

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: P295402

Luminaire Tested: **TCRL20S(7030)-VISOR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295402  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-222-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: TCRL20S(7030)-VISOR  
Description: TRACER LARGE, VISOR NEMA 3x3  
Light Source: (16) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1902.1 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
IES Classification: Type I - 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

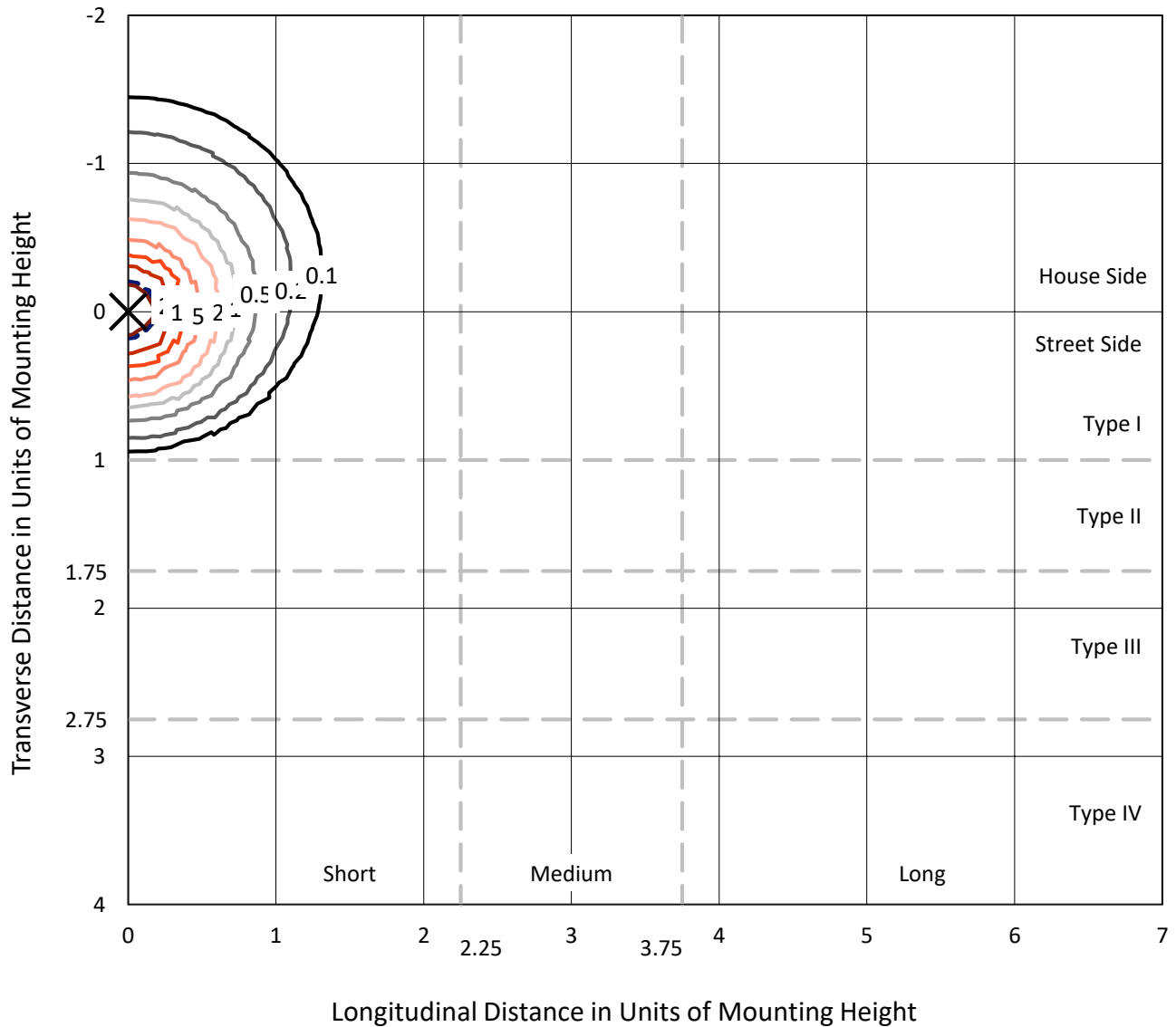


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### Iso-Footcandle Lines of Horizontal Illumination

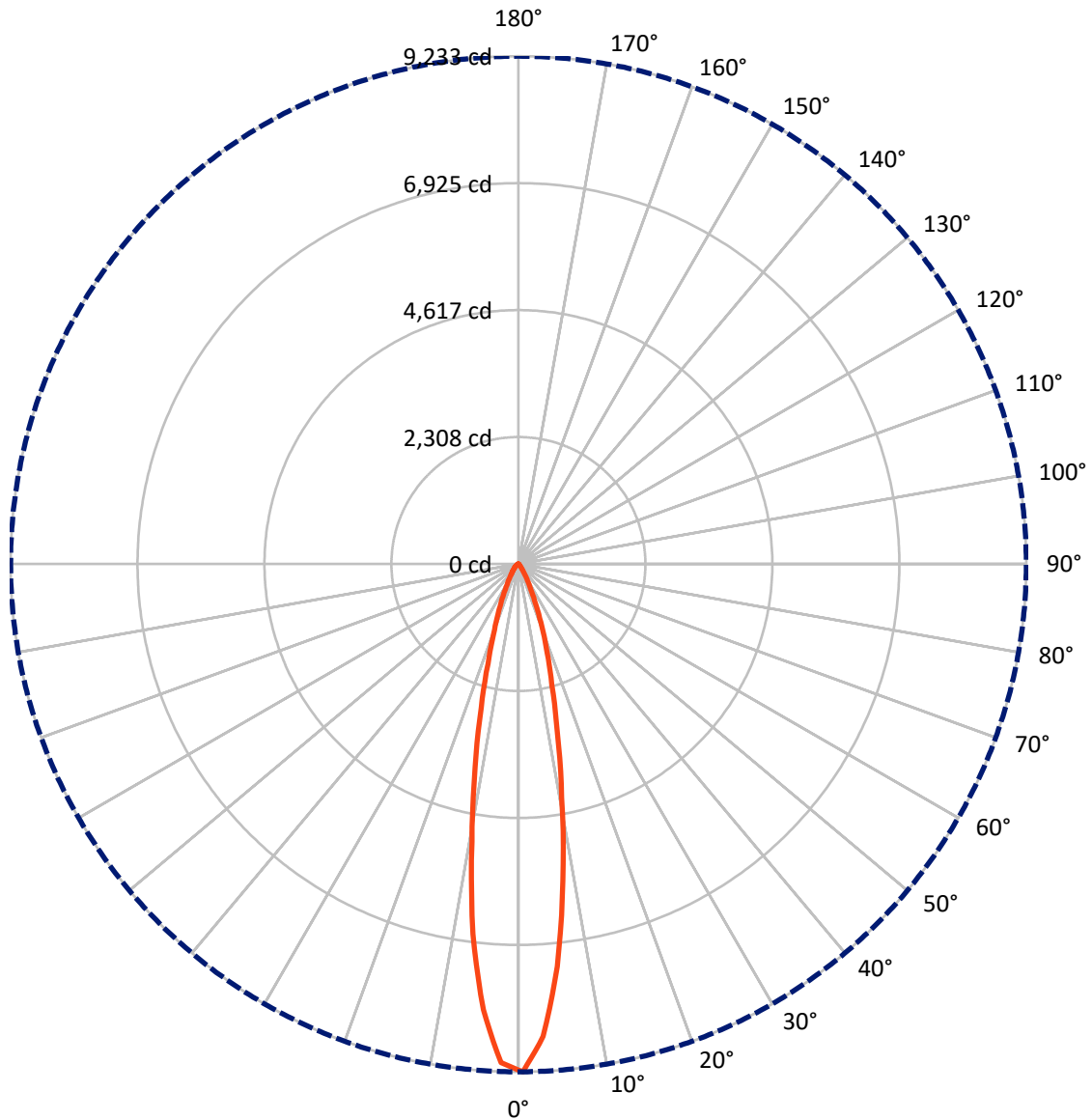
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 92.3 fc  
 Type I - 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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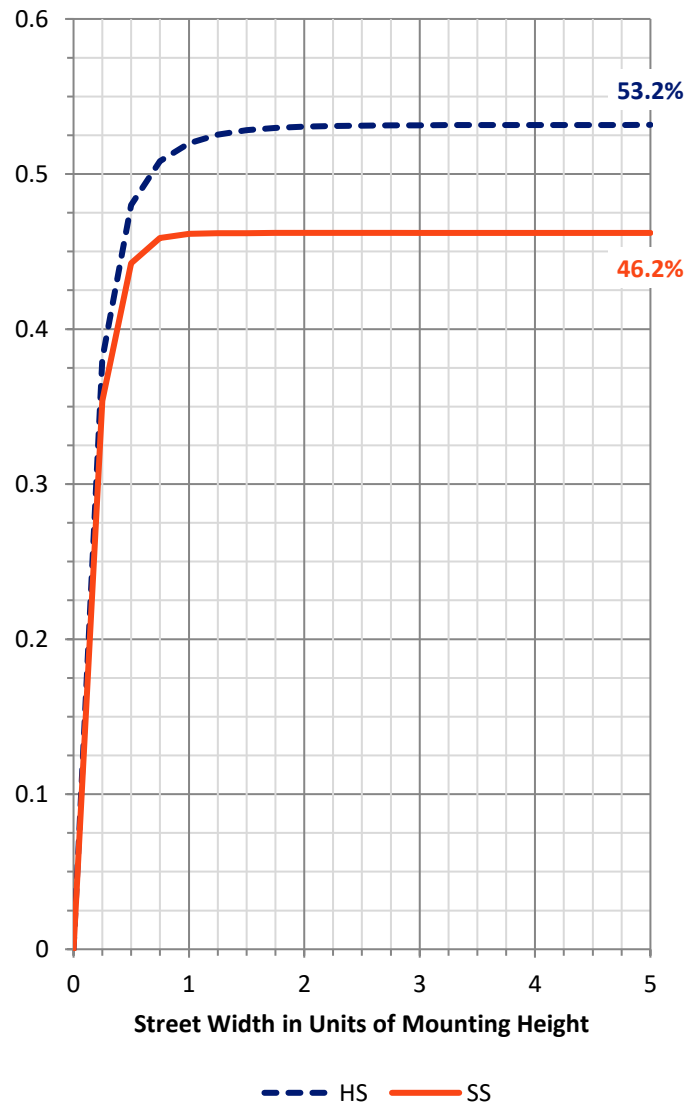
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1025.9	0.0	1025.9
	% Fixture	53.9	0.0	53.9
<b>Street Side</b>	Lumens	876.2	0.0	876.2
	% Fixture	46.1	0.0	46.1
<b>Total</b>	Lumens	1902.1	0.0	1902.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	649.7	34.2
10°-20°	713.1	37.5
20°-30°	321.8	16.9
30°-40°	125.3	6.6
40°-50°	55.6	2.9
50°-60°	26.5	1.4
60°-70°	8.4	0.4
70°-80°	1.3	0.1
80°-90°	0.5	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°	1902.1	100.0
0°-180°	1902.1	100.0



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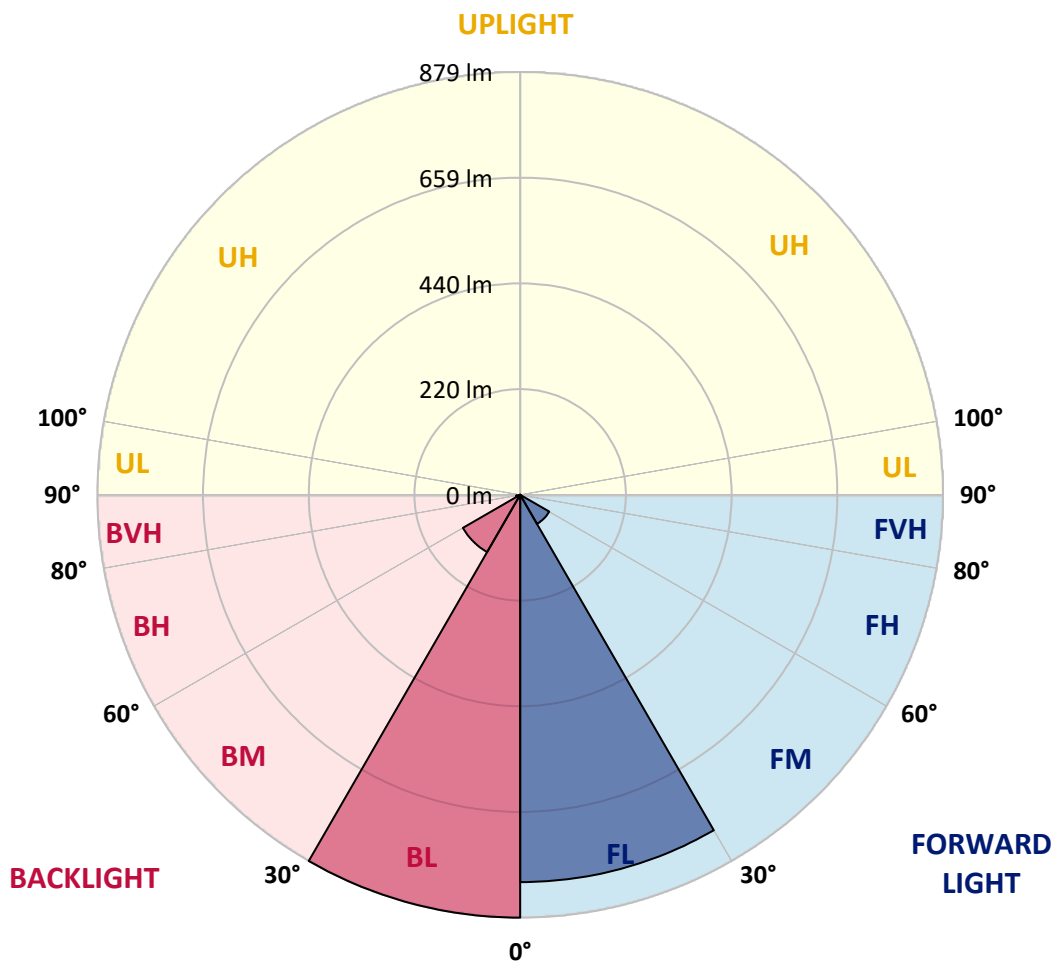
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	805.4	42.3			
FM (30°-60°)	69.8	3.7			
FH (60°-80°)	1.0	0.1			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	879.3	46.2	B2/1000		
BM (30°-60°)	137.5	7.2	B0/220		
BH (60°-80°)	8.6	0.5	B0/110		G0/110
BVH (80°-90°)	0.5	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 I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	9233.1	9233.1	9233.1	9233.1	9233.1	9233.1	9233.1	9233.1	9233.1
2.5°	8601.7	8706.6	8771.2	8829.4	8856.9	8976.6	9029.7	9039.9	9071.2
5°	7353.6	7541.7	7618.4	7641.5	7845.5	7996.5	8124.5	8200.6	8129.6
7.5°	5817.0	5952.0	6156.7	6316.6	6402.3	6537.3	6705.6	6795.8	6780.4
10°	4316.8	4428.2	4522.2	4611.1	4843.3	4909.2	5090.9	5215.0	5117.8
12.5°	3132.7	3208.2	3260.7	3377.7	3520.4	3530.6	3672.6	3764.8	3778.2
15°	2272.9	2377.2	2343.3	2394.5	2464.2	2493.6	2604.3	2663.8	2695.1
17.5°	1690.8	1705.5	1724.0	1718.9	1744.5	1781.0	1859.7	1860.9	1892.9
20°	1212.3	1251.9	1239.8	1274.3	1288.4	1296.7	1360.7	1346.6	1343.4
22.5°	829.7	839.3	896.2	930.2	942.3	955.1	985.8	967.9	985.2
25°	561.0	578.3	607.7	655.1	689.6	703.7	706.9	719.0	743.4
27.5°	390.2	394.1	418.4	469.6	504.1	519.5	526.5	531.6	532.9
30°	262.3	268.0	293.0	322.4	371.7	387.0	398.5	406.2	396.6
32.5°	163.1	180.4	204.1	232.9	268.7	294.9	305.1	303.2	311.5
35°	119.0	119.6	147.8	176.6	199.6	230.3	232.9	234.8	234.1
37.5°	71.0	76.8	101.7	127.3	154.2	180.4	188.1	189.4	189.4
40°	42.9	50.5	67.2	95.3	122.2	141.4	152.9	157.4	158.0
42.5°	27.5	32.0	50.5	72.9	97.9	115.1	126.7	129.9	129.2
45°	16.0	17.9	32.6	54.4	79.3	94.0	104.3	108.1	108.1
47.5°	6.4	9.0	20.5	40.3	64.0	80.0	89.6	92.1	93.4
50°	2.6	3.2	12.8	30.7	51.2	68.5	74.8	77.4	78.0
52.5°	1.9	1.9	5.8	21.1	40.9	56.9	64.0	67.2	66.5
55°	1.9	1.9	3.2	14.7	30.1	45.4	53.7	56.3	55.0
57.5°	1.9	1.9	2.6	9.0	23.0	35.2	40.9	44.1	44.8
60°	1.3	1.3	1.9	5.1	15.4	26.2	32.6	34.5	35.8
62.5°	0.6	1.3	1.3	2.6	10.2	18.6	23.7	25.6	25.6
65°	0.0	0.6	1.3	1.9	5.8	11.5	16.0	17.3	17.9
67.5°	0.0	0.0	0.6	1.3	2.6	7.0	9.0	10.2	10.9
70°	0.0	0.0	0.6	0.6	1.9	3.2	5.1	5.8	5.8
72.5°	0.0	0.0	0.0	0.6	1.3	1.9	2.6	3.2	3.2
75°	0.0	0.0	0.0	0.6	0.6	1.3	1.9	1.9	2.6
77.5°	0.0	0.0	0.0	0.0	0.6	1.3	1.9	1.9	1.9
80°	0.0	0.0	0.0	0.0	0.6	1.3	1.3	1.9	1.9
82.5°	0.0	0.0	0.0	0.0	0.6	0.6	1.3	1.3	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.6	1.3	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)