

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: P23137

Luminaire Tested: **XTOR9A**

Test Date: 01/08/13

Test Information

Test Method: LM-79-08
Report Number: P23137
Test Lab: INNOVATION CENTER P2
Test Date: 01/08/13
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: XTOR9A
Description: LUMARK CROSSTOUR MAXX LED 85W - 5000K, FULL CUTOFF
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7191.8 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 0.71' x L: 3.67' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

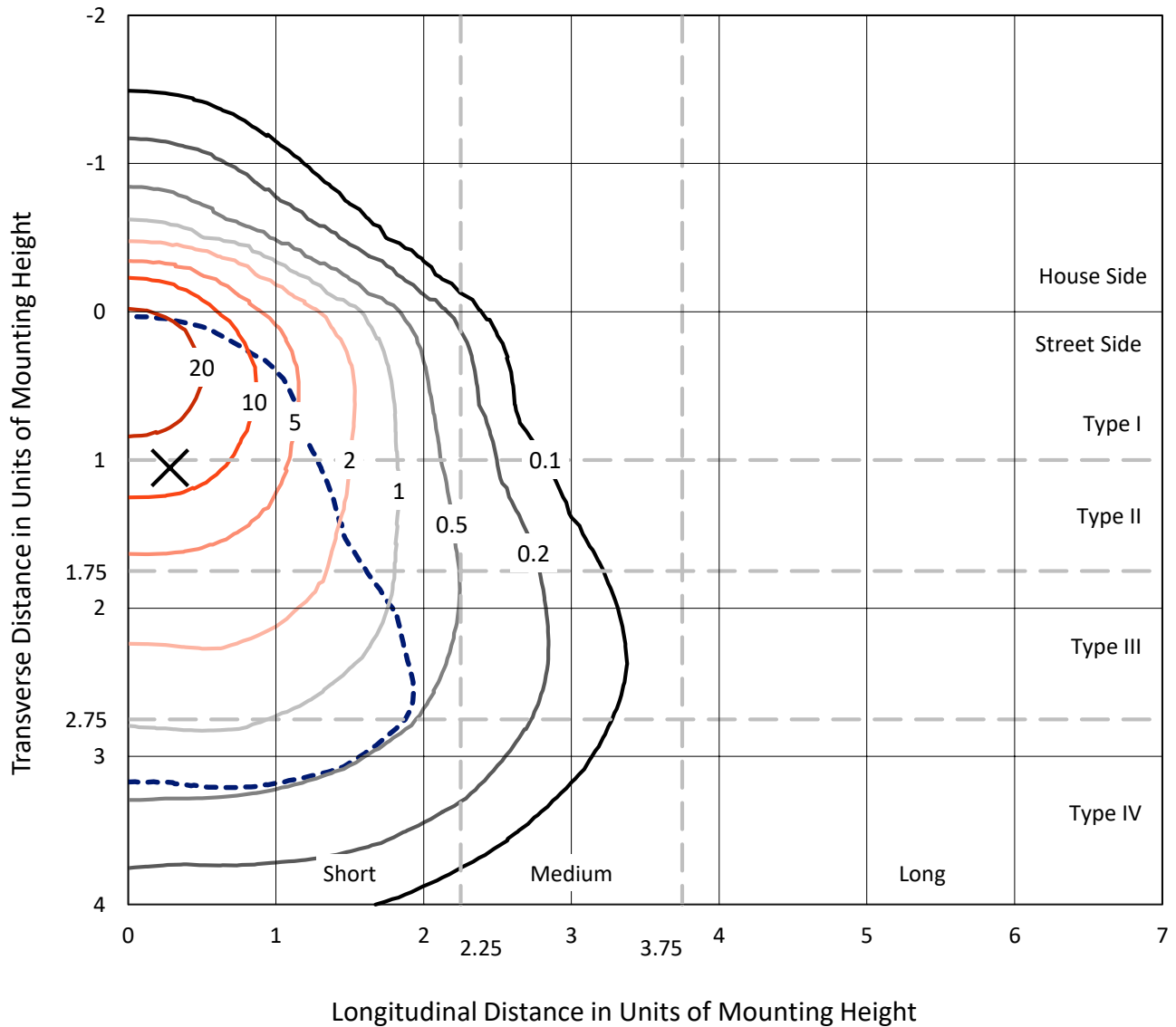
Input Watts (W): 85.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P23137
 CATALOG NUMBER: XTOR9A

Iso-Footcandle Lines of Horizontal Illumination

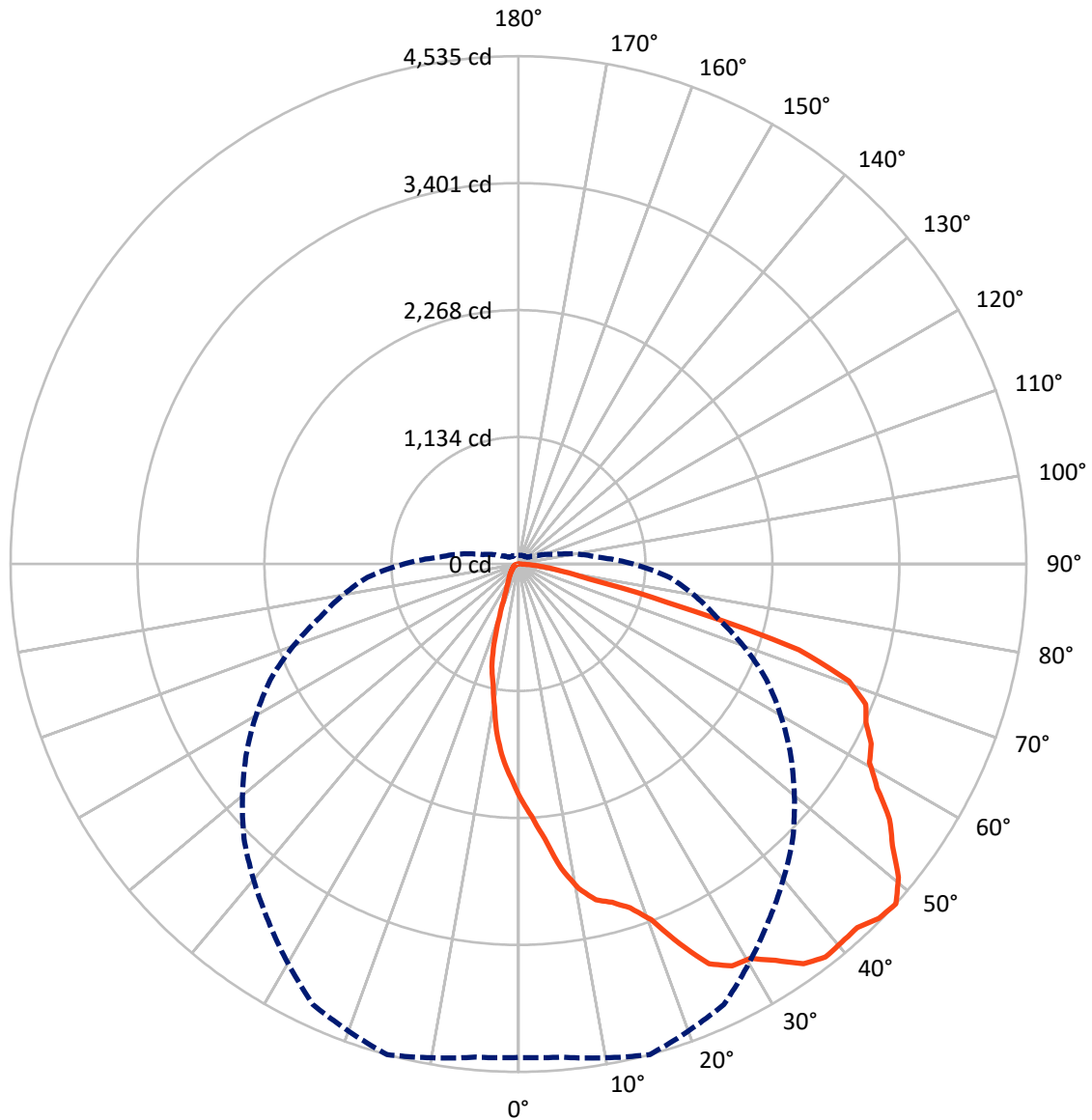
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 29 fc
 Type IV - Short - Full Cutoff

REPORT NUMBER: P23137
CATALOG NUMBER: XTOR9A

Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral - - - Horizontal Cone Through 47.5-Deg Vertical

REPORT NUMBER: P23137
 CATALOG NUMBER: XTOR9A

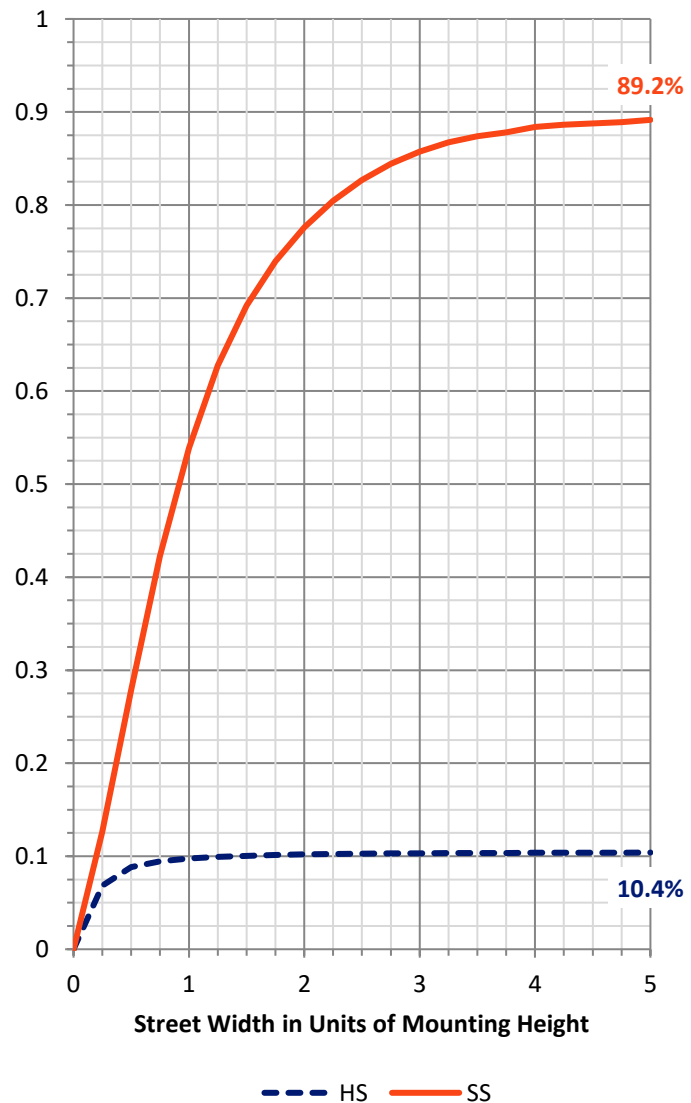
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	757.9	0.0	757.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	6433.8	0.0	6433.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	7191.8	0.0	7191.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.5	2.8
10°-20°	576.8	8.0
20°-30°	901.4	12.5
30°-40°	1188.9	16.5
40°-50°	1361.9	18.9
50°-60°	1306.1	18.2
60°-70°	1055.8	14.7
70°-80°	539.7	7.5
80°-90°	60.6	0.8
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°	7191.8	100.0
0°-180°	7191.8	100.0



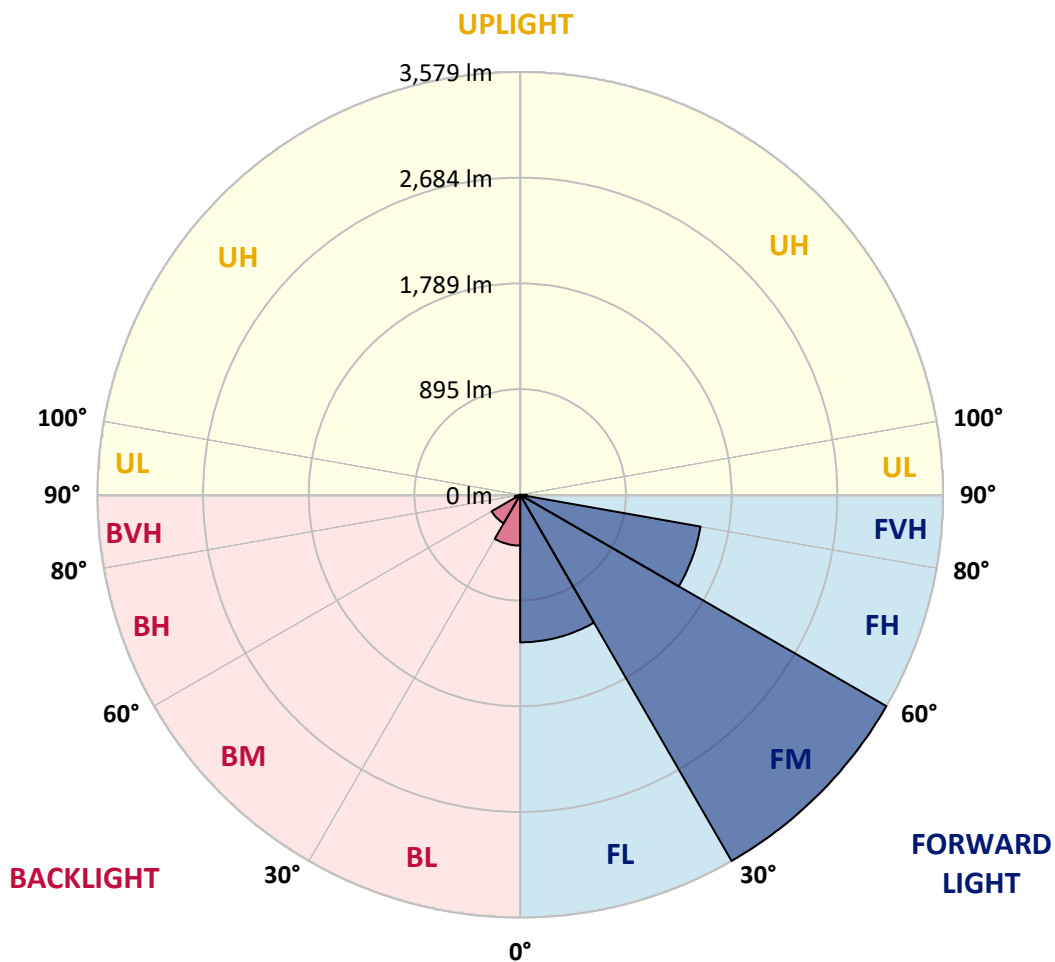
REPORT NUMBER: P23137
 CATALOG NUMBER: XTOR9A

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1248.8	17.4			
FM	(30°-60°)	3578.9	49.8			
FH	(60°-80°)	1550.6	21.6			G1/1800
FVH	(80°-90°)	55.6	0.8			G1/100
BL	(0°-30°)	429.9	6.0	B1/500		
BM	(30°-60°)	278.1	3.9	B1/1000		
BH	(60°-80°)	44.9	0.6	B0/110		G0/110
BVH	(80°-90°)	5.0	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





REPORT NUMBER: P23137
 CATALOG NUMBER: XTOR9A

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2092	2092	2092	2092	2092	2092	2092	2092	2092	2092	2092
2.5°	2273	2261	2254	2251	2232	2220	2201	2164	2138	2112	2096
5°	2471	2471	2466	2443	2405	2370	2317	2248	2190	2130	2096
7.5°	2762	2751	2744	2699	2623	2519	2429	2326	2229	2133	2083
10°	2958	2950	2945	2895	2813	2716	2555	2395	2258	2122	2057
12.5°	3070	3076	3078	3044	2975	2872	2710	2475	2292	2115	2031
15°	3141	3136	3135	3117	3082	2991	2834	2608	2329	2105	2001
17.5°	3263	3248	3227	3174	3119	3058	2919	2689	2357	2081	1959
20°	3441	3442	3390	3308	3185	3072	2958	2747	2384	2045	1904
22.5°	3782	3778	3682	3541	3323	3118	2964	2774	2424	2005	1841
25°	4018	4013	3956	3809	3563	3229	2969	2777	2435	1964	1776
27.5°	4079	4076	4064	3980	3759	3407	3019	2760	2430	1916	1703
30°	4167	4151	4086	4005	3858	3578	3104	2724	2399	1854	1622
32.5°	4322	4313	4221	4072	3864	3656	3224	2696	2345	1791	1534
35°	4452	4444	4383	4190	3917	3645	3320	2691	2271	1728	1444
37.5°	4498	4486	4454	4305	3994	3601	3334	2700	2178	1665	1357
40°	4447	4446	4443	4333	4035	3618	3247	2705	2080	1602	1271
42.5°	4456	4452	4438	4284	4009	3633	3147	2695	1980	1539	1186
45°	4512	4513	4513	4279	3924	3588	3063	2610	1898	1453	1102
47.5°	4406	4420	4535	4340	3893	3466	2967	2444	1830	1352	1022
50°	4230	4244	4398	4286	3895	3355	2817	2237	1762	1235	940
52.5°	4038	4063	4183	4129	3829	3262	2580	2051	1669	1103	854
55°	3826	3862	4021	3949	3726	3089	2315	1870	1511	965	759
57.5°	3574	3623	3778	3784	3558	2888	2089	1657	1312	824	654
60°	3409	3468	3602	3597	3365	2669	1863	1440	1071	683	530
62.5°	3247	3289	3535	3581	3167	2383	1715	1190	815	548	400
65°	3066	3100	3409	3414	3114	2123	1534	926	598	405	272
67.5°	2753	2818	3345	3307	2921	2040	1301	765	399	252	163
70°	2646	2758	3132	2980	2677	2038	1159	535	223	134	91
72.5°	2305	2319	2620	2706	2458	1700	1002	431	159	72	51
75°	1192	1146	1376	1704	1786	1398	846	364	107	37	31
77.5°	598	591	649	717	781	796	696	327	74	25	24
80°	394	385	411	459	444	302	288	228	44	18	17
82.5°	244	236	245	275	258	169	125	82	22	13	13
85°	128	121	127	143	137	86	57	25	11	11	11
87.5°	41	37	40	46	44	28	18	10	8	9	9
90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P23137
 CATALOG NUMBER: XTOR9A

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2092	2092	2092	2092	2092	2092	2092	2092	2092	2092
2.5°	2077	2037	2005	1974	1956	1931	1915	1910	1904	1904
5°	2057	1988	1932	1874	1830	1788	1759	1746	1733	1737
7.5°	2026	1929	1842	1765	1699	1633	1576	1546	1525	1525
10°	1983	1857	1746	1639	1533	1435	1344	1294	1265	1261
12.5°	1940	1784	1652	1507	1346	1216	1130	1089	1078	1074
15°	1894	1709	1545	1340	1152	1060	993	947	925	920
17.5°	1834	1624	1418	1173	1012	930	823	746	709	703
20°	1762	1525	1273	1018	888	759	613	522	482	479
22.5°	1681	1418	1120	899	740	565	424	356	329	327
25°	1599	1308	966	785	579	401	302	268	252	251
27.5°	1509	1186	839	659	428	291	239	219	210	209
30°	1410	1059	731	530	314	227	199	187	181	180
32.5°	1308	931	633	407	237	188	171	162	157	157
35°	1205	808	537	308	190	161	149	143	139	139
37.5°	1104	691	446	234	159	140	132	127	124	125
40°	1002	585	359	182	136	123	118	114	111	111
42.5°	901	487	282	148	118	109	105	101	99	99
45°	802	402	220	124	104	97	93	90	88	87
47.5°	704	326	172	107	92	87	83	80	78	78
50°	608	265	137	94	82	77	74	72	70	70
52.5°	515	211	112	82	73	69	67	65	65	64
55°	425	168	94	73	66	62	61	61	60	60
57.5°	341	131	80	65	59	57	57	56	55	55
60°	261	102	69	58	53	52	52	51	50	49
62.5°	184	79	61	51	49	49	48	47	46	45
65°	125	63	53	46	45	44	44	43	42	42
67.5°	83	51	47	41	41	40	40	39	38	38
70°	54	42	40	36	36	36	36	34	33	33
72.5°	39	34	33	32	32	32	31	29	28	28
75°	30	27	27	27	28	26	26	24	23	23
77.5°	23	21	22	23	22	21	20	19	18	18
80°	18	17	17	18	17	16	16	15	14	14
82.5°	13	13	13	13	12	12	11	11	10	10
85°	11	11	11	10	9	8	8	7	7	7
87.5°	10	10	9	9	8	7	6	5	5	5
90°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)