

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: P295387

Luminaire Tested: **TCRL20W(7040-7050)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295387  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-140-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: TCRL20W(7040-7050)  
Description: TRACER LARGE, STANDARD TRIM NEMA 5x5  
Light Source: (16) 4000K&5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2251.4 lumens  
Efficiency: N/A  
Efficacy: 127.9 lumens/watt  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B2 - U0 - G0

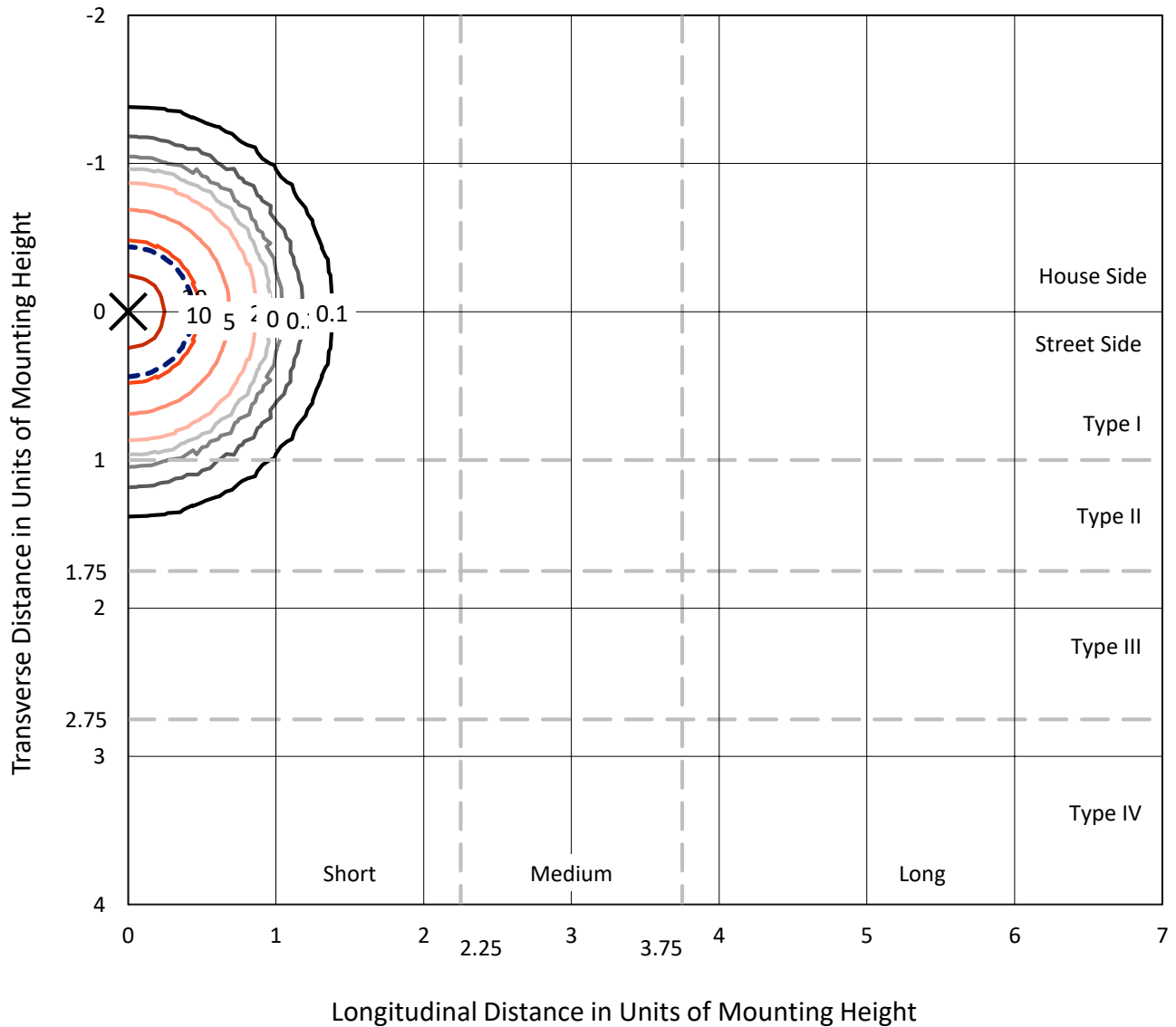
Input Watts (W): 17.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

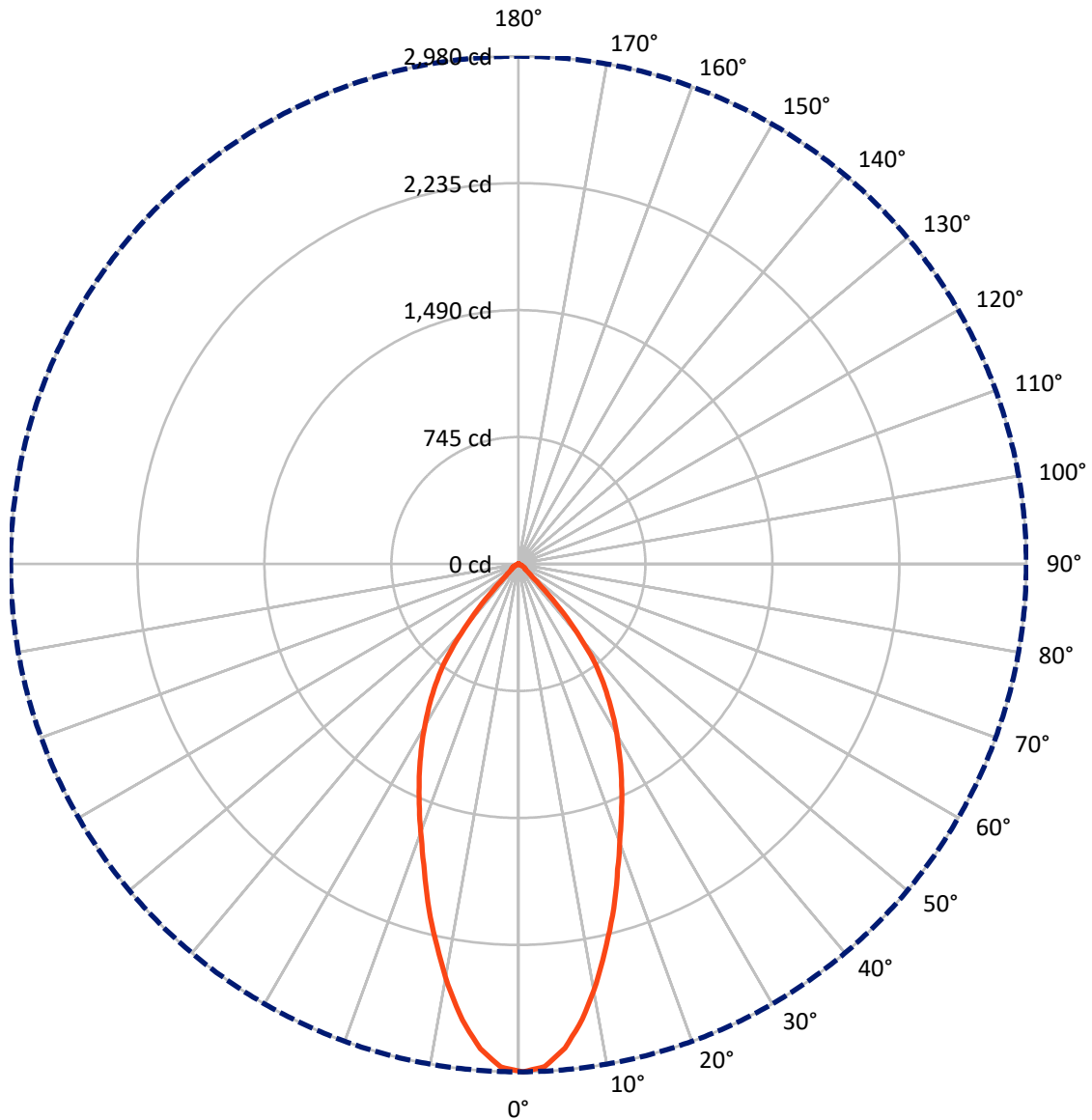
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 29.8 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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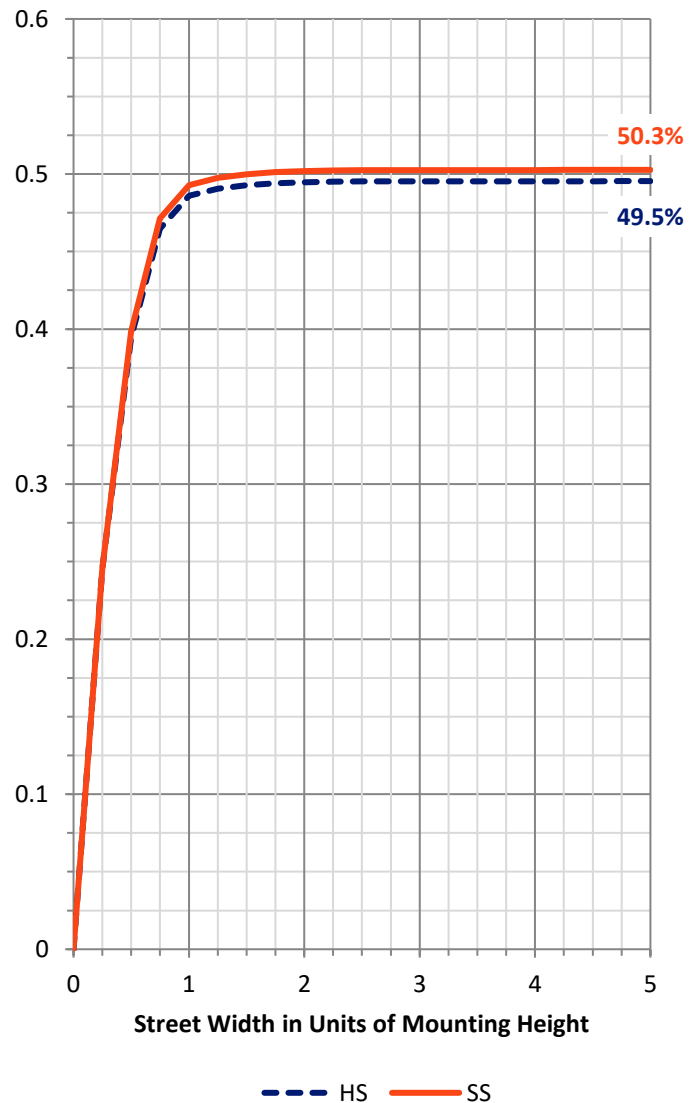
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1125.7	0.0	1125.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1125.7	0.0	1125.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	2251.4	0.0	2251.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.0	11.6
10°-20°	581.9	25.8
20°-30°	644.1	28.6
30°-40°	526.2	23.4
40°-50°	175.2	7.8
50°-60°	42.8	1.9
60°-70°	17.9	0.8
70°-80°	1.1	0.0
80°-90°	1.2	0.1
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°	2251.4	100.0
0°-180°	2251.4	100.0



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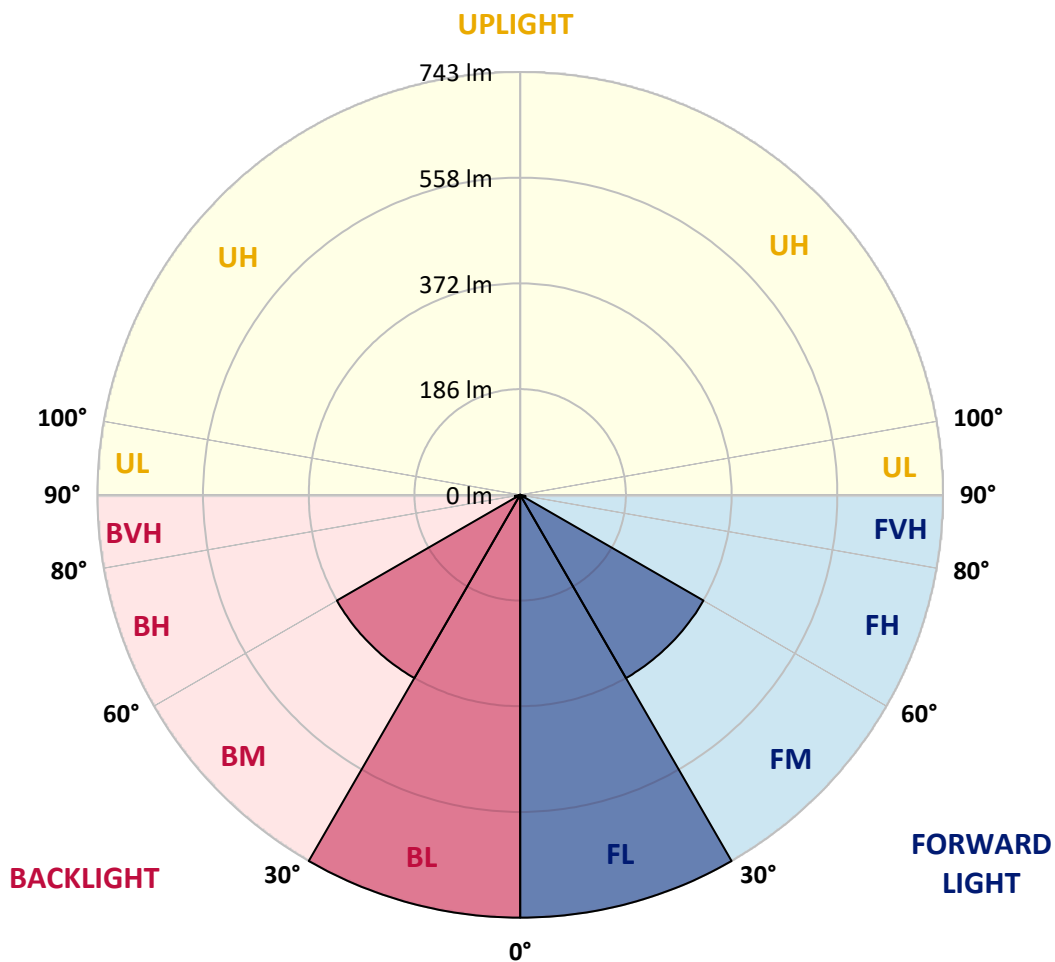
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	743.5	33.0			
FM	(30°-60°)	372.1	16.5			
FH	(60°-80°)	9.5	0.4			G0/660
FVH	(80°-90°)	0.6	0.0			G0/10
BL	(0°-30°)	743.5	33.0	B2/1000		
BM	(30°-60°)	372.1	16.5	B1/1000		
BH	(60°-80°)	9.5	0.4	B0/110		G0/660
BVH	(80°-90°)	0.6	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°	2979.7
2.5°	2952.9
5°	2852.5
7.5°	2695.8
10°	2503.6
12.5°	2292.7
15°	2095.2
17.5°	1883.6
20°	1704.1
22.5°	1550.8
25°	1404.2
27.5°	1262.9
30°	1127.6
32.5°	991.7
35°	857.1
37.5°	718.5
40°	529.0
42.5°	353.5
45°	183.5
47.5°	96.4
50°	67.0
52.5°	50.2
55°	49.6
57.5°	41.5
60°	34.1
62.5°	28.1
65°	17.4
67.5°	9.4
70°	2.0
72.5°	0.0
75°	0.0
77.5°	2.7
80°	0.7
82.5°	2.0
85°	0.0
87.5°	2.0
90°	0.0

(END OF REPORT)