH	(60° - 80°)	6.5	5.7			G0
FVH	(80° - 90°)	3.5	3.1			G0
Backward		17	14.5			
BL	(0° - 30°)	1.1	1.0	B0		
BM	(30° - 60°)	6.0	5.2	B0		
BH	(60° - 80°)	6.2	5.4	B0		G0
BVH	(80° - 90°)	3.3	2.9			G0
Upward		81	70.6			
UL	(90° - 100°)	7.1	6.2		U1	
UH	(100° - 180°)	73.7	64.4		U2	
Trapped Light		0	-0.2			
Total Flux		115	100.2			

Zonal Lumen Summary

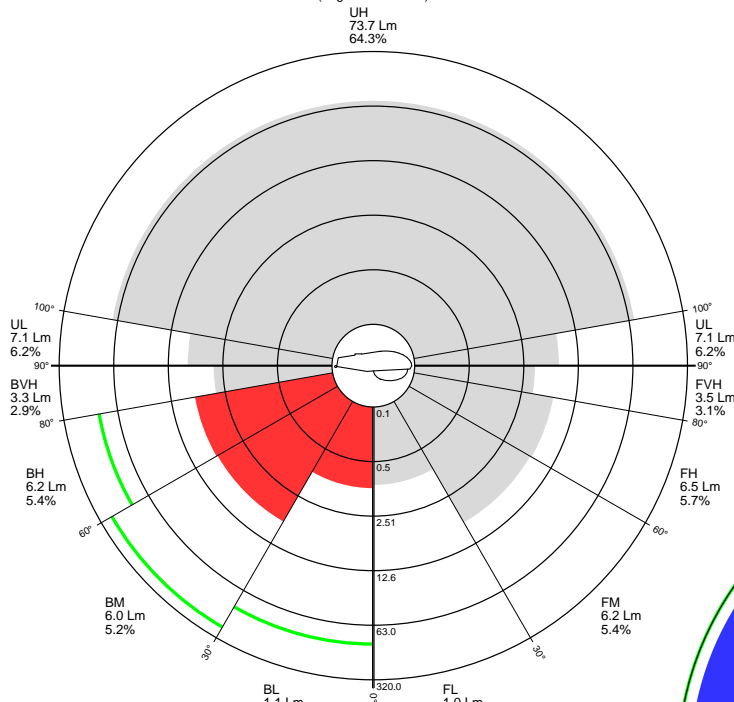
(Linear scale)

UH
73.7 Lm
64.3%



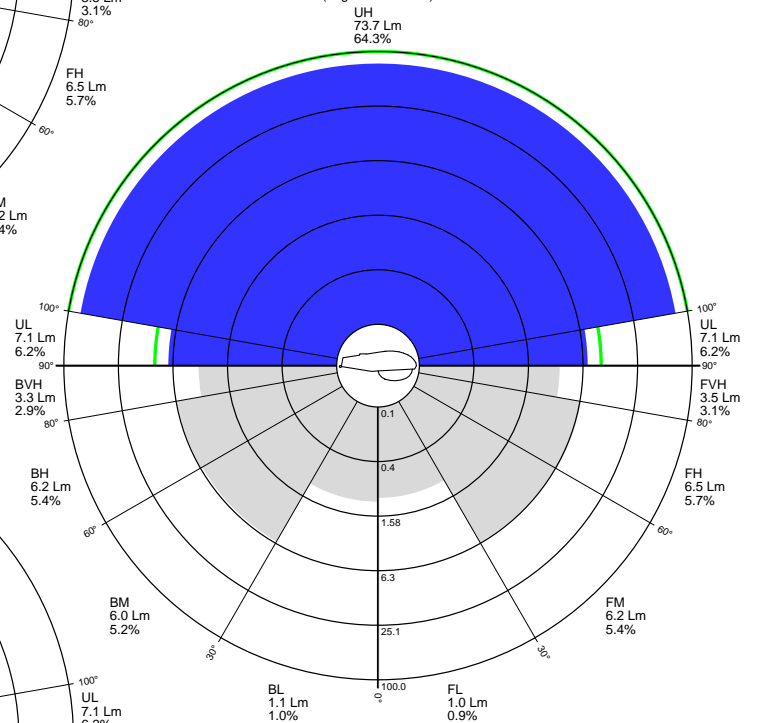
Backlight Rating Details

(Logarithmic scale)



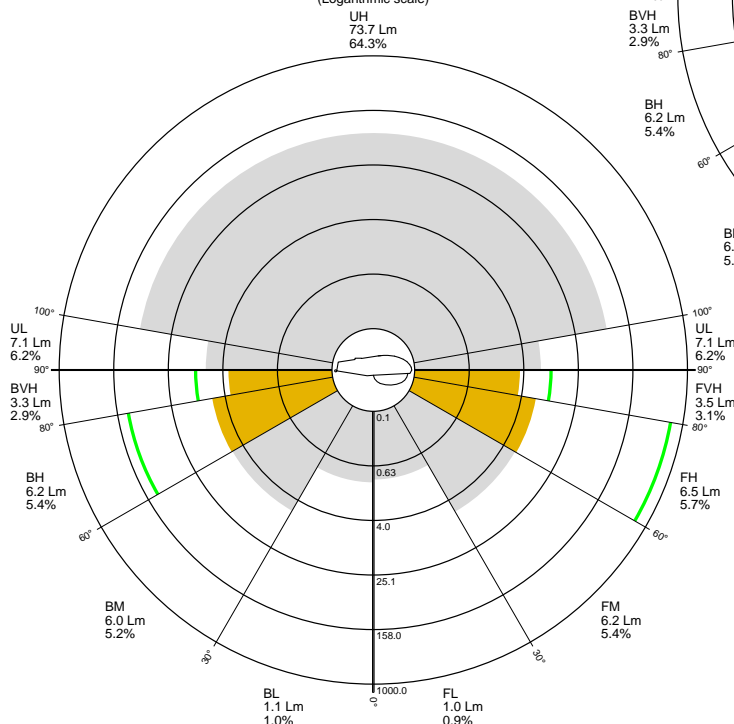
Uplight Rating Details

(Logarithmic scale)



Glare 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	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	
175.0	12.6	12.5	11.9	11.2	9.9	8.4	6.8	5.2	3.7	2.5	
165.0	55.3	54.8	49.8	40.3	29.4	21.2	14.9	9.9	5.9	3.0	
159.0<<	67.3	65.5	56.1	42.8	31.2	22.1	15.7	10.7	6.6	3.2	
155.0	62.9	62.4	56.3	43.5	31.3	22.7	16.1	11.0	6.6	3.0	
145.0	44.0	44.2	41.8	34.3	25.9	19.7	14.9	10.1	5.9	2.7	
135.0	29.3	28.9	26.5	22.9	19.0	16.5	12.7	8.9	5.1	2.2	
125.0	24.2	23.7	21.0	18.2	16.3	14.3	11.4	7.9	4.3	1.7	
115.0	17.5	17.2	15.9	14.7	13.6	12.3	9.8	6.7	3.6	1.2	
105.0	11.2	11.0	10.6	10.3	10.3	9.6	7.8	5.5	2.8	0.9	
95.0	8.6	8.5	8.6	8.9	9.2	8.5	6.8	4.7	2.3	0.6	
90.0	9.2	8.8	8.5	8.8	9.0	8.2	6.6	4.6	2.3	0.6	
87.5	9.4	9.0	8.7	8.9	9.0	8.2	6.6	4.5	2.3	0.6	
85.0	9.3	9.1	8.8	8.8	9.0	8.1	6.6	4.5	2.2	0.6	
V 82.5	9.0	9.0	8.8	8.9	9.0	8.1	6.6	4.5	2.2	0.6	
E 80.0	9.0	8.8	8.8	9.0	9.1	8.1	6.5	4.5	2.2	0.6	
R 77.5	9.1	9.0	8.9	9.0	9.1	8.1	6.5	4.4	2.2	0.6	
T 75.0	9.4	9.3	9.1	9.2	9.2	8.1	6.4	4.4	2.2	0.6	
I 72.5	9.4	9.3	9.1	9.2	9.2	8.0	6.4	4.3	2.2	0.6	
C 70.0	9.6	9.5	9.3	9.4	9.2	8.0	6.3	4.2	2.1	0.6	
A 67.5	9.5	9.4	9.1	9.1	9.0	7.8	6.2	4.2	2.1	0.6	
L 65.0	9.3	9.2	8.9	8.9	8.7	7.6	6.1	4.1	2.0	0.6	
62.5	9.3	9.2	8.9	8.7	8.4	7.4	5.9	4.0	2.0	0.6	
A 60.0	9.5	9.4	8.9	8.7	8.4	7.3	5.8	3.9	2.0	0.6	
N 57.5	9.4	9.3	9.0	8.8	8.3	7.2	5.6	3.8	1.9	0.6	
G 55.0	10.3	9.9	9.1	8.7	8.2	7.0	5.5	3.7	1.9	0.6	
L 52.5	9.4	9.2	8.7	8.5	7.9	6.8	5.3	3.5	1.8	0.6	
E 50.0	9.1	9.0	8.5	8.3	7.6	6.5	5.1	3.4	1.8	0.6	
47.5	9.1	8.9	8.3	8.1	7.3	6.2	4.9	3.3	1.7	0.6	
45.0	8.8	8.7	8.3	7.9	7.1	5.9	4.7	3.1	1.6	0.6	
42.5	8.5	8.5	8.1	7.7	6.9	5.8	4.5	2.9	1.5	0.6	
40.0	8.2	8.2	7.9	7.4	6.6	5.6	4.2	2.8	1.5	0.6	
37.5	8.1	8.1	7.6	7.1	6.3	5.3	4.1	2.6	1.4	0.6	
35.0	7.9	7.8	7.4	6.8	6.0	5.0	3.8	2.5	1.3	0.5	
30.0	6.8	6.8	6.6	6.1	5.2	4.2	3.2	2.1	1.1	0.5	
25.0	3.6	3.9	5.4	5.1	4.3	3.4	2.5	1.6	0.9	0.4	
20.0	2.2	2.5	3.9	4.0	3.3	2.6	1.9	1.2	0.7	0.4	
15.0	1.4	1.5	2.3	2.5	2.3	1.8	1.3	0.9	0.5	0.3	
10.0	0.7	0.8	0.9	1.1	1.1	1.0	0.8	0.5	0.4	0.2	
5.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	
0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	

||
 PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA



NVLAP LAB CODE 200050-0



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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	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
175.0	2.0	1.6	1.3	1.4	2.0	2.6	3.2	3.7	4.1	4.3	4.2
165.0	1.7	1.2	2.7	5.0	7.8	11.2	15.4	20.1	23.8	25.7	26.4
159.0<<	1.9	1.4	3.7	6.8	10.4	14.4	20.3	28.4	36.7	44.3	45.9
155.0	1.8	1.5	4.2	7.7	11.5	16.5	23.3	32.6	43.8	53.4	54.5
145.0	1.4	1.8	4.9	8.5	12.9	18.0	23.7	32.0	39.9	45.1	46.0
135.0	1.0	1.6	4.2	7.8	12.0	15.4	19.0	23.7	28.7	33.6	35.0
125.0	0.6	1.3	3.7	7.2	10.9	14.2	16.5	18.2	20.6	23.0	23.2
115.0	0.5	1.0	3.3	6.7	10.0	12.7	14.5	15.5	16.6	17.7	18.3
105.0	0.3	0.7	2.8	5.6	8.1	10.0	11.0	10.9	10.9	11.0	11.0
95.0	0.3	0.6	2.2	4.5	6.6	8.3	9.0	8.6	8.5	9.3	9.4
90.0	0.3	0.5	2.1	4.4	6.4	8.0	8.6	8.3	8.2	8.6	8.8
87.5	0.3	0.5	2.1	4.3	6.4	7.9	8.5	8.1	8.1	8.5	8.5
85.0	0.3	0.5	2.1	4.3	6.3	7.8	8.5	8.2	8.1	8.3	8.5
V 82.5	0.3	0.5	2.1	4.3	6.3	7.8	8.5	8.2	8.2	8.4	8.6
E 80.0	0.3	0.6	2.1	4.3	6.3	7.8	8.5	8.2	8.3	8.7	8.8
R 77.5	0.3	0.6	2.1	4.2	6.2	7.8	8.5	8.3	8.5	9.0	9.2
T 75.0	0.3	0.6	2.1	4.2	6.2	7.8	8.5	8.4	8.6	9.1	9.3
I 72.5	0.4	0.6	2.1	4.1	6.1	7.7	8.5	8.5	8.8	9.3	9.5
C 70.0	0.4	0.6	2.1	4.1	6.1	7.6	8.5	8.7	9.3	10.6	10.8
A 67.5	0.4	0.6	2.0	4.0	6.0	7.6	8.5	8.7	9.0	9.5	9.7
L 65.0	0.4	0.6	2.0	4.0	5.9	7.4	8.1	8.3	8.2	8.3	8.4
62.5	0.3	0.6	2.0	3.9	5.7	7.2	7.9	8.2	8.1	8.3	8.4
A 60.0	0.4	0.6	2.0	3.8	5.6	7.0	7.8	8.1	8.1	8.3	8.4
N 57.5	0.4	0.6	2.0	3.8	5.5	6.9	7.6	8.0	8.0	8.2	8.3
G 55.0	0.4	0.6	1.9	3.7	5.4	6.8	7.6	8.0	8.2	8.5	8.6
L 52.5	0.4	0.6	1.9	3.6	5.2	6.6	7.4	7.9	8.0	8.4	8.6
E 50.0	0.4	0.6	1.8	3.5	5.1	6.4	7.3	7.7	7.9	8.3	8.3
47.5	0.4	0.6	1.8	3.3	4.8	6.3	7.2	7.6	7.9	8.3	8.4
45.0	0.4	0.6	1.7	3.2	4.7	6.1	7.1	7.7	7.8	8.0	8.2
42.5	0.4	0.6	1.6	3.0	4.5	5.9	7.0	7.6	7.9	8.1	8.1
40.0	0.4	0.6	1.6	2.9	4.3	5.6	6.7	7.4	7.8	8.1	8.2
37.5	0.4	0.6	1.5	2.8	4.1	5.4	6.3	7.1	7.5	7.9	8.0
35.0	0.4	0.6	1.4	2.6	3.9	5.1	6.0	6.7	7.2	7.6	7.7
30.0	0.3	0.5	1.2	2.2	3.3	4.4	5.3	6.0	6.5	6.7	6.8
25.0	0.3	0.5	1.1	1.9	2.8	3.7	4.6	5.2	5.3	4.6	4.2
20.0	0.3	0.5	0.9	1.5	2.2	3.0	3.7	4.3	4.1	2.7	2.3
15.0	0.3	0.4	0.7	1.2	1.6	2.2	2.7	2.9	2.6	1.8	1.6
10.0	0.3	0.3	0.5	0.8	1.1	1.4	1.5	1.5	1.3	1.0	1.0
5.0	0.2	0.2	0.2	0.3	0.4	0.5	0.5	0.5	0.5	0.4	0.4
0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

CONE OF MAXIMUM CANDELA