

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: P295400

Luminaire Tested: **TCRL20M(7030)-VISOR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295400  
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: TCRL20M(7030)-VISOR  
Description: TRACER LARGE, VISOR NEMA 4x4  
Light Source: (16) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2064.9 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
IES Classification: Type I - Short - Full Cutoff  
BUG Rating: B2 - U0 - G0

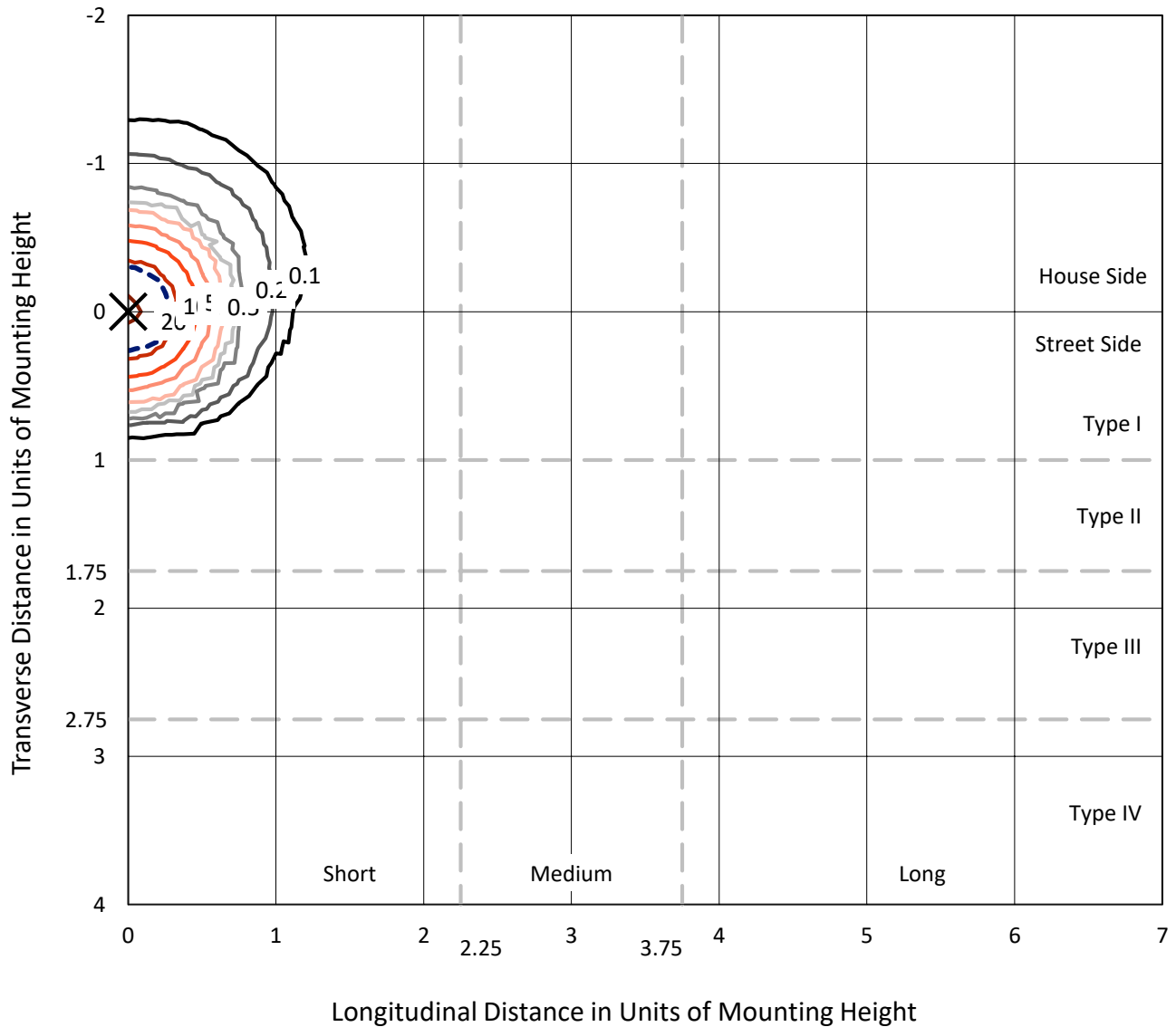
Input Watts (W): 17.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P295400  
 CATALOG NUMBER: TCRL20M(7030)-VISOR

### Iso-Footcandle Lines of Horizontal Illumination

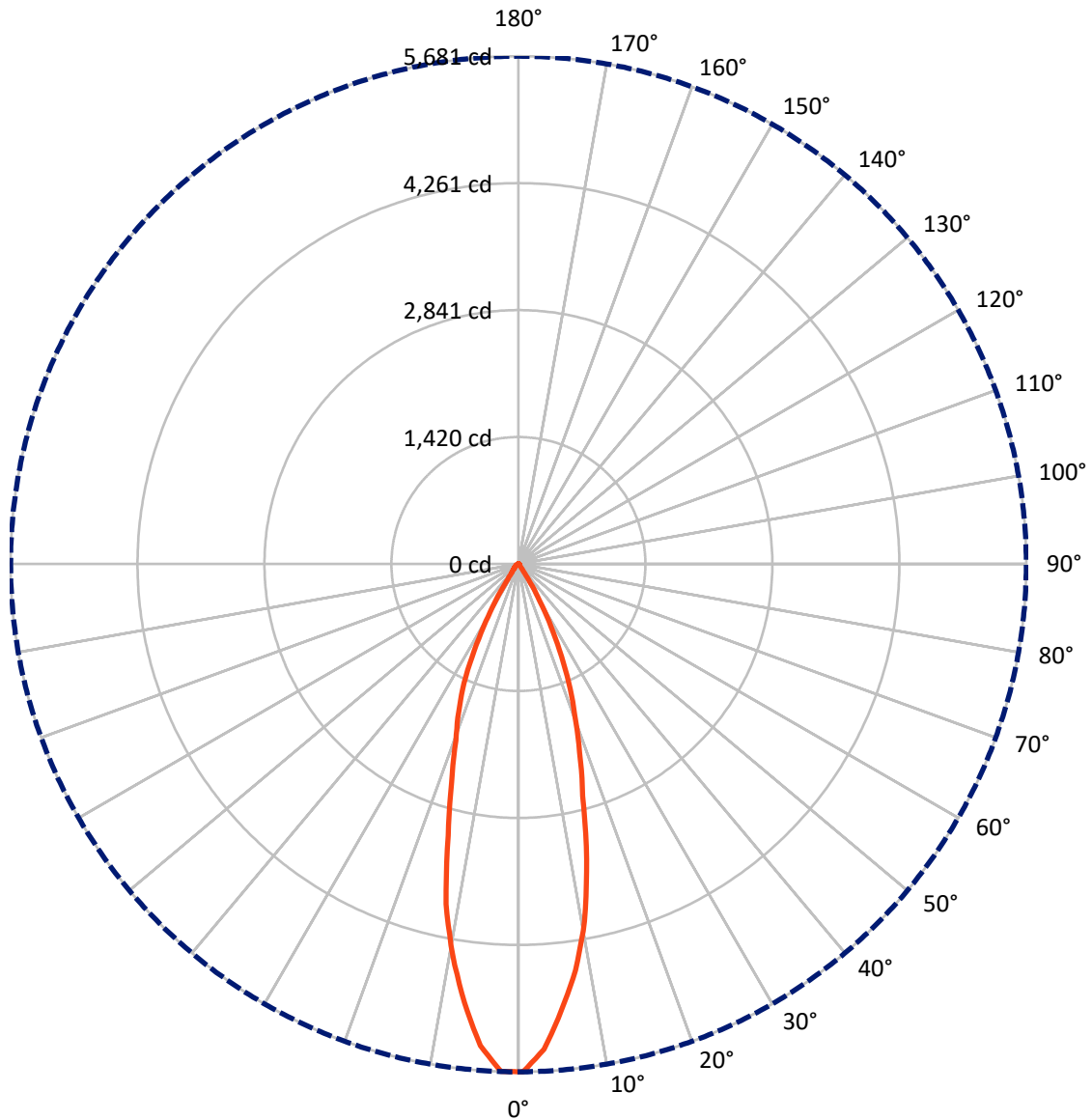
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 56.8 fc  
 Type I - Short - Full Cutoff

REPORT NUMBER: P295400  
CATALOG NUMBER: TCRL20M(7030)-VISOR

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P295400

CATALOG NUMBER: TCRL20M(7030)-VISOR

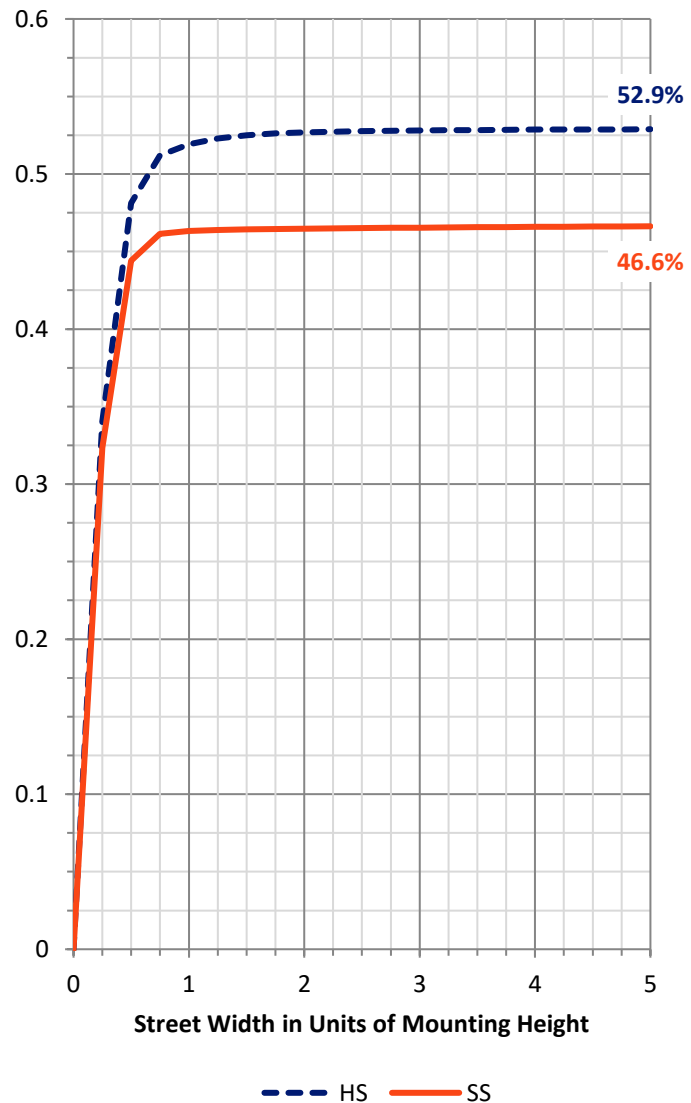
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1107.9	0.0	1107.9
	% Fixture	53.7	0.0	53.7
<b>Street Side</b>	Lumens	957.0	0.0	957.0
	% Fixture	46.3	0.0	46.3
<b>Total</b>	Lumens	2064.9	0.0	2064.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	466.2	22.6
10°-20°	814.8	39.5
20°-30°	570.6	27.6
30°-40°	138.8	6.7
40°-50°	35.3	1.7
50°-60°	20.0	1.0
60°-70°	8.5	0.4
70°-80°	7.3	0.4
80°-90°	3.4	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°	2064.9	100.0
0°-180°	2064.9	100.0



REPORT NUMBER: P295400

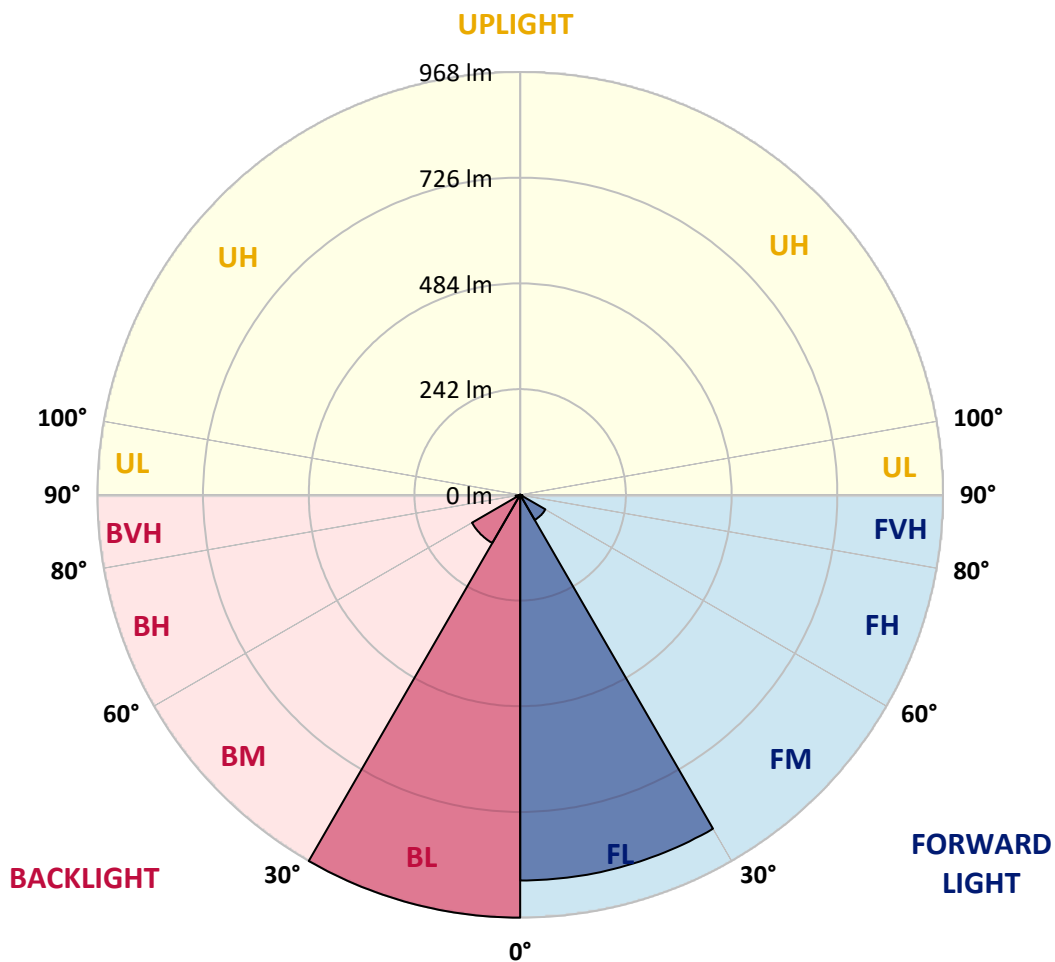
CATALOG NUMBER: TCRL20M(7030)-VISOR

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	883.2	42.8			
FM	(30°-60°)	66.5	3.2			
FH	(60°-80°)	5.3	0.3			G0/660
FVH	(80°-90°)	1.9	0.1			G0/10
BL	(0°-30°)	968.4	46.9	B2/1000		
BM	(30°-60°)	127.6	6.2	B0/220		
BH	(60°-80°)	10.4	0.5	B0/110		G0/110
BVH	(80°-90°)	1.5	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°	5681.3	5681.3	5681.3	5681.3	5681.3	5681.3	5681.3	5681.3	5681.3
2.5°	5437.3	5496.2	5494.3	5494.9	5559.7	5526.7	5674.2	5626.3	5677.5
5°	5017.3	5145.4	5206.3	5145.4	5235.4	5252.2	5289.8	5353.2	5404.3
7.5°	4588.8	4668.4	4649.7	4691.7	4736.4	4781.1	4862.0	4873.0	4946.1
10°	4062.0	4113.1	4163.0	4076.2	4172.0	4227.7	4336.4	4348.7	4444.5
12.5°	3388.9	3462.0	3454.2	3482.1	3583.0	3597.3	3696.3	3781.1	3888.5
15°	2691.2	2790.8	2840.0	2840.7	2913.2	2979.8	3060.1	3089.9	3137.8
17.5°	2215.5	2247.8	2263.3	2309.9	2364.3	2421.3	2489.9	2508.6	2555.2
20°	1795.4	1814.2	1895.7	1903.5	1962.4	1987.6	2044.6	2080.8	2091.2
22.5°	1442.0	1462.1	1522.3	1590.2	1621.3	1671.1	1719.0	1731.3	1784.4
25°	1068.6	1085.4	1164.4	1240.1	1319.0	1363.1	1438.8	1468.6	1464.7
27.5°	724.2	702.2	759.8	876.3	958.5	1001.3	1034.3	1054.3	1088.6
30°	426.5	416.8	472.5	537.8	633.0	663.4	688.6	724.2	735.2
32.5°	209.1	223.3	244.7	308.1	359.9	393.5	417.5	453.1	464.7
35°	75.7	83.5	105.5	134.6	159.9	198.1	209.7	224.6	226.5
37.5°	31.1	38.8	63.4	77.7	94.5	108.7	122.3	125.6	133.3
40°	29.1	37.5	46.6	68.0	83.5	105.5	108.7	108.7	106.8
42.5°	4.5	15.5	26.5	43.4	60.2	64.7	80.3	79.0	80.3
45°	9.1	9.7	22.0	32.4	49.8	60.8	68.6	68.6	68.6
47.5°	6.5	4.5	12.3	15.5	31.1	51.1	60.8	55.7	57.6
50°	11.0	7.8	20.1	25.2	35.6	53.1	53.1	52.4	49.2
52.5°	0.0	9.1	7.8	16.8	25.2	38.8	45.3	51.1	42.1
55°	9.1	1.3	7.8	5.8	21.4	27.8	40.1	32.4	37.5
57.5°	1.9	0.0	1.9	7.8	15.5	29.1	29.8	31.1	35.6
60°	1.9	5.8	1.9	9.7	15.5	27.8	32.4	31.1	31.1
62.5°	1.9	1.3	4.5	5.8	9.1	16.8	23.3	21.4	24.6
65°	0.0	0.0	1.3	0.0	1.9	6.5	13.6	9.7	17.5
67.5°	6.5	1.3	6.5	3.2	1.9	7.8	11.0	9.7	9.1
70°	0.0	6.5	0.0	6.5	1.9	3.2	9.1	5.8	11.0
72.5°	6.5	9.1	12.3	13.6	6.5	11.0	13.6	11.0	11.0
75°	4.5	7.8	7.8	12.3	9.1	6.5	9.7	7.8	11.0
77.5°	0.0	1.9	1.3	1.9	3.2	0.0	0.0	1.3	0.0
80°	9.1	9.1	13.6	11.0	7.8	7.8	9.1	7.8	9.1
82.5°	4.5	9.1	4.5	5.8	3.2	1.3	4.5	3.2	9.1
85°	0.0	0.0	1.3	0.0	0.0	0.0	0.0	1.9	4.5
87.5°	0.0	1.9	3.2	3.2	4.5	1.3	1.3	3.2	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)