

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: P295404

Luminaire Tested: **TCRL20W(7030)-VISOR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295404  
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(7030)-VISOR  
Description: TRACER LARGE, VISOR NEMA 5x5  
Light Source: (16) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2069.7 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
IES Classification: Type I - Short - Full Cutoff  
BUG Rating: B2 - U0 - G0

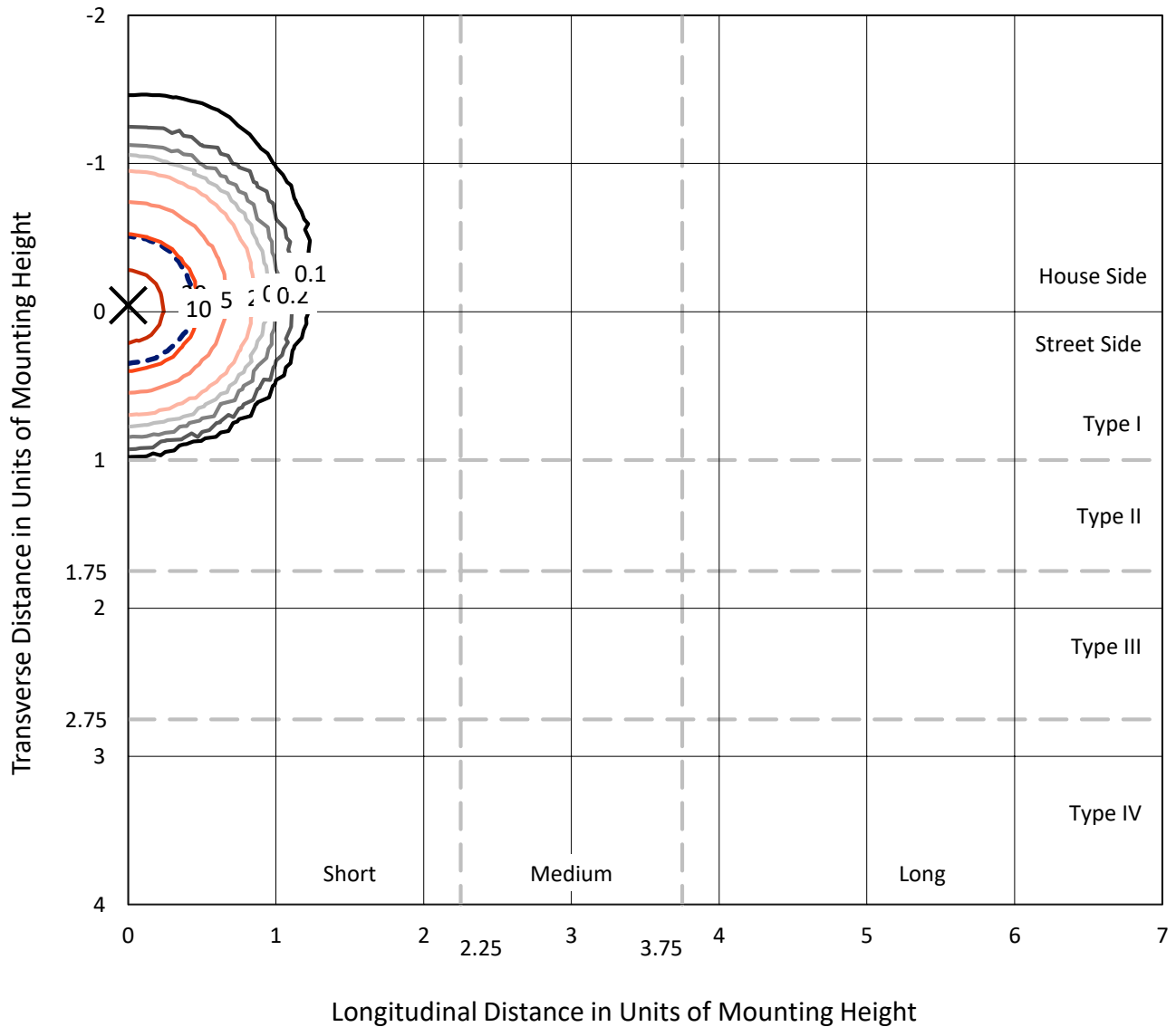
Input Watts (W): 17.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

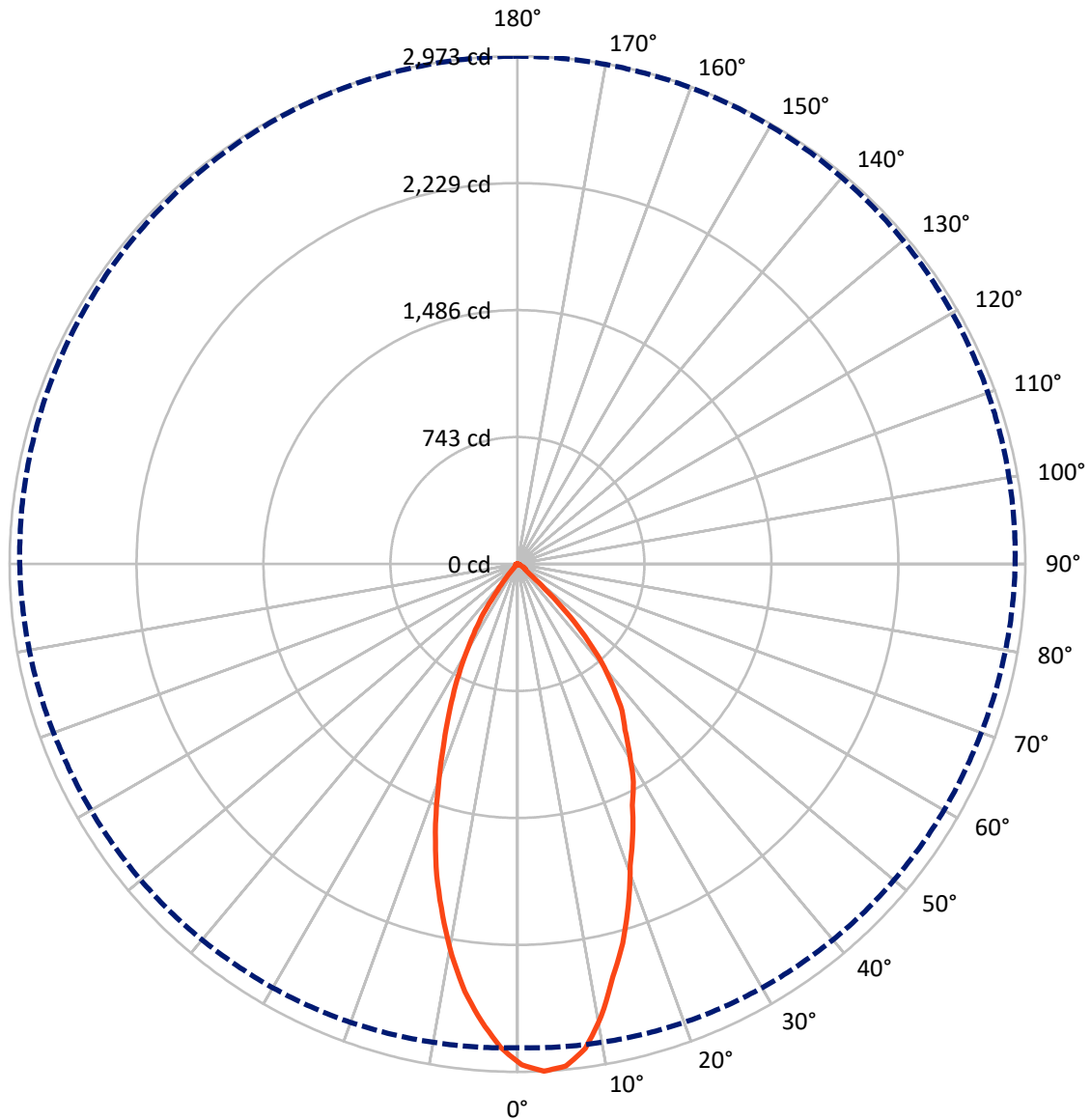
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 29.3 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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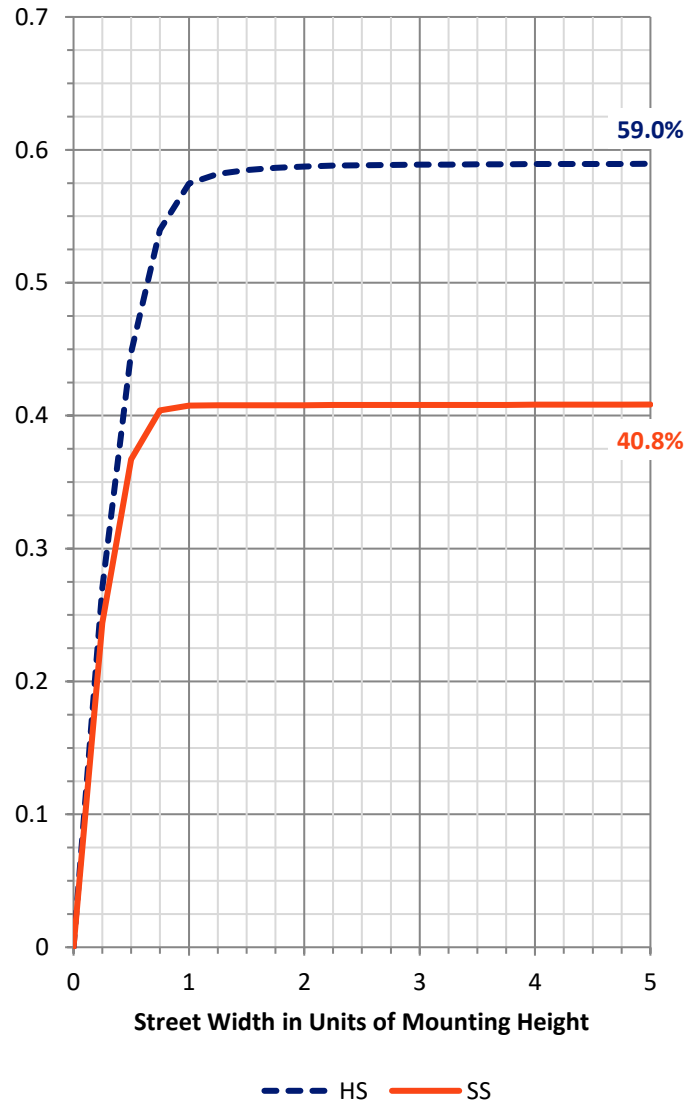
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1230.7	0.0	1230.7
	% Fixture	59.5	0.0	59.5
<b>Street Side</b>	Lumens	838.9	0.0	838.9
	% Fixture	40.5	0.0	40.5
<b>Total</b>	Lumens	2069.7	0.0	2069.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	257.9	12.5
10°-20°	573.7	27.7
20°-30°	602.6	29.1
30°-40°	448.0	21.6
40°-50°	150.1	7.3
50°-60°	23.6	1.1
60°-70°	8.8	0.4
70°-80°	3.4	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°	2069.7	100.0
0°-180°	2069.7	100.0



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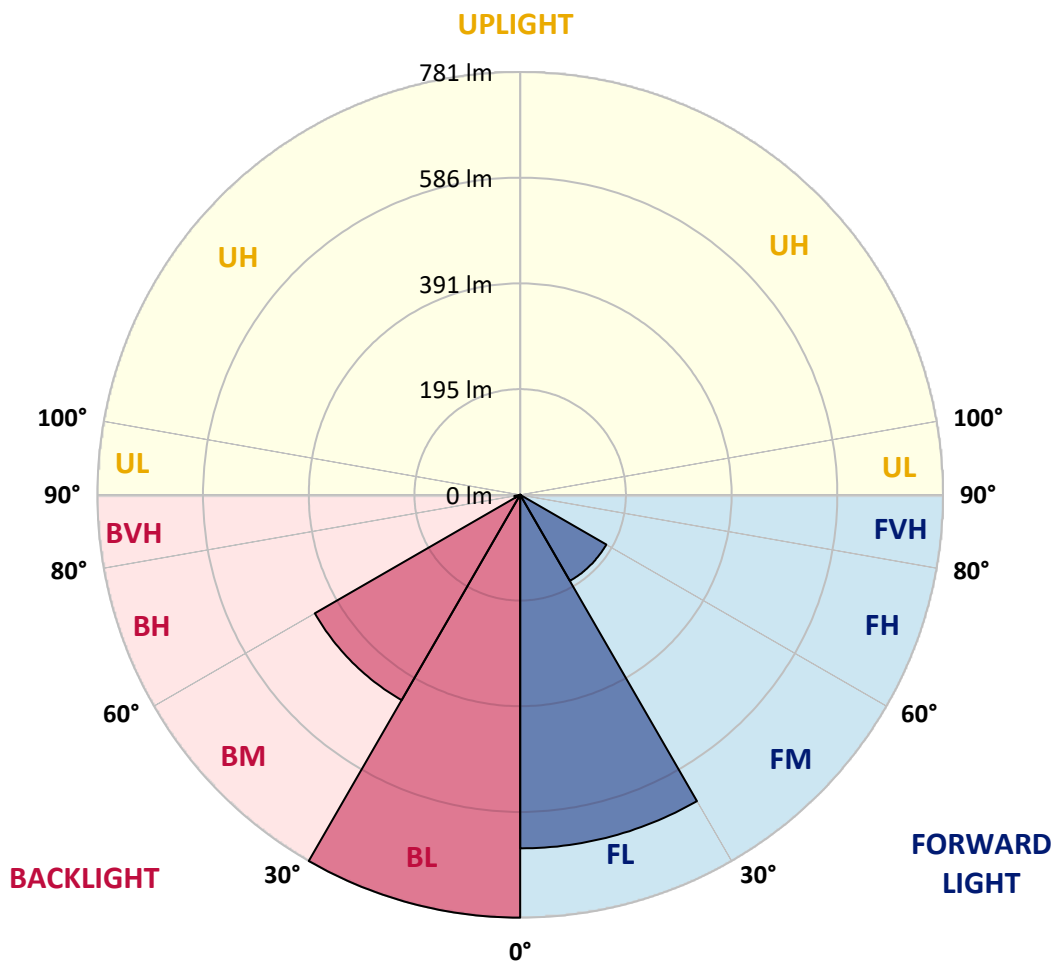
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	653.1	31.6			
FM	(30°-60°)	183.7	8.9			
FH	(60°-80°)	1.4	0.1			G0/660
FVH	(80°-90°)	0.7	0.0			G0/10
BL	(0°-30°)	781.1	37.7	B2/1000		
BM	(30°-60°)	438.0	21.2	B1/1000		
BH	(60°-80°)	10.8	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°	2932.0	2932.0	2932.0	2932.0	2932.0	2932.0	2932.0	2932.0	2932.0
2.5°	2831.0	2857.6	2875.5	2886.2	2913.4	2932.6	2949.9	2965.8	2972.5
5°	2685.0	2698.9	2724.8	2769.3	2837.0	2861.6	2916.7	2922.0	2951.9
7.5°	2521.0	2519.0	2519.7	2595.3	2668.4	2705.6	2791.2	2845.0	2862.9
10°	2323.1	2319.1	2344.4	2382.9	2444.6	2511.7	2598.7	2677.0	2692.3
12.5°	2104.0	2114.0	2125.9	2190.3	2266.0	2312.5	2392.2	2457.2	2479.8
15°	1884.9	1894.2	1922.8	1986.5	2064.2	2106.0	2205.6	2277.3	2304.5
17.5°	1643.3	1666.5	1711.6	1786.0	1859.0	1894.2	2005.1	2075.5	2101.4
20°	1390.3	1423.5	1495.2	1618.7	1701.7	1739.5	1789.3	1864.3	1884.9
22.5°	1160.6	1162.6	1285.4	1450.7	1525.1	1582.2	1641.3	1693.7	1727.6
25°	968.7	999.2	1084.2	1246.9	1397.6	1447.4	1499.8	1576.2	1563.6
27.5°	795.4	837.9	938.1	1064.3	1250.2	1307.3	1353.8	1417.5	1445.4
30°	631.4	677.2	769.5	914.2	1073.6	1172.5	1211.7	1281.4	1294.7
32.5°	483.3	501.3	607.5	755.6	917.6	1032.4	1102.1	1151.3	1155.9
35°	351.2	367.8	460.8	629.4	750.9	899.0	971.3	1019.2	1055.7
37.5°	189.2	214.5	329.3	460.8	616.8	766.2	843.2	895.7	909.6
40°	100.3	118.8	176.6	307.4	448.2	602.9	699.8	756.9	763.5
42.5°	36.5	38.5	77.7	165.3	260.9	407.0	524.5	580.3	579.0
45°	17.9	17.9	44.5	78.3	138.1	232.4	334.0	370.5	403.7
47.5°	2.0	2.0	9.3	35.2	66.4	98.3	154.0	190.6	211.8
50°	0.0	0.0	0.0	13.9	36.5	60.4	78.3	85.6	93.6
52.5°	0.0	0.0	0.0	9.3	30.5	42.5	57.1	67.1	68.4
55°	0.0	0.0	1.3	6.0	15.9	43.2	49.1	61.7	52.5
57.5°	0.0	2.0	0.0	4.6	19.3	30.5	42.5	54.4	54.4
60°	0.0	1.3	0.0	0.0	9.3	21.9	33.2	39.8	43.2
62.5°	0.0	0.0	0.0	0.0	0.0	11.3	25.9	29.9	38.5
65°	0.0	2.0	2.0	0.0	6.0	8.0	23.9	30.5	17.9
67.5°	0.0	0.0	0.0	0.0	1.3	2.0	9.3	11.3	13.9
70°	0.0	2.0	1.3	3.3	3.3	3.3	12.6	12.6	15.9
72.5°	0.0	1.3	0.0	2.0	0.0	0.0	6.0	2.0	4.6
75°	0.0	1.3	0.0	1.3	2.0	1.3	8.0	6.6	2.0
77.5°	4.6	6.6	1.3	0.0	1.3	2.0	6.6	9.3	0.0
80°	9.3	2.0	3.3	2.0	3.3	4.6	9.3	2.0	0.0
82.5°	2.0	1.3	0.0	0.0	0.0	0.0	3.3	6.0	0.0
85°	4.6	3.3	3.3	0.0	1.3	0.0	3.3	2.0	2.0
87.5°	0.0	0.0	0.0	1.3	0.0	0.0	0.0	1.3	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)