

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: P23087

Luminaire Tested: **XTOR5A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P23087
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: XTOR5A
Description: LUMARK CROSSTOUR MAXX LED 50W - 5000K, FULL CUTOFF
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4281.6 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 0.69' x L: 0.36' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

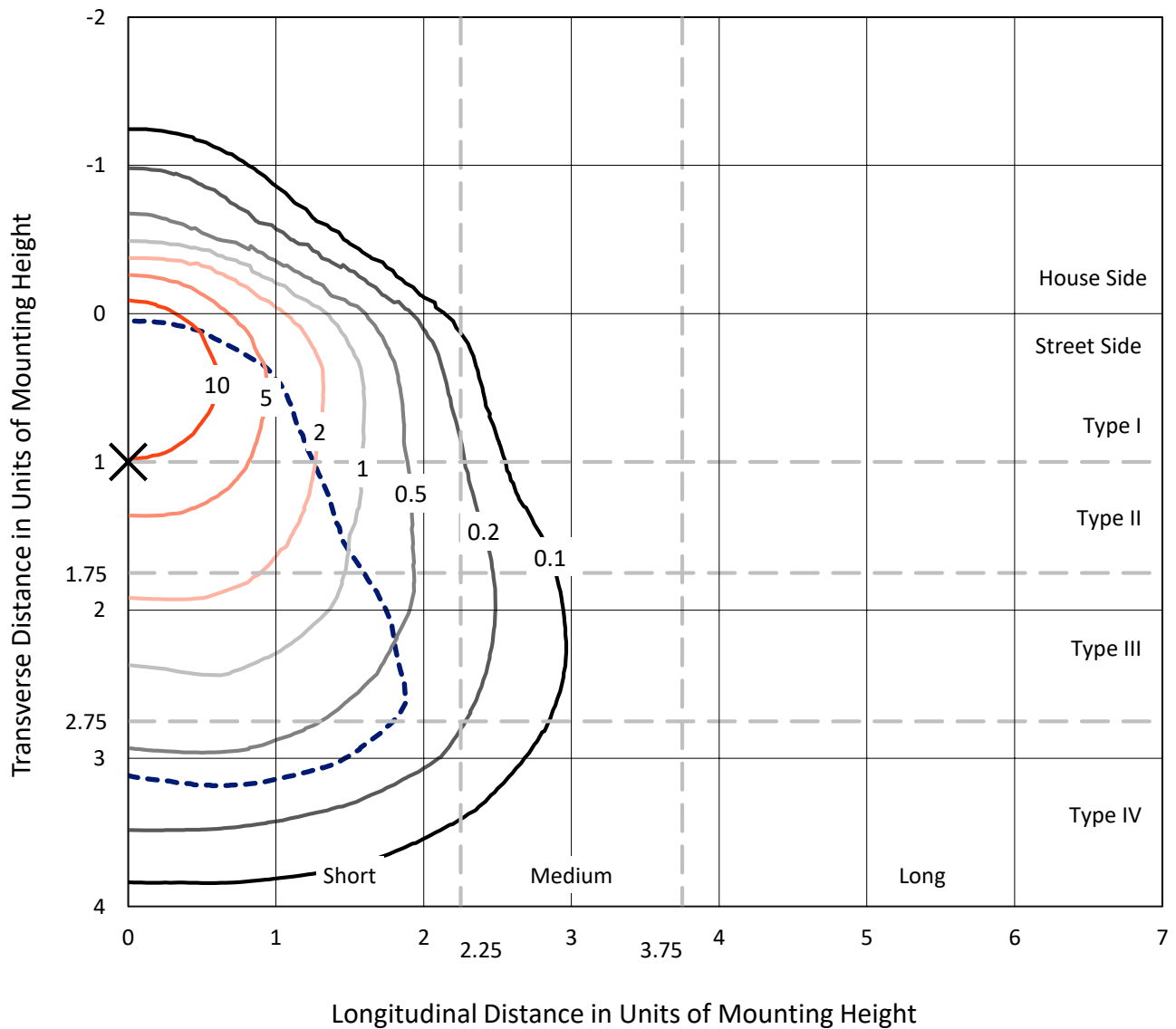
Input Watts (W): 50.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

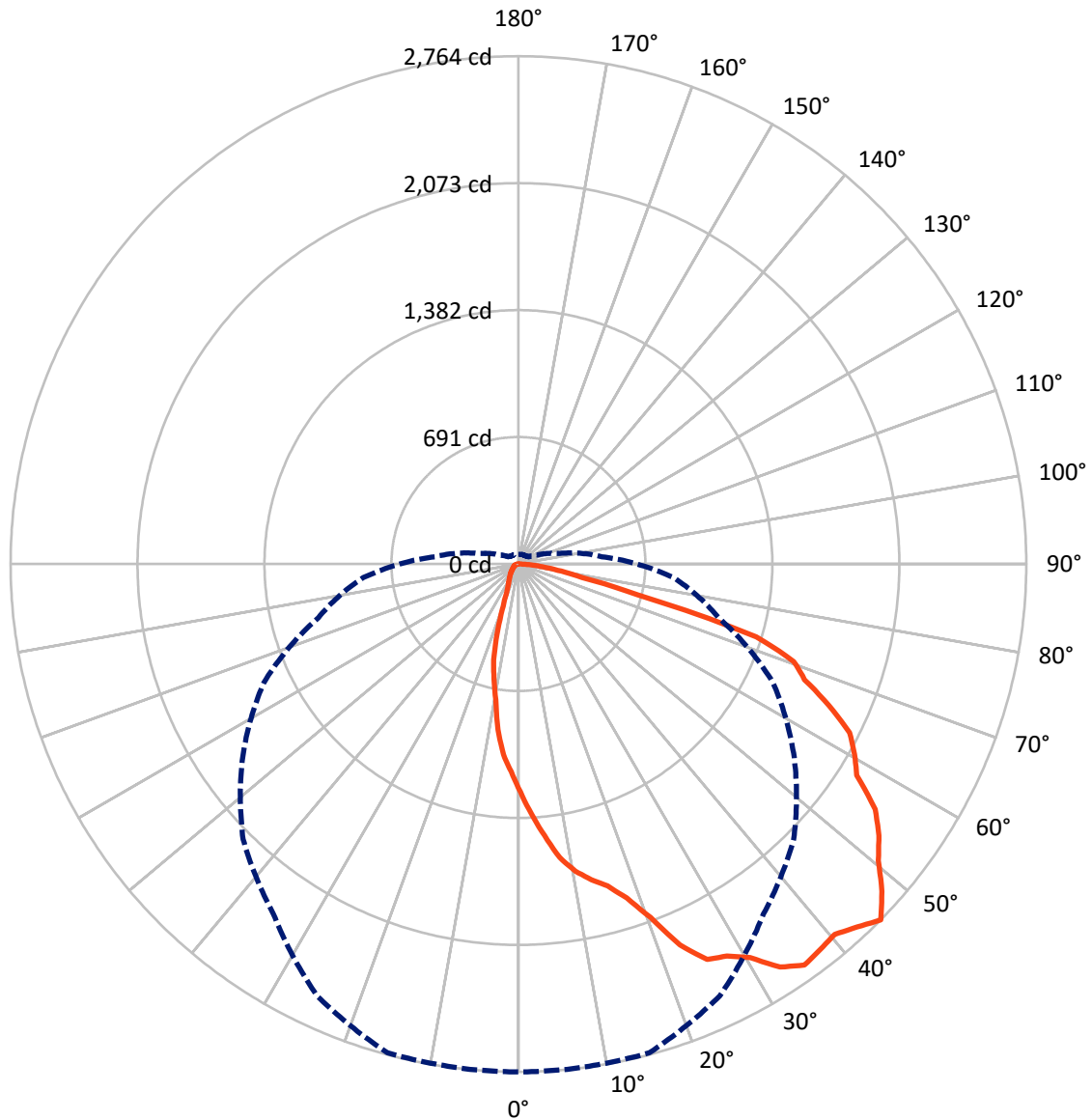
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.2 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 45-Deg Vertical

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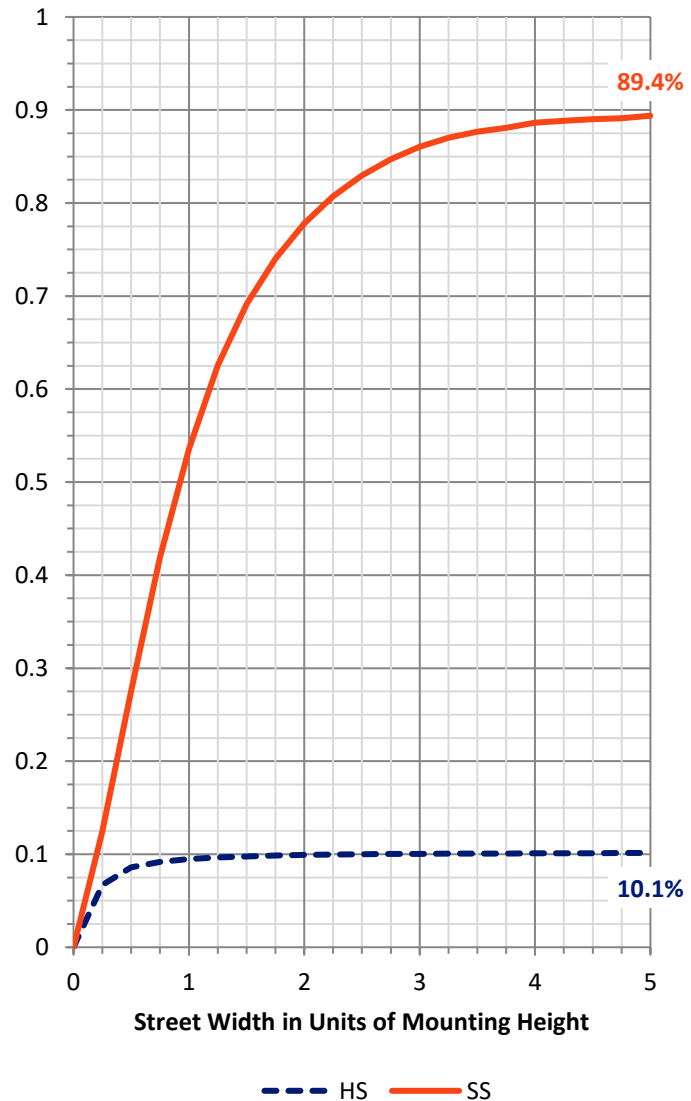
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	440.3	0.0	440.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	3841.3	0.0	3841.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	4281.6	0.0	4281.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.0	2.8
10°-20°	338.4	7.9
20°-30°	530.8	12.4
30°-40°	704.5	16.5
40°-50°	811.2	18.9
50°-60°	784.7	18.3
60°-70°	638.1	14.9
70°-80°	318.1	7.4
80°-90°	36.8	0.9
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°	4281.6	100.0
0°-180°	4281.6	100.0



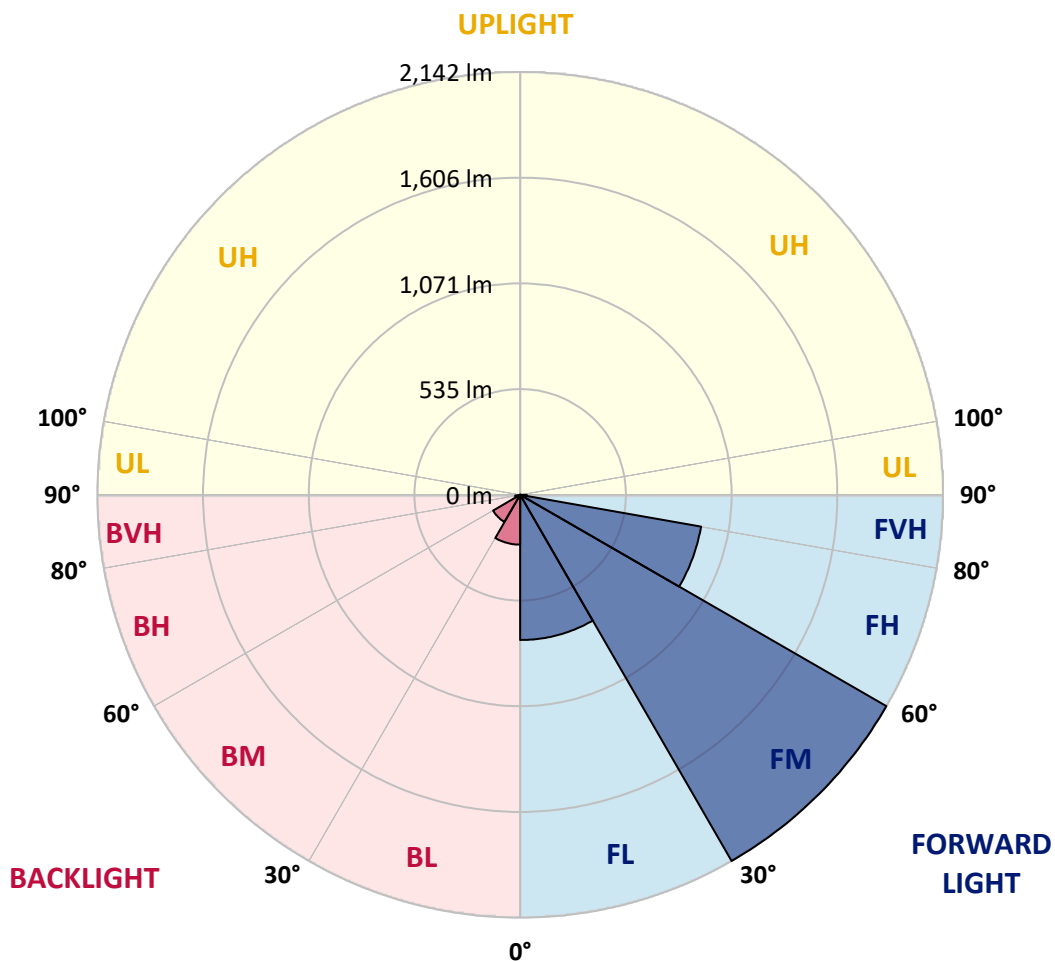
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	735.7	17.2			
FM	(30°-60°)	2142.0	50.0			
FH	(60°-80°)	930.3	21.7			G1/1800
FVH	(80°-90°)	33.3	0.8			G1/100
BL	(0°-30°)	252.5	5.9	B1/500		
BM	(30°-60°)	158.4	3.7	B0/220		
BH	(60°-80°)	25.9	0.6	B0/110		G0/110
BVH	(80°-90°)	3.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1240	1240	1240	1240	1240	1240	1240	1240	1240	1240	1240
2.5°	1363	1363	1348	1348	1338	1331	1311	1291	1272	1251	1240
5°	1485	1482	1468	1458	1440	1423	1385	1347	1308	1264	1240
7.5°	1613	1610	1606	1586	1559	1500	1447	1396	1336	1268	1233
10°	1699	1701	1696	1670	1636	1596	1519	1433	1355	1265	1218
12.5°	1763	1759	1764	1742	1713	1663	1588	1479	1376	1264	1204
15°	1818	1819	1820	1802	1773	1722	1647	1545	1395	1262	1188
17.5°	1910	1906	1892	1848	1814	1765	1689	1577	1409	1251	1163
20°	2053	2040	2009	1950	1868	1789	1709	1601	1427	1231	1131
22.5°	2252	2247	2202	2108	1969	1826	1726	1609	1438	1207	1093
25°	2385	2376	2338	2260	2128	1908	1735	1607	1432	1182	1054
27.5°	2416	2412	2398	2342	2238	2026	1780	1607	1421	1151	1011
30°	2485	2476	2427	2361	2269	2130	1842	1593	1401	1113	961
32.5°	2615	2604	2549	2435	2276	2157	1925	1582	1365	1071	909
35°	2681	2677	2638	2519	2344	2146	1976	1597	1321	1031	853
37.5°	2665	2661	2647	2578	2402	2131	1961	1608	1275	990	800
40°	2650	2646	2627	2562	2413	2178	1902	1618	1221	951	747
42.5°	2701	2697	2667	2551	2358	2174	1848	1597	1164	901	696
45°	2764	2763	2754	2593	2325	2119	1832	1529	1127	847	644
47.5°	2662	2678	2755	2650	2347	2031	1765	1428	1094	788	593
50°	2538	2563	2650	2581	2370	1989	1637	1320	1059	716	541
52.5°	2456	2482	2550	2499	2307	1962	1493	1231	994	635	486
55°	2356	2393	2491	2416	2249	1846	1364	1113	893	549	423
57.5°	2171	2217	2315	2340	2162	1711	1250	972	768	462	353
60°	2102	2146	2223	2203	2052	1590	1103	842	633	379	275
62.5°	2023	2065	2223	2219	1910	1433	1029	699	476	292	198
65°	1857	1886	2117	2116	1895	1268	921	541	345	207	129
67.5°	1680	1738	2052	1988	1776	1229	789	444	226	126	75
70°	1590	1672	1902	1795	1568	1231	688	304	125	63	42
72.5°	1354	1396	1551	1596	1451	985	606	255	87	35	25
75°	671	686	795	976	1060	822	499	210	57	19	18
77.5°	353	355	384	412	438	456	405	187	38	15	14
80°	236	236	246	273	261	173	159	132	22	11	11
82.5°	145	145	146	163	157	100	71	47	12	8	8
85°	79	78	78	86	85	52	33	15	7	7	7
87.5°	26	26	26	28	30	18	12	6	6	6	6
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1240	1240	1240	1240	1240	1240	1240	1240	1240	1240
2.5°	1228	1207	1187	1170	1160	1140	1136	1131	1129	1130
5°	1217	1179	1141	1110	1090	1065	1055	1044	1039	1040
7.5°	1199	1143	1089	1053	1015	970	945	918	909	907
10°	1175	1099	1040	979	913	845	801	764	753	748
12.5°	1150	1059	983	892	797	717	673	650	642	638
15°	1123	1019	918	793	683	625	589	556	543	538
17.5°	1086	970	839	690	600	545	481	436	405	399
20°	1042	910	749	602	521	437	351	296	265	261
22.5°	992	843	654	530	427	317	235	196	178	176
25°	941	774	565	458	329	219	165	147	139	138
27.5°	886	699	489	381	241	158	132	124	120	119
30°	825	620	424	301	173	125	113	107	105	104
32.5°	762	541	363	227	131	106	99	95	93	92
35°	698	467	303	169	106	92	87	84	83	82
37.5°	639	395	249	127	90	81	77	75	74	74
40°	574	329	197	99	78	72	70	68	67	67
42.5°	515	271	152	81	68	64	62	61	60	60
45°	455	220	117	69	60	57	56	54	53	53
47.5°	397	177	91	61	54	52	50	49	48	47
50°	338	142	74	54	49	46	45	44	43	43
52.5°	282	112	61	48	44	42	40	39	39	38
55°	226	88	52	43	39	37	36	36	35	35
57.5°	176	68	46	38	36	34	33	33	33	33
60°	131	53	40	34	32	31	31	31	30	30
62.5°	89	42	35	30	29	28	28	28	28	28
65°	59	34	31	27	26	26	26	26	26	26
67.5°	39	28	27	24	24	24	24	24	24	24
70°	28	23	23	21	21	22	22	22	22	22
72.5°	22	19	20	19	19	20	20	19	19	19
75°	18	16	17	16	17	17	17	16	16	16
77.5°	14	13	14	14	15	14	14	13	13	13
80°	12	11	11	12	12	11	11	10	10	10
82.5°	8	8	9	9	9	8	8	8	7	7
85°	7	7	7	7	6	6	6	6	6	6
87.5°	7	7	6	6	5	5	4	4	4	4
90°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)