

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P295385

Luminaire Tested: **TCRL20S(7040-7050)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-222-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: TCRL20S(7040-7050)
Description: TRACER LARGE, STANDARD TRIM NEMA 3x3
Light Source: (16) 4000K&5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2038.7 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Circular (Dia: 0.25' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G0

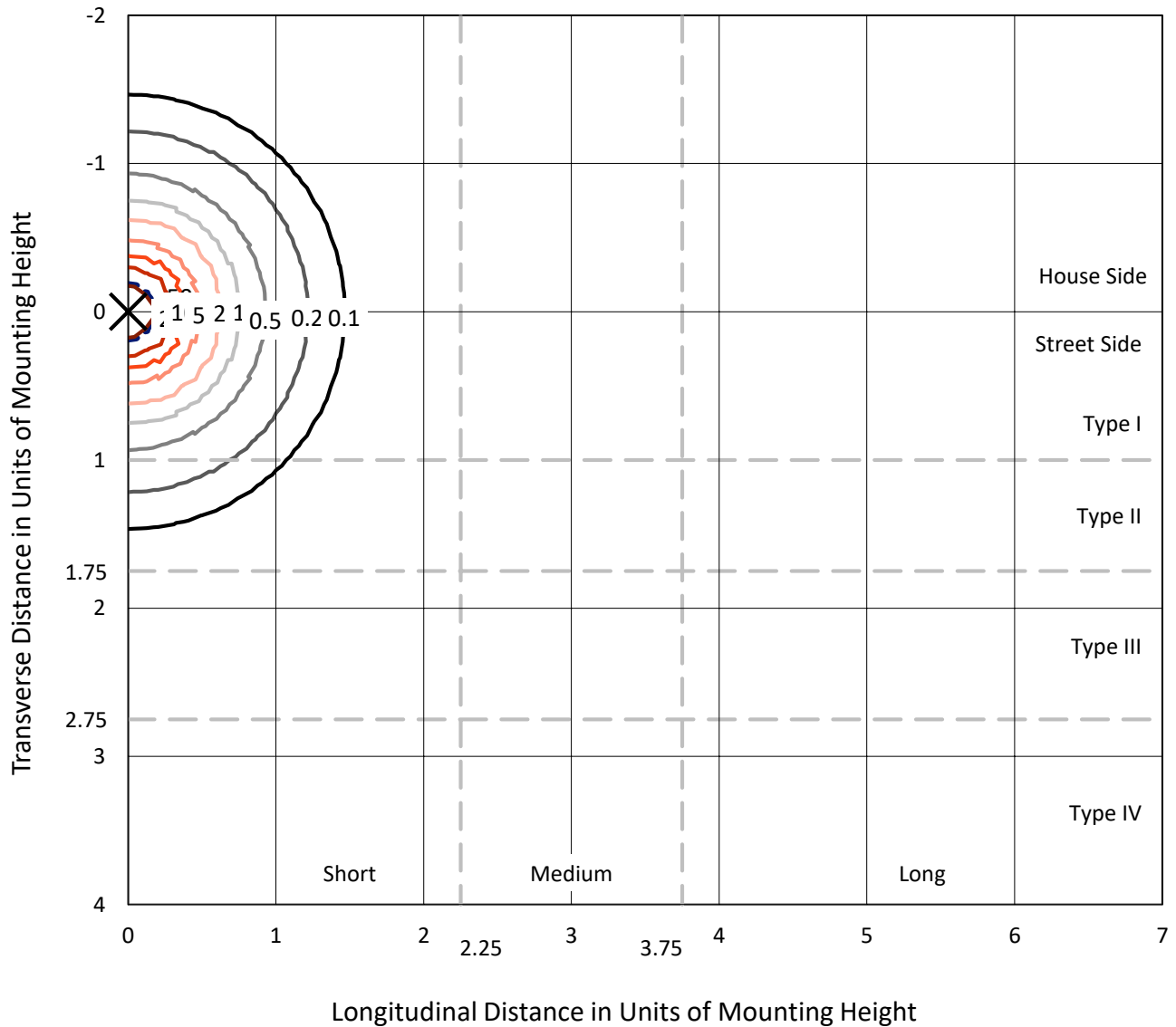
Input Watts (W): 17.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

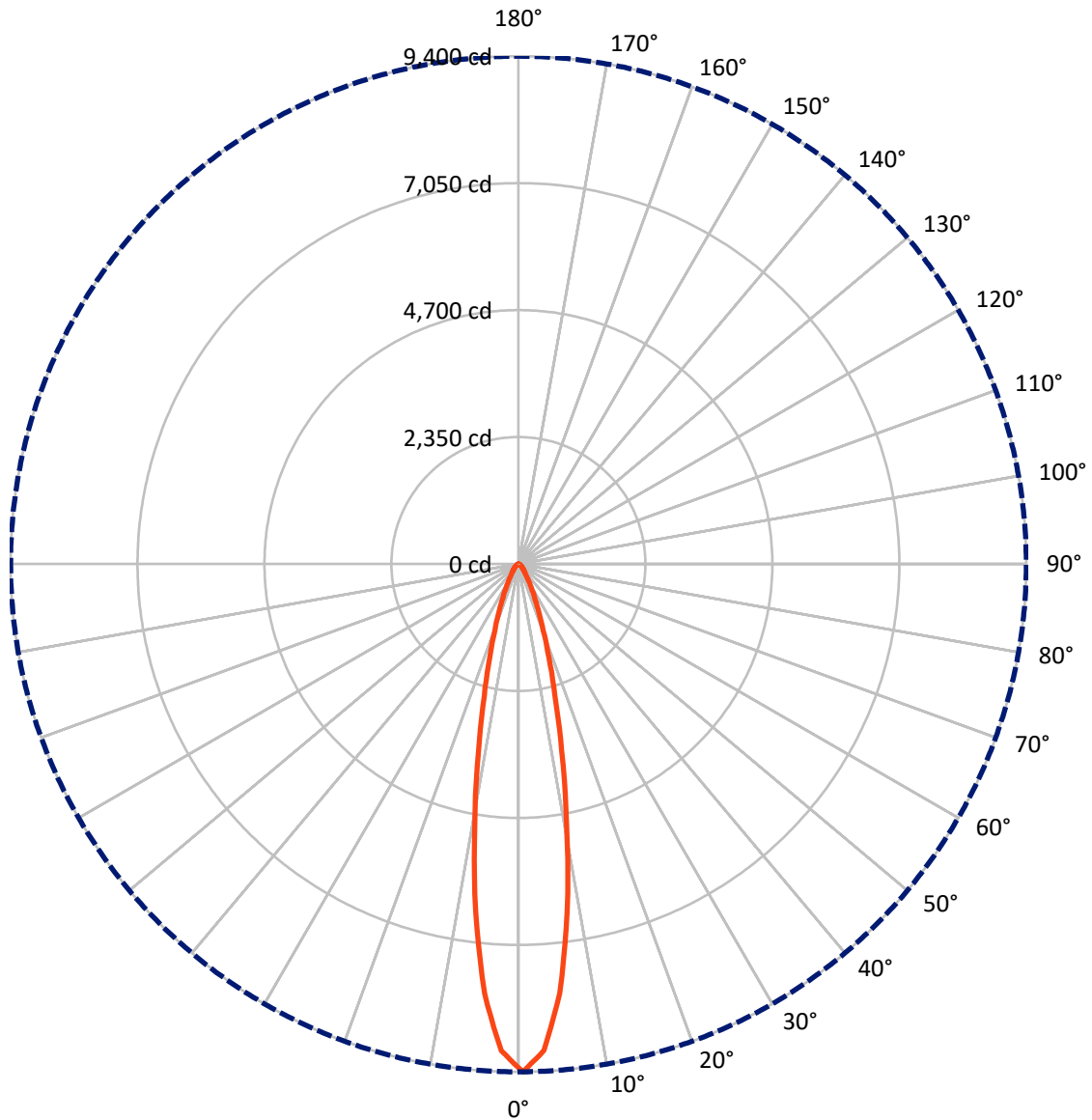
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 94 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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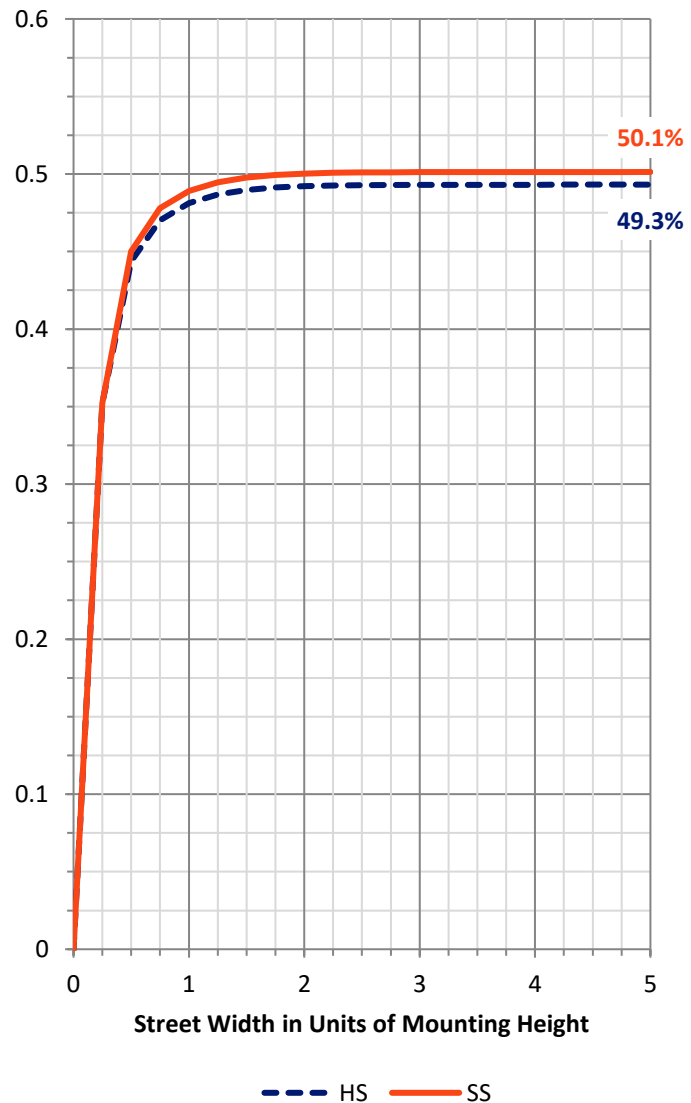
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1019.4	0.0	1019.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1019.4	0.0	1019.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	2038.7	0.0	2038.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.3	32.4
10°-20°	727.5	35.7
20°-30°	340.1	16.7
30°-40°	151.0	7.4
40°-50°	85.5	4.2
50°-60°	51.9	2.5
60°-70°	20.1	1.0
70°-80°	2.1	0.1
80°-90°	0.3	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2038.7	100.0
0°-180°	2038.7	100.0



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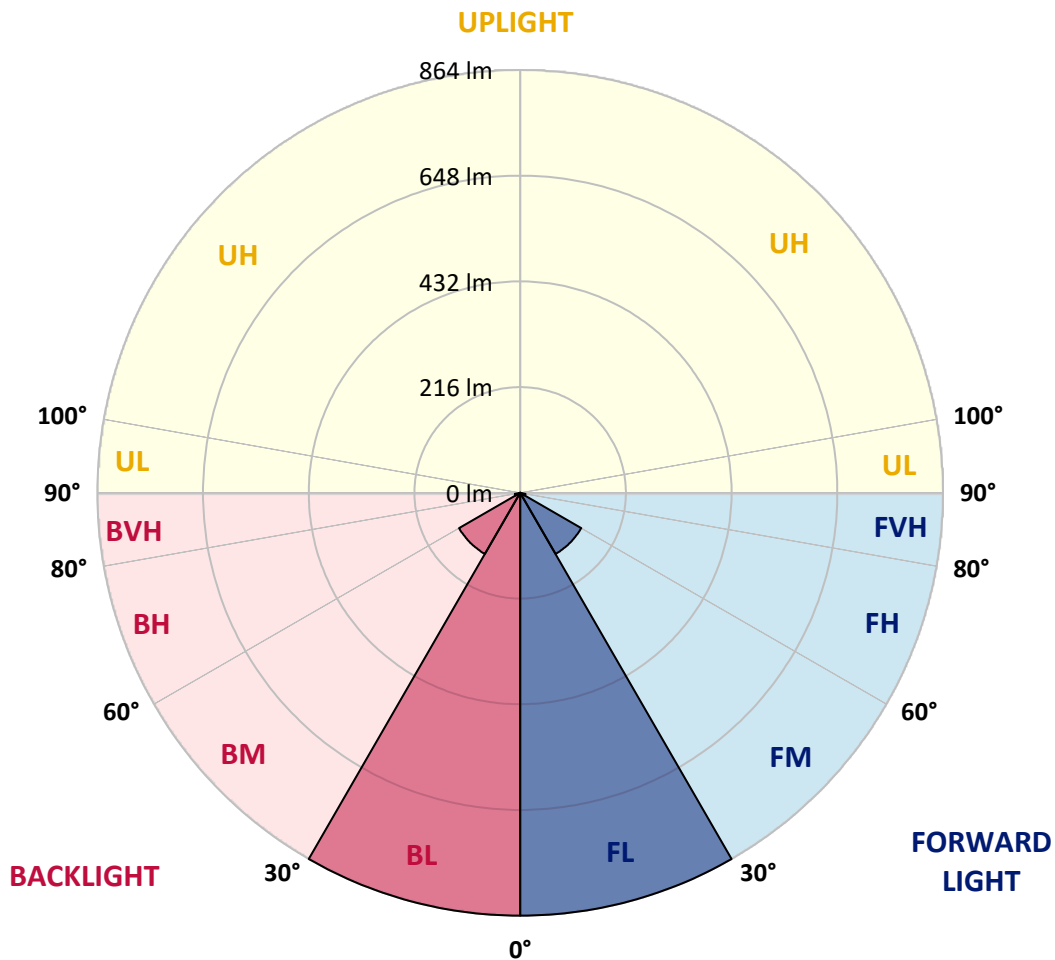
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	864.0	42.4			
FM	(30°-60°)	144.2	7.1			
FH	(60°-80°)	11.1	0.5			G0/660
FVH	(80°-90°)	0.1	0.0			G0/10
BL	(0°-30°)	864.0	42.4	B2/1000		
BM	(30°-60°)	144.2	7.1	B0/220		
BH	(60°-80°)	11.1	0.5	B0/110		G0/660
BVH	(80°-90°)	0.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9399.6
2.5°	9014.1
5°	7975.9
7.5°	6483.3
10°	4893.2
12.5°	3544.9
15°	2519.1
17.5°	1819.6
20°	1309.9
22.5°	962.8
25°	707.9
27.5°	524.6
30°	388.8
32.5°	295.1
35°	228.8
37.5°	184.6
40°	152.8
42.5°	128.1
45°	108.6
47.5°	93.0
50°	79.3
52.5°	68.3
55°	57.9
57.5°	48.1
60°	37.7
62.5°	28.0
65°	19.5
67.5°	12.4
70°	5.9
72.5°	2.6
75°	1.3
77.5°	0.7
80°	0.7
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)