

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: P295405

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295405  
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: TCRL20W(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: 2141.1 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
IES Classification: Type I - Short - Full Cutoff  
BUG Rating: B2 - U0 - G0

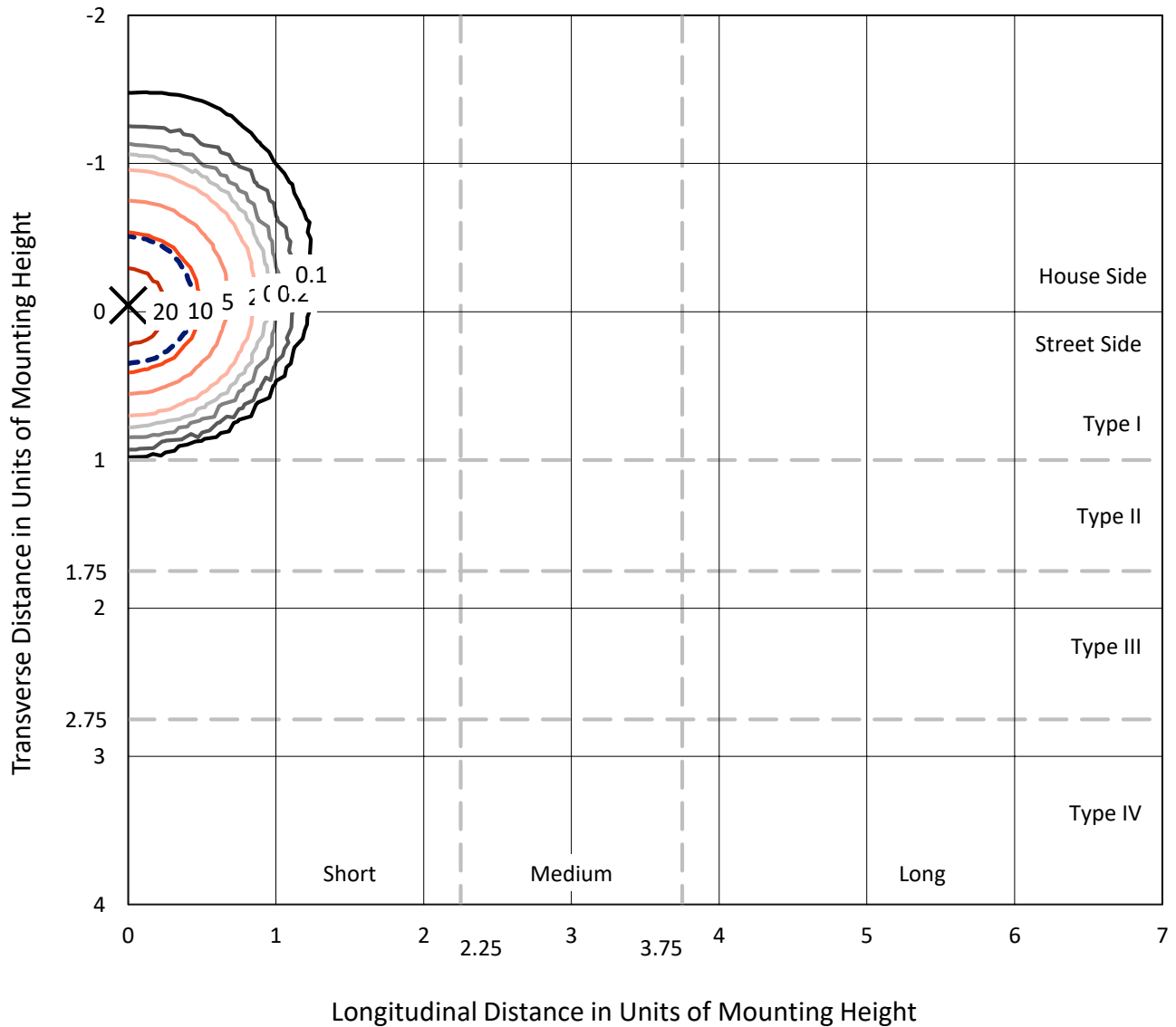
Input Watts (W): 17.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P295405  
 CATALOG NUMBER: TCRL20W(7040-7050)-VISOR

### Iso-Footcandle Lines of Horizontal Illumination

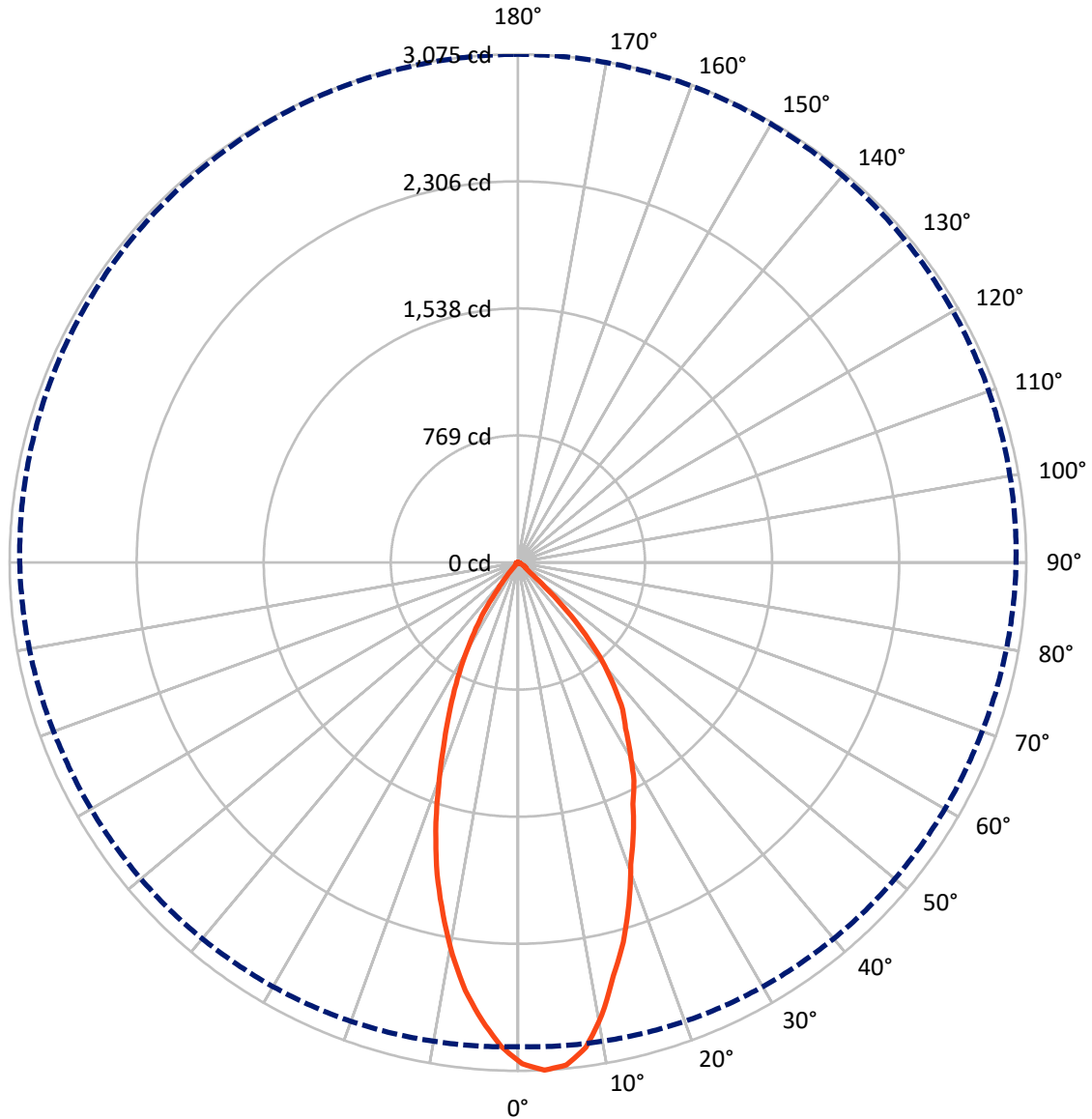
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 30.3 fc  
 Type I - Short - Full Cutoff

REPORT NUMBER: P295405  
CATALOG NUMBER: TCRL20W(7040-7050)-VISOR

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P295405  
 CATALOG NUMBER: TCRL20W(7040-7050)-VISOR

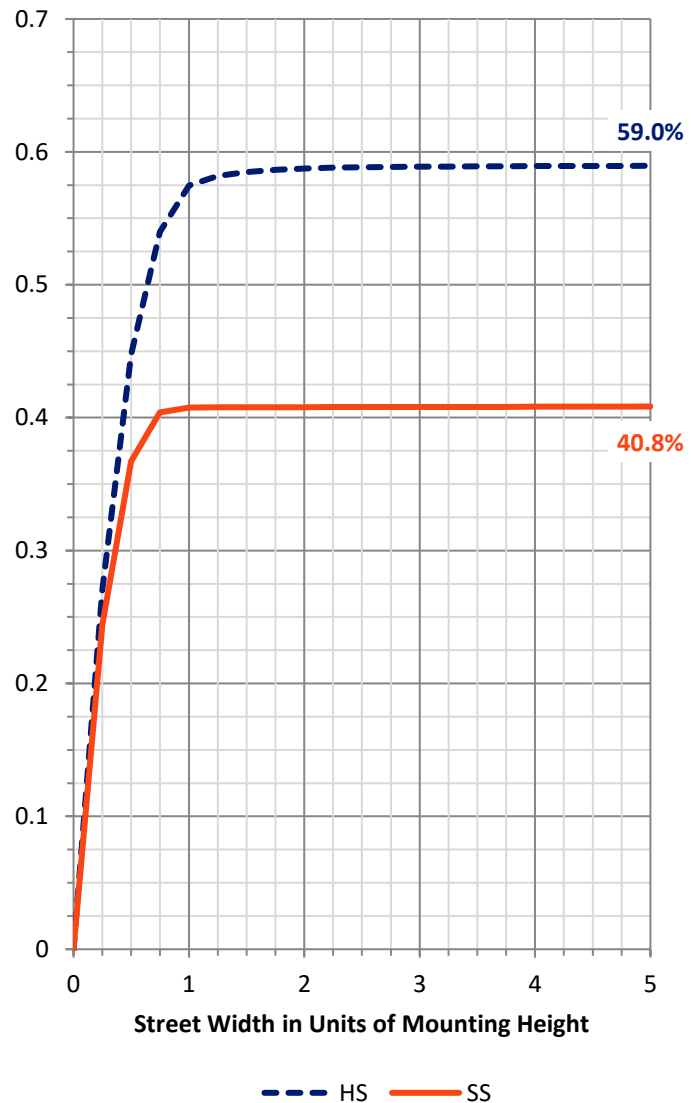
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1273.2	0.0	1273.2
	% Fixture	59.5	0.0	59.5
<b>Street Side</b>	Lumens	867.9	0.0	867.9
	% Fixture	40.5	0.0	40.5
<b>Total</b>	Lumens	2141.1	0.0	2141.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.8	12.5
10°-20°	593.5	27.7
20°-30°	623.4	29.1
30°-40°	463.4	21.6
40°-50°	155.3	7.3
50°-60°	24.4	1.1
60°-70°	9.1	0.4
70°-80°	3.6	0.2
80°-90°	1.6	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°	2141.1	100.0
0°-180°	2141.1	100.0



REPORT NUMBER: P295405

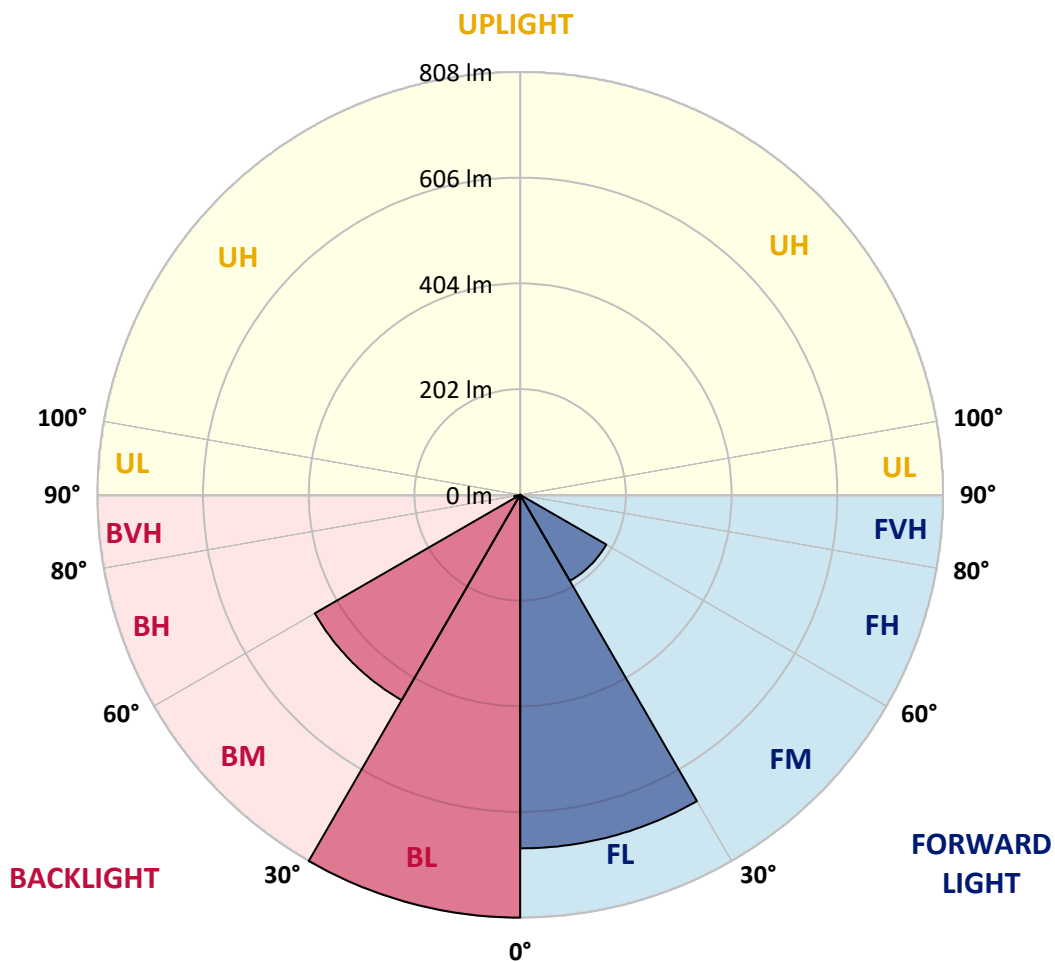
CATALOG NUMBER: TCRL20W(7040-7050)-VISOR

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	675.7	31.6			
FM (30°-60°)	190.0	8.9			
FH (60°-80°)	1.5	0.1			G0/660
FVH (80°-90°)	0.7	0.0			G0/10
BL (0°-30°)	808.0	37.7	B2/1000		
BM (30°-60°)	453.1	21.2	B1/1000		
BH (60°-80°)	11.2	0.5	B0/110		G0/110
BVH (80°-90°)	0.9	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°	3033.1	3033.1	3033.1	3033.1	3033.1	3033.1	3033.1	3033.1	3033.1
2.5°	2928.7	2956.1	2974.7	2985.7	3013.8	3033.8	3051.6	3068.1	3075.0
5°	2777.6	2792.0	2818.8	2864.8	2934.9	2960.3	3017.3	3022.8	3053.7
7.5°	2607.9	2605.9	2606.5	2684.8	2760.4	2798.9	2887.5	2943.1	2961.6
10°	2403.2	2399.1	2425.2	2465.1	2528.9	2598.3	2688.3	2769.3	2785.1
12.5°	2176.6	2186.9	2199.3	2265.9	2344.2	2392.3	2474.7	2542.0	2565.3
15°	1949.9	1959.5	1989.1	2055.0	2135.4	2178.6	2281.7	2355.8	2384.0
17.5°	1699.9	1724.0	1770.7	1847.6	1923.1	1959.5	2074.2	2147.1	2173.8
20°	1438.2	1472.6	1546.8	1674.5	1760.4	1799.5	1851.0	1928.6	1949.9
22.5°	1200.6	1202.7	1329.7	1500.7	1577.7	1636.7	1697.9	1752.1	1787.1
25°	1002.1	1033.7	1121.6	1289.9	1445.8	1497.3	1551.6	1630.5	1617.5
27.5°	822.8	866.8	970.5	1101.0	1293.3	1352.4	1400.5	1466.4	1495.2
30°	653.2	700.6	796.0	945.8	1110.6	1213.0	1253.5	1325.6	1339.3
32.5°	500.0	518.6	628.5	781.6	949.2	1068.0	1140.1	1191.0	1195.8
35°	363.3	380.5	476.7	651.1	776.8	930.0	1004.8	1054.3	1092.1
37.5°	195.7	221.8	340.7	476.7	638.1	792.6	872.3	926.5	941.0
40°	103.7	122.9	182.7	318.0	463.6	623.6	723.9	783.0	789.9
42.5°	37.8	39.8	80.4	171.0	269.9	421.0	542.6	600.3	598.9
45°	18.5	18.5	46.0	81.0	142.9	240.4	345.5	383.3	417.6
47.5°	2.1	2.1	9.6	36.4	68.7	101.7	159.3	197.1	219.1
50°	0.0	0.0	0.0	14.4	37.8	62.5	81.0	88.6	96.8
52.5°	0.0	0.0	0.0	9.6	31.6	44.0	59.1	69.4	70.7
55°	0.0	0.0	1.4	6.2	16.5	44.6	50.8	63.9	54.3
57.5°	0.0	2.1	0.0	4.8	19.9	31.6	44.0	56.3	56.3
60°	0.0	1.4	0.0	0.0	9.6	22.7	34.3	41.2	44.6
62.5°	0.0	0.0	0.0	0.0	0.0	11.7	26.8	30.9	39.8
65°	0.0	2.1	2.1	0.0	6.2	8.2	24.7	31.6	18.5
67.5°	0.0	0.0	0.0	0.0	1.4	2.1	9.6	11.7	14.4
70°	0.0	2.1	1.4	3.4	3.4	3.4	13.0	13.0	16.5
72.5°	0.0	1.4	0.0	2.1	0.0	0.0	6.2	2.1	4.8
75°	0.0	1.4	0.0	1.4	2.1	1.4	8.2	6.9	2.1
77.5°	4.8	6.9	1.4	0.0	1.4	2.1	6.9	9.6	0.0
80°	9.6	2.1	3.4	2.1	3.4	4.8	9.6	2.1	0.0
82.5°	2.1	1.4	0.0	0.0	0.0	0.0	3.4	6.2	0.0
85°	4.8	3.4	3.4	0.0	1.4	0.0	3.4	2.1	2.1
87.5°	0.0	0.0	0.0	1.4	0.0	0.0	0.0	1.4	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)