

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: P295395

Luminaire Tested: **TCRL15M(7040-7050)-VISOR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295395  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-140-14)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: TCRL15M(7040-7050)-VISOR  
Description: TRACER LARGE, VISOR NEMA 4x4  
Light Source: (16) 4000K&5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1572.1 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
IES Classification: Type I - Short - Full Cutoff  
BUG Rating: B2 - U0 - G0

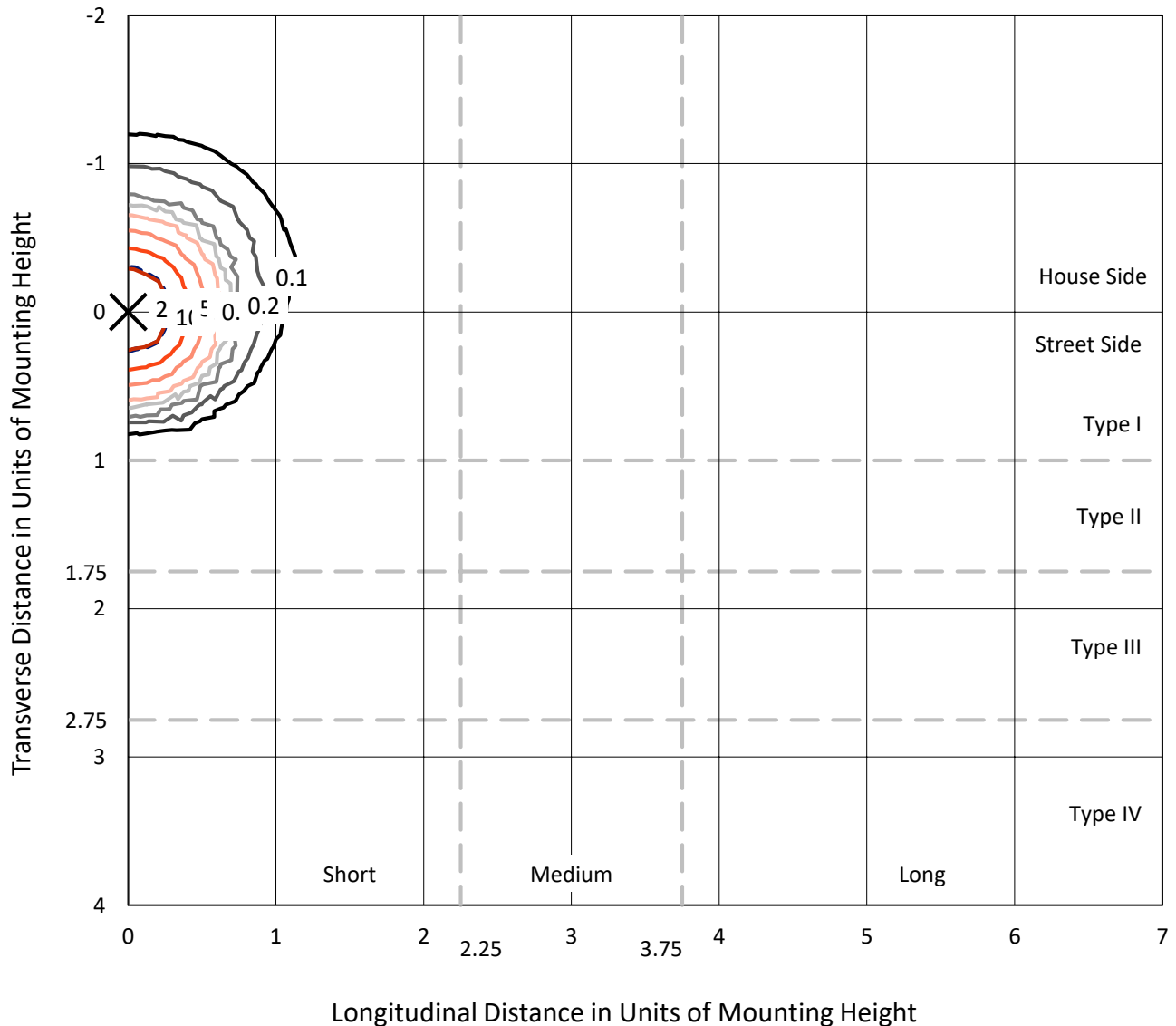
Input Watts (W): 12  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P295395  
 CATALOG NUMBER: TCRL15M(7040-7050)-VISOR

### Iso-Footcandle Lines of Horizontal Illumination

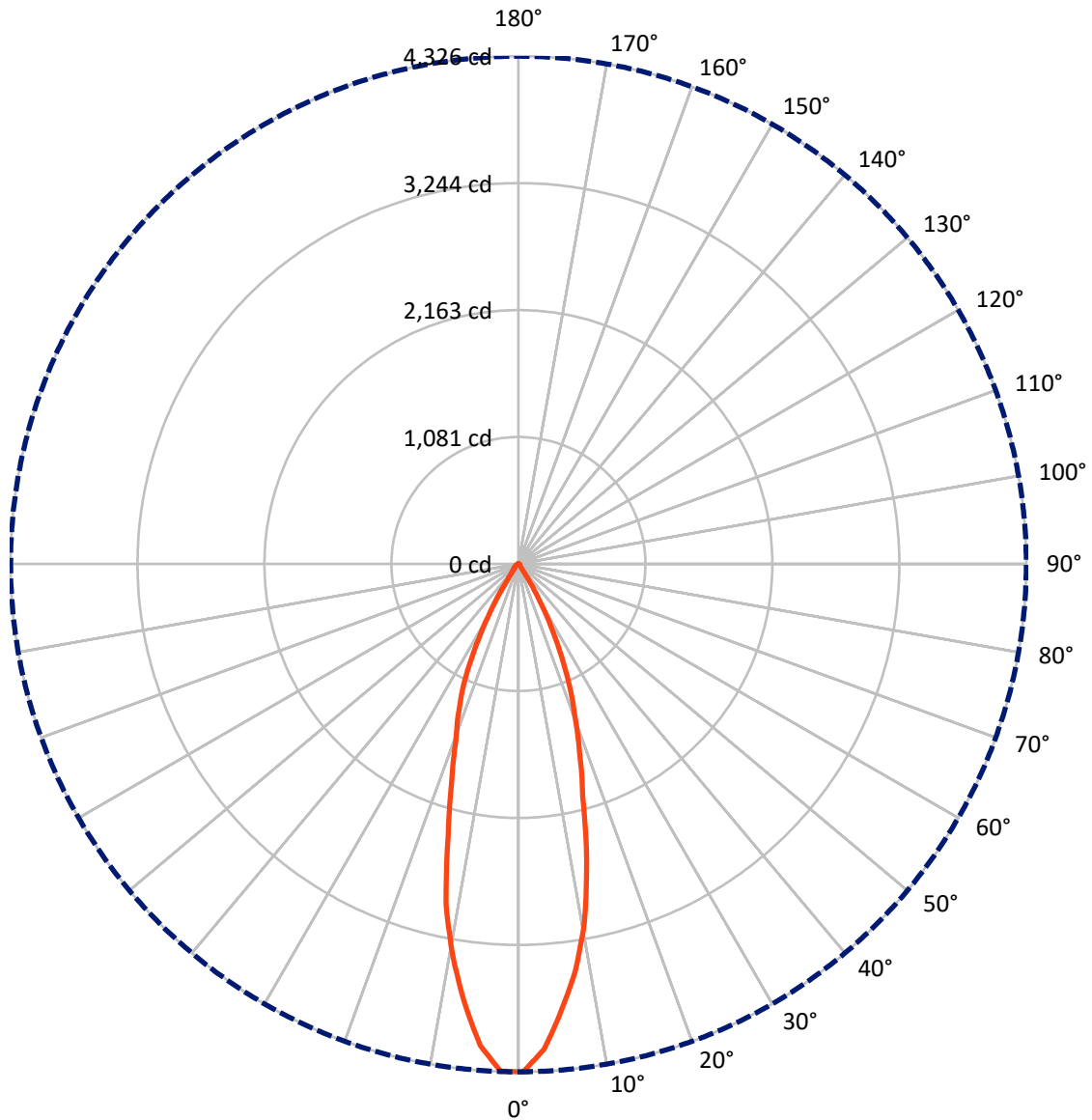
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 43.3 fc  
 Type I - Short - Full Cutoff

REPORT NUMBER: P295395  
CATALOG NUMBER: TCRL15M(7040-7050)-VISOR

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P295395

CATALOG NUMBER: TCRL15M(7040-7050)-VISOR

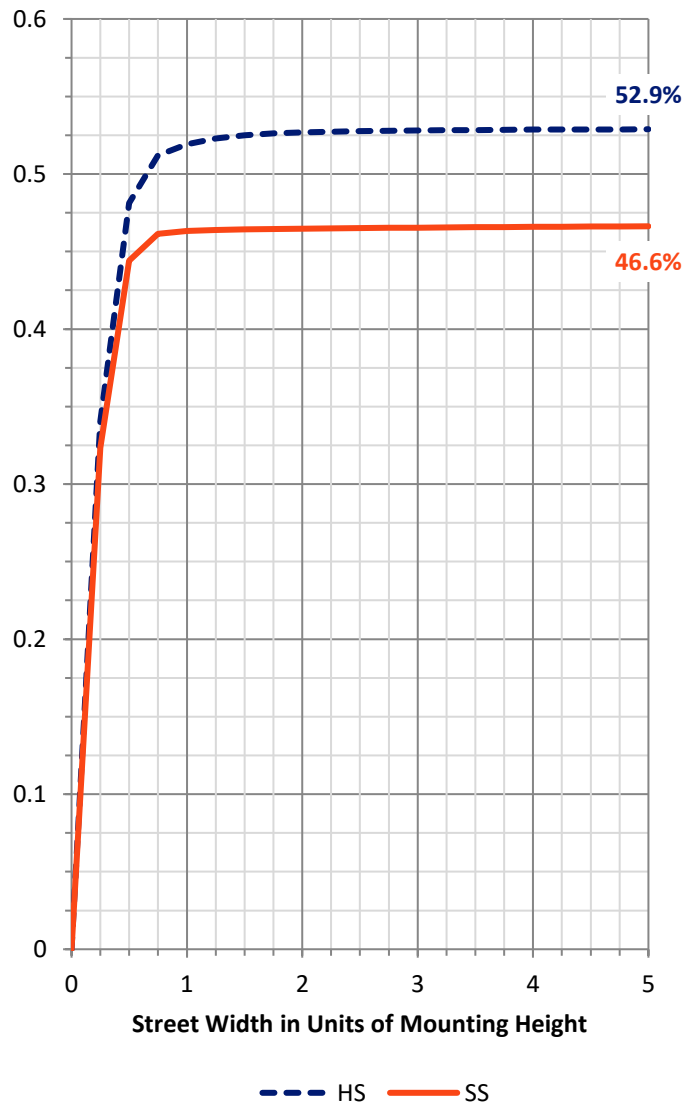
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	843.5	0.0	843.5
	% Fixture	53.7	0.0	53.7
<b>Street Side</b>	Lumens	728.6	0.0	728.6
	% Fixture	46.3	0.0	46.3
<b>Total</b>	Lumens	1572.1	0.0	1572.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	354.9	22.6
10°-20°	620.4	39.5
20°-30°	434.4	27.6
30°-40°	105.7	6.7
40°-50°	26.9	1.7
50°-60°	15.2	1.0
60°-70°	6.5	0.4
70°-80°	5.5	0.4
80°-90°	2.6	0.2
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°	1572.1	100.0
0°-180°	1572.1	100.0



REPORT NUMBER: P295395

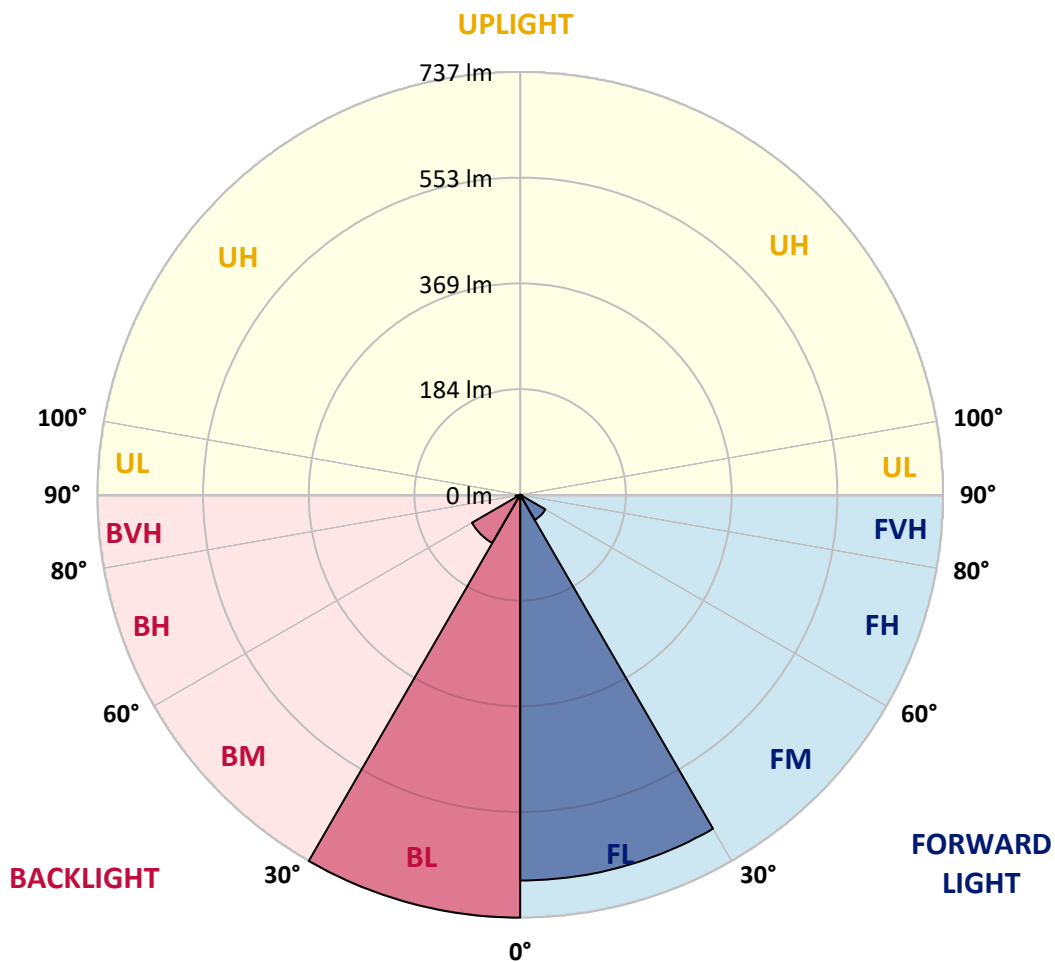
CATALOG NUMBER: TCRL15M(7040-7050)-VISOR

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	672.5	42.8			
FM	(30°-60°)	50.7	3.2			
FH	(60°-80°)	4.1	0.3			G0/660
FVH	(80°-90°)	1.5	0.1			G0/10
BL	(0°-30°)	737.3	46.9	B2/1000		
BM	(30°-60°)	97.1	6.2	B0/220		
BH	(60°-80°)	7.9	0.5	B0/110		G0/110
BVH	(80°-90°)	1.2	0.1			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°	4325.5	4325.5	4325.5	4325.5	4325.5	4325.5	4325.5	4325.5	4325.5
2.5°	4139.7	4184.5	4183.0	4183.5	4232.8	4207.7	4320.0	4283.6	4322.5
5°	3819.9	3917.4	3963.8	3917.4	3985.9	3998.8	4027.3	4075.6	4114.6
7.5°	3493.7	3554.3	3540.0	3572.0	3606.0	3640.0	3701.6	3710.0	3765.7
10°	3092.6	3131.5	3169.4	3103.4	3176.3	3218.7	3301.5	3310.9	3383.8
12.5°	2580.1	2635.8	2629.9	2651.1	2727.9	2738.8	2814.2	2878.7	2960.5
15°	2048.9	2124.8	2162.2	2162.7	2217.9	2268.7	2329.8	2352.4	2388.9
17.5°	1686.7	1711.4	1723.2	1758.7	1800.1	1843.4	1895.7	1909.9	1945.4
20°	1366.9	1381.2	1443.3	1449.2	1494.1	1513.3	1556.6	1584.2	1592.1
22.5°	1097.9	1113.1	1159.0	1210.7	1234.4	1272.3	1308.8	1318.1	1358.5
25°	813.5	826.4	886.5	944.1	1004.2	1037.8	1095.4	1118.1	1115.1
27.5°	551.4	534.6	578.5	667.2	729.8	762.3	787.4	802.7	828.8
30°	324.7	317.3	359.7	409.5	481.9	505.1	524.3	551.4	559.8
32.5°	159.2	170.0	186.3	234.6	274.0	299.6	317.8	344.9	353.8
35°	57.7	63.6	80.3	102.5	121.7	150.8	159.7	171.0	172.5
37.5°	23.7	29.6	48.3	59.1	71.9	82.8	93.1	95.6	101.5
40°	22.2	28.6	35.5	51.7	63.6	80.3	82.8	82.8	81.3
42.5°	3.4	11.8	20.2	33.0	45.8	49.3	61.1	60.1	61.1
45°	6.9	7.4	16.8	24.6	37.9	46.3	52.2	52.2	52.2
47.5°	4.9	3.4	9.4	11.8	23.7	38.9	46.3	42.4	43.9
50°	8.4	5.9	15.3	19.2	27.1	40.4	40.4	39.9	37.4
52.5°	0.0	6.9	5.9	12.8	19.2	29.6	34.5	38.9	32.0
55°	6.9	1.0	5.9	4.4	16.3	21.2	30.6	24.6	28.6
57.5°	1.5	0.0	1.5	5.9	11.8	22.2	22.7	23.7	27.1
60°	1.5	4.4	1.5	7.4	11.8	21.2	24.6	23.7	23.7
62.5°	1.5	1.0	3.4	4.4	6.9	12.8	17.7	16.3	18.7
65°	0.0	0.0	1.0	0.0	1.5	4.9	10.3	7.4	13.3
67.5°	4.9	1.0	4.9	2.5	1.5	5.9	8.4	7.4	6.9
70°	0.0	4.9	0.0	4.9	1.5	2.5	6.9	4.4	8.4
72.5°	4.9	6.9	9.4	10.3	4.9	8.4	10.3	8.4	8.4
75°	3.4	5.9	5.9	9.4	6.9	4.9	7.4	5.9	8.4
77.5°	0.0	1.5	1.0	1.5	2.5	0.0	0.0	1.0	0.0
80°	6.9	6.9	10.3	8.4	5.9	5.9	6.9	5.9	6.9
82.5°	3.4	6.9	3.4	4.4	2.5	1.0	3.4	2.5	6.9
85°	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.5	3.4
87.5°	0.0	1.5	2.5	2.5	3.4	1.0	1.0	2.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)