

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: P295399

Luminaire Tested: **TCRL15W(7040-7050)-VISOR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295399  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-140-15)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: TCRL15W(7040-7050)-VISOR  
Description: TRACER LARGE, VISOR NEMA 5x5  
Light Source: (16) 4000K&5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1575.7 lumens  
Efficiency: N/A  
Efficacy: 131.3 lumens/watt  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
IES Classification: Type I - Short - Full Cutoff  
BUG Rating: B2 - U0 - G0

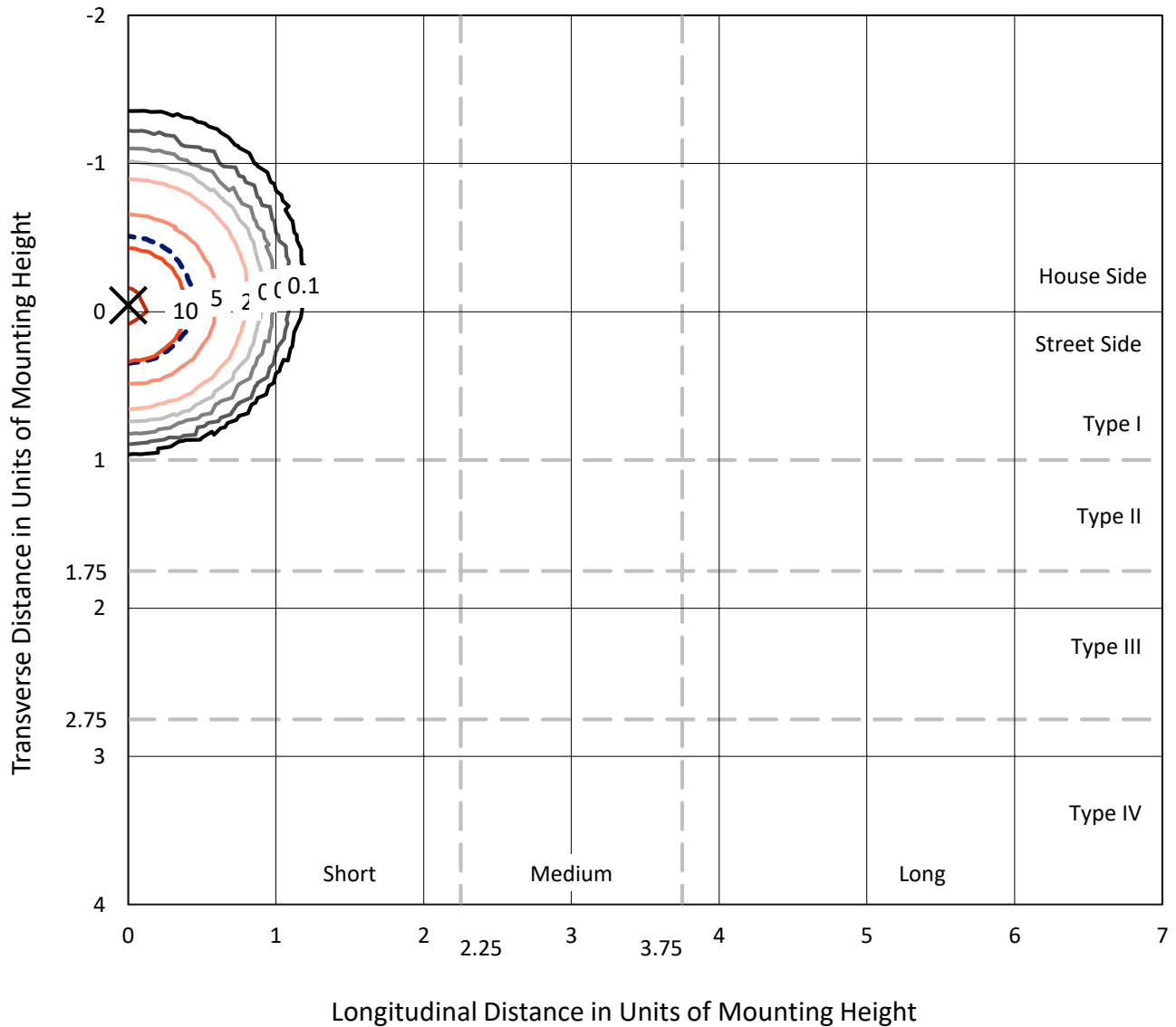
Input Watts (W): 12  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

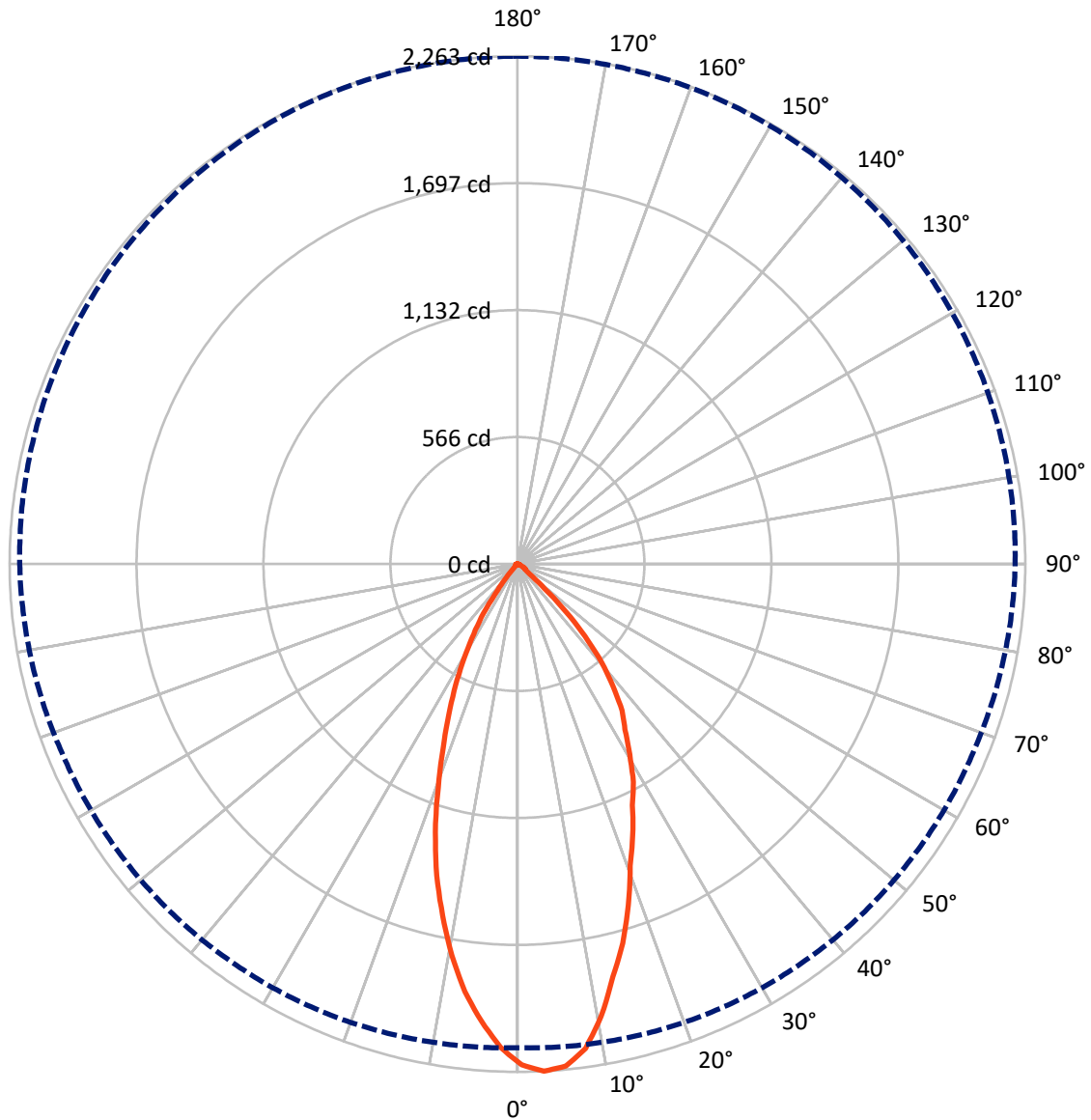
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.3 fc  
 Type I - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 180-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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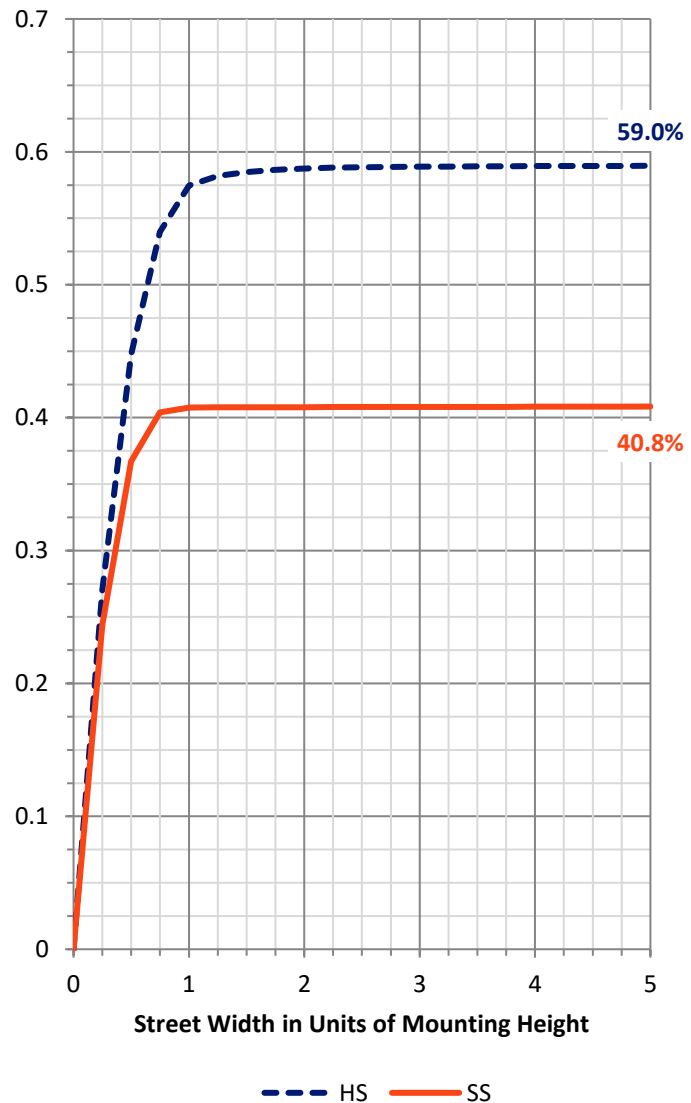
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	937.0	0.0	937.0
	% Fixture	59.5	0.0	59.5
<b>Street Side</b>	Lumens	638.7	0.0	638.7
	% Fixture	40.5	0.0	40.5
<b>Total</b>	Lumens	1575.7	0.0	1575.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.3	12.5
10°-20°	436.8	27.7
20°-30°	458.8	29.1
30°-40°	341.0	21.6
40°-50°	114.3	7.3
50°-60°	18.0	1.1
60°-70°	6.7	0.4
70°-80°	2.6	0.2
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°	1575.7	100.0
0°-180°	1575.7	100.0



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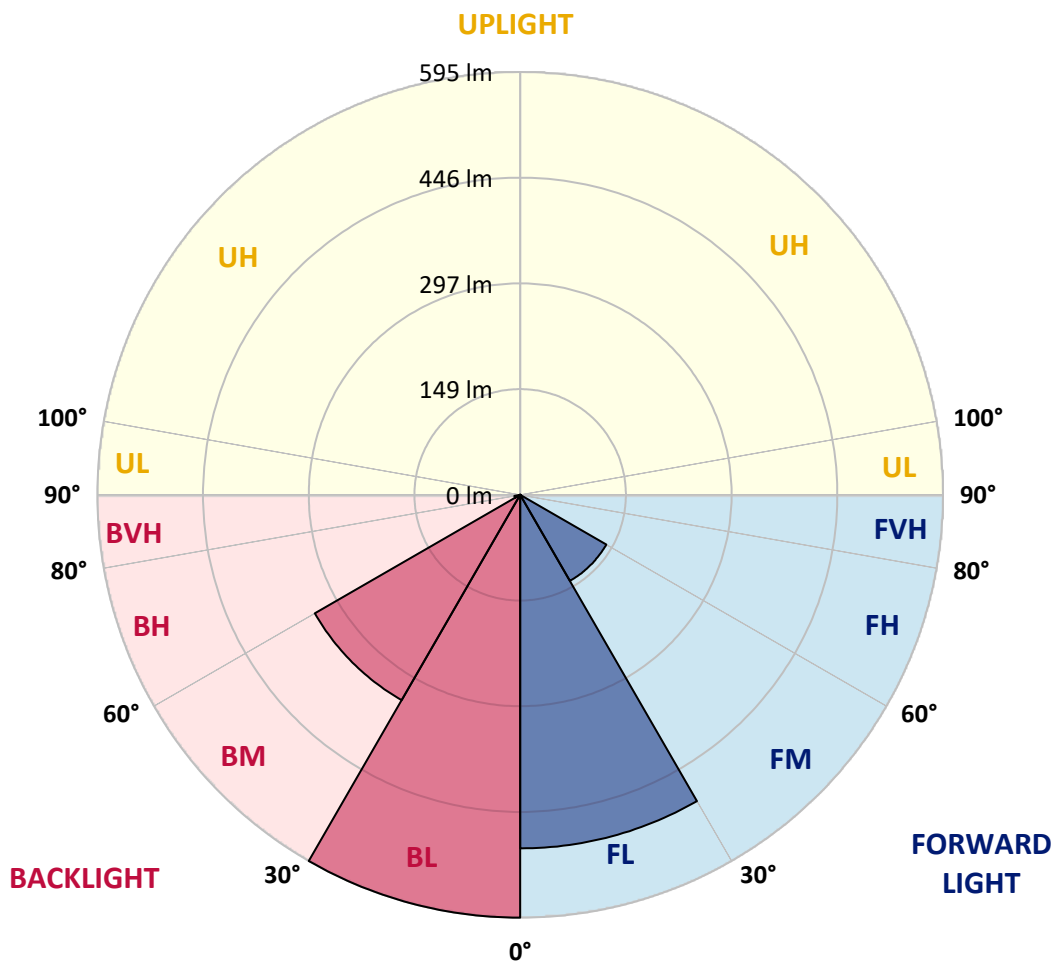
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	497.3	31.6			
FM	(30°-60°)	139.9	8.9			
FH	(60°-80°)	1.1	0.1			G0/660
FVH	(80°-90°)	0.5	0.0			G0/10
BL	(0°-30°)	594.7	37.7	B2/1000		
BM	(30°-60°)	333.5	21.2	B1/1000		
BH	(60°-80°)	8.2	0.5	B0/110		G0/110
BVH	(80°-90°)	0.7	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°	2232.2	2232.2	2232.2	2232.2	2232.2	2232.2	2232.2	2232.2	2232.2
2.5°	2155.4	2175.6	2189.3	2197.4	2218.1	2232.7	2245.9	2258.0	2263.1
5°	2044.2	2054.8	2074.5	2108.4	2159.9	2178.7	2220.6	2224.7	2247.4
7.5°	1919.3	1917.8	1918.3	1976.0	2031.6	2059.9	2125.1	2166.0	2179.7
10°	1768.7	1765.7	1784.9	1814.2	1861.2	1912.3	1978.5	2038.1	2049.8
12.5°	1601.9	1609.5	1618.6	1667.6	1725.2	1760.6	1821.3	1870.8	1888.0
15°	1435.1	1442.2	1463.9	1512.4	1571.6	1603.4	1679.2	1733.8	1754.5
17.5°	1251.1	1268.8	1303.1	1359.8	1415.4	1442.2	1526.6	1580.2	1599.9
20°	1058.5	1083.8	1138.4	1232.4	1295.6	1324.4	1362.3	1419.4	1435.1
22.5°	883.6	885.1	978.6	1104.5	1161.1	1204.6	1249.6	1289.5	1315.3
25°	737.5	760.8	825.5	949.3	1064.1	1102.0	1141.9	1200.0	1190.4
27.5°	605.6	637.9	714.3	810.3	951.8	995.3	1030.7	1079.2	1100.4
30°	480.7	515.6	585.9	696.1	817.4	892.7	922.5	975.6	985.7
32.5°	368.0	381.6	462.5	575.2	698.6	786.0	839.1	876.5	880.1
35°	267.4	280.0	350.8	479.2	571.7	684.4	739.5	775.9	803.7
37.5°	144.1	163.3	250.7	350.8	469.6	583.3	642.0	681.9	692.5
40°	76.3	90.5	134.5	234.0	341.2	459.0	532.8	576.3	581.3
42.5°	27.8	29.3	59.1	125.9	198.7	309.9	399.3	441.8	440.8
45°	13.6	13.6	33.9	59.6	105.1	176.9	254.3	282.1	307.3
47.5°	1.5	1.5	7.1	26.8	50.5	74.8	117.3	145.1	161.3
50°	0.0	0.0	0.0	10.6	27.8	46.0	59.6	65.2	71.3
52.5°	0.0	0.0	0.0	7.1	23.3	32.4	43.5	51.1	52.1
55°	0.0	0.0	1.0	4.5	12.1	32.9	37.4	47.0	39.9
57.5°	0.0	1.5	0.0	3.5	14.7	23.3	32.4	41.4	41.4
60°	0.0	1.0	0.0	0.0	7.1	16.7	25.3	30.3	32.9
62.5°	0.0	0.0	0.0	0.0	0.0	8.6	19.7	22.7	29.3
65°	0.0	1.5	1.5	0.0	4.5	6.1	18.2	23.3	13.6
67.5°	0.0	0.0	0.0	0.0	1.0	1.5	7.1	8.6	10.6
70°	0.0	1.5	1.0	2.5	2.5	2.5	9.6	9.6	12.1
72.5°	0.0	1.0	0.0	1.5	0.0	0.0	4.5	1.5	3.5
75°	0.0	1.0	0.0	1.0	1.5	1.0	6.1	5.1	1.5
77.5°	3.5	5.1	1.0	0.0	1.0	1.5	5.1	7.1	0.0
80°	7.1	1.5	2.5	1.5	2.5	3.5	7.1	1.5	0.0
82.5°	1.5	1.0	0.0	0.0	0.0	0.0	2.5	4.5	0.0
85°	3.5	2.5	2.5	0.0	1.0	0.0	2.5	1.5	1.5
87.5°	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)