

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: P23085

Luminaire Tested: **XTOR5A-N**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P23085
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: XTOR5A-N
Description: LUMARK CROSSTOUR LED MAXX LED 50W - 3500K, FULL CUTOFF
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3532.3 lumens
Efficiency: N/A
Efficacy: 70.6 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

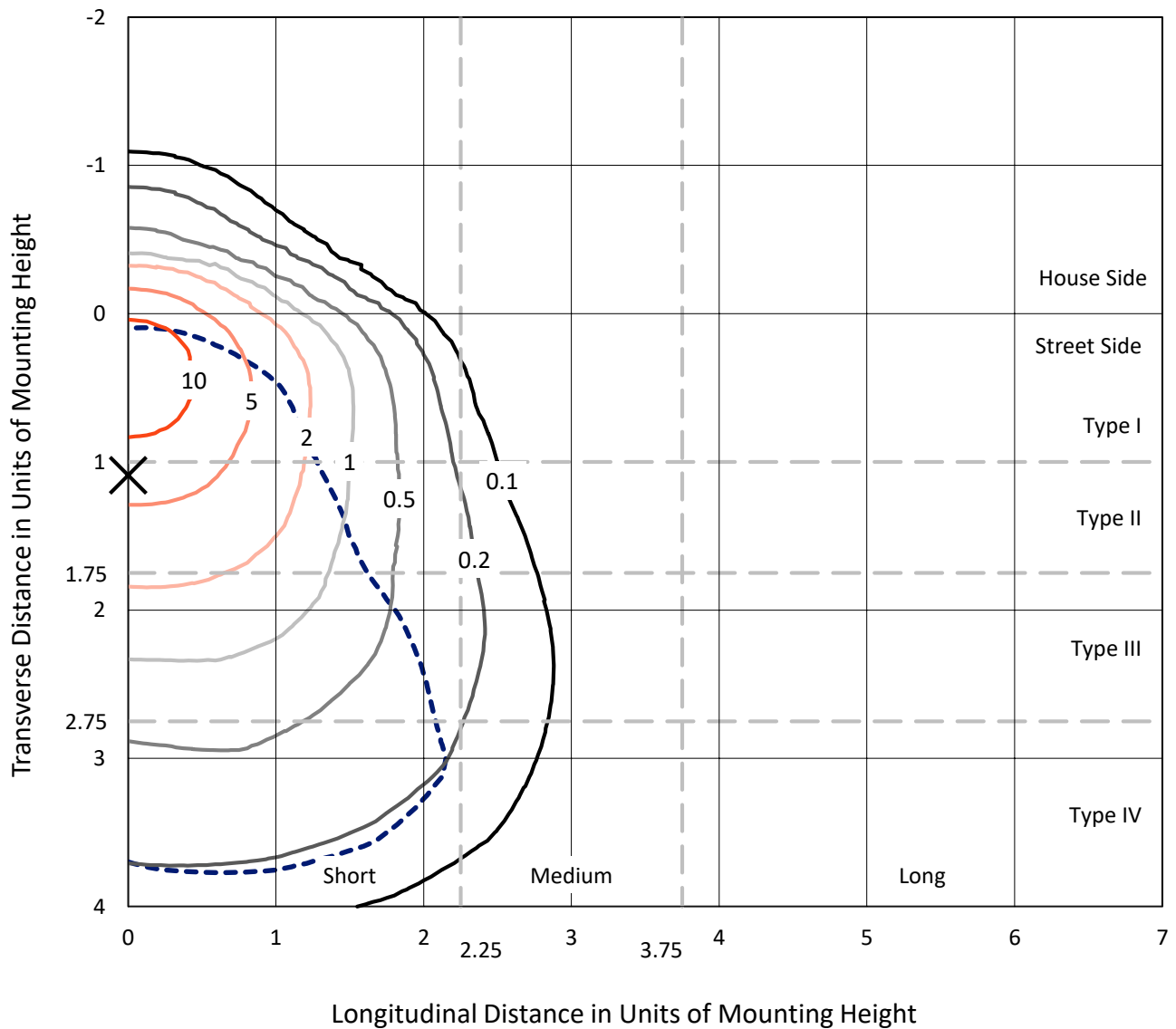
Input Watts (W): 50
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P23085
 CATALOG NUMBER: XTOR5A-N

Iso-Footcandle Lines of Horizontal Illumination

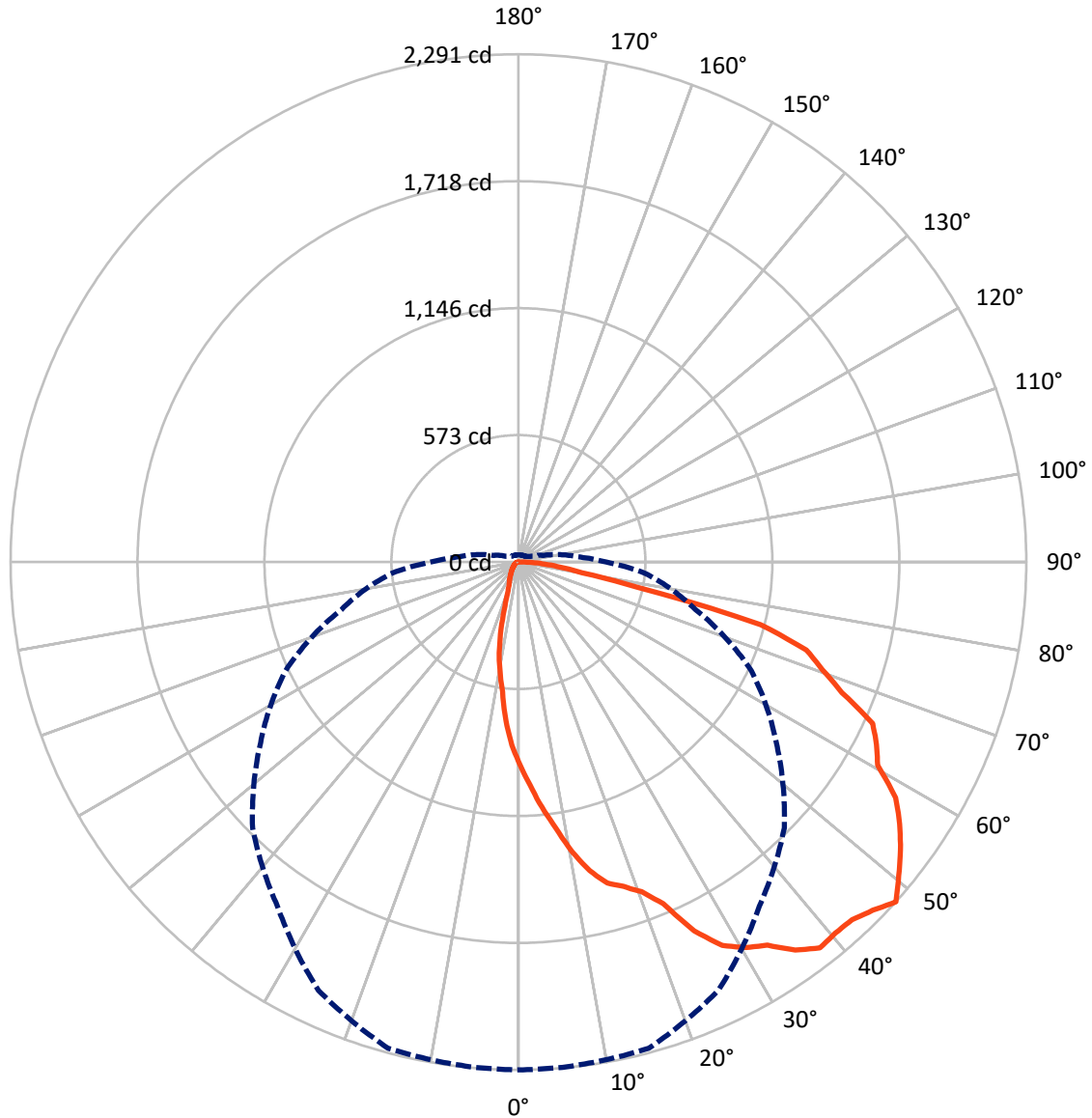
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.7 fc
 Type IV - Short - Full Cutoff

REPORT NUMBER: P23085
CATALOG NUMBER: XTOR5A-N

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 47.5-Deg Vertical

REPORT NUMBER: P23085
 CATALOG NUMBER: XTOR5A-N

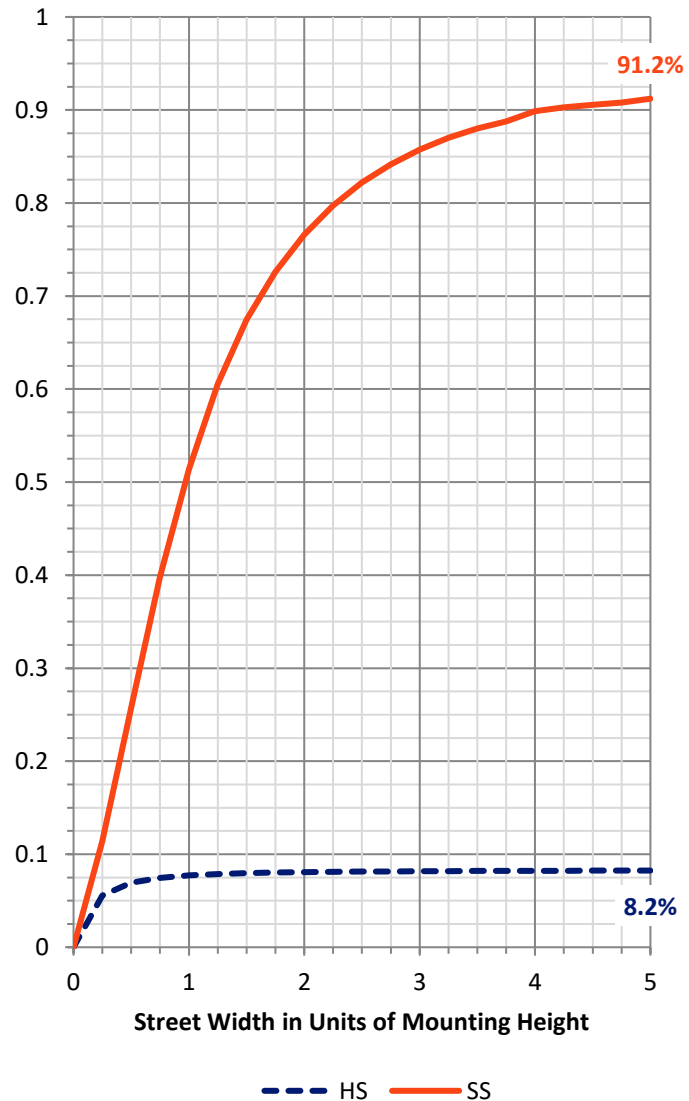
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	294.9	0.0	294.9
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	3237.3	0.0	3237.3
	% Fixture	91.7	0.0	91.7
Total	Lumens	3532.3	0.0	3532.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	2.5
10°-20°	253.0	7.2
20°-30°	399.5	11.3
30°-40°	547.7	15.5
40°-50°	648.9	18.4
50°-60°	657.8	18.6
60°-70°	552.1	15.6
70°-80°	339.3	9.6
80°-90°	46.5	1.3
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°	3532.3	100.0
0°-180°	3532.3	100.0



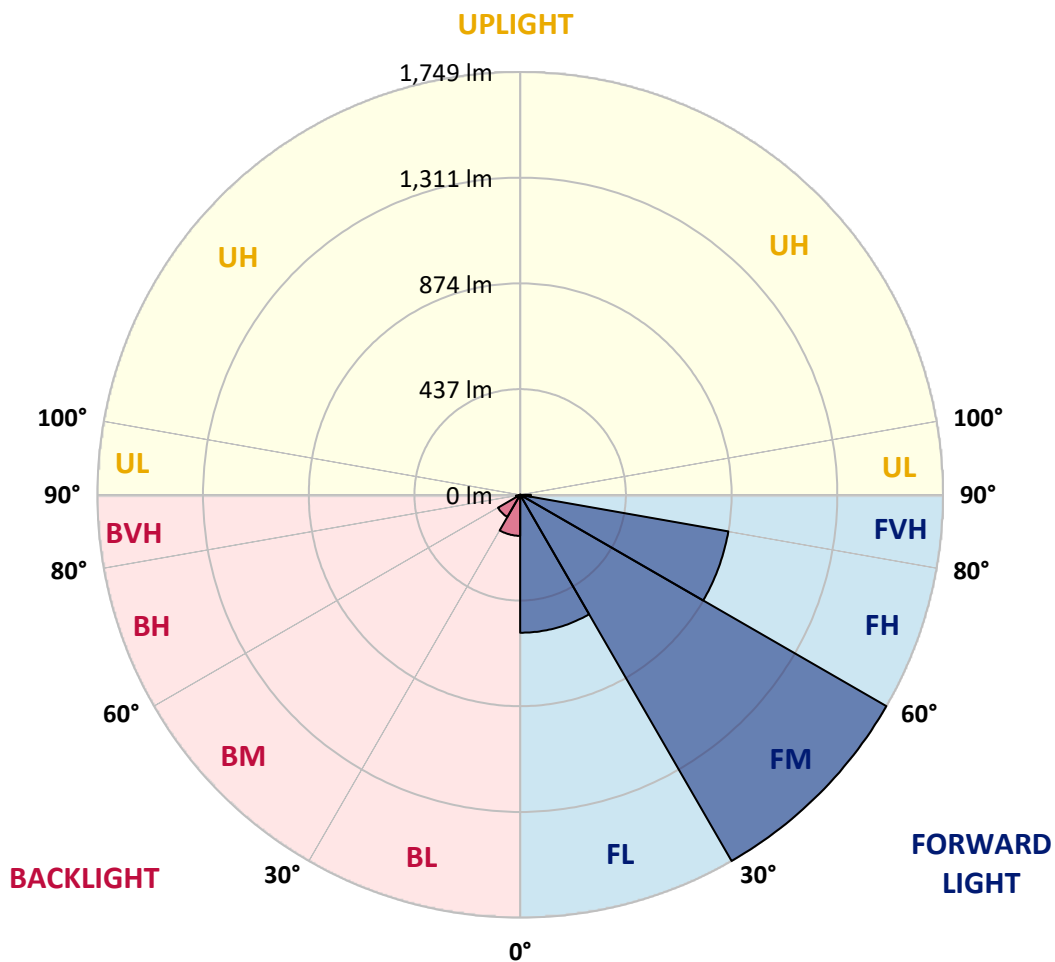
REPORT NUMBER: P23085
 CATALOG NUMBER: XTOR5A-N

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	570.4	16.1			
FM	(30°-60°)	1748.6	49.5			
FH	(60°-80°)	874.1	24.7			G1/1800
FVH	(80°-90°)	44.3	1.3			G1/100
BL	(0°-30°)	169.5	4.8	B1/500		
BM	(30°-60°)	105.9	3.0	B0/220		
BH	(60°-80°)	17.3	0.5	B0/110		G0/110
BVH	(80°-90°)	2.2	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: P23085
 CATALOG NUMBER: XTOR5A-N

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	917	917	917	917	917	917	917	917	917	917	917
2.5°	1007	1008	1005	999	989	986	966	954	941	926	918
5°	1112	1122	1117	1103	1085	1068	1031	1000	966	933	917
7.5°	1211	1221	1215	1196	1171	1141	1092	1044	988	936	911
10°	1329	1337	1325	1302	1250	1204	1144	1082	1007	933	899
12.5°	1429	1432	1418	1394	1351	1291	1198	1118	1026	930	887
15°	1503	1505	1490	1470	1430	1365	1268	1154	1044	925	872
17.5°	1539	1539	1528	1520	1484	1421	1324	1185	1054	913	850
20°	1588	1590	1568	1545	1513	1457	1364	1227	1058	895	821
22.5°	1674	1673	1647	1600	1539	1479	1387	1251	1060	875	788
25°	1843	1843	1793	1707	1601	1500	1405	1268	1062	854	755
27.5°	1959	1957	1916	1832	1701	1543	1409	1272	1065	828	718
30°	2018	2013	1985	1911	1800	1610	1419	1265	1061	799	678
32.5°	2061	2050	2019	1954	1843	1694	1451	1253	1049	767	637
35°	2150	2140	2099	2002	1863	1737	1498	1237	1028	734	595
37.5°	2209	2206	2166	2060	1897	1743	1549	1229	997	702	554
40°	2201	2199	2181	2102	1941	1731	1547	1224	957	671	513
42.5°	2206	2205	2188	2095	1944	1741	1509	1215	909	640	472
45°	2241	2240	2220	2100	1907	1737	1463	1199	864	608	434
47.5°	2291	2288	2271	2133	1895	1696	1420	1159	826	571	395
50°	2224	2237	2273	2154	1910	1627	1351	1085	794	527	356
52.5°	2158	2171	2205	2120	1916	1592	1247	999	761	474	317
55°	2087	2104	2137	2071	1870	1548	1144	914	705	413	276
57.5°	2007	2036	2077	2018	1838	1444	1046	818	625	348	234
60°	1862	1900	1956	1955	1767	1342	943	710	519	281	182
62.5°	1813	1846	1897	1857	1672	1249	846	602	402	212	134
65°	1756	1794	1891	1867	1566	1115	775	463	280	148	86
67.5°	1574	1600	1781	1775	1555	1003	674	362	187	90	52
70°	1455	1517	1756	1652	1438	1001	572	276	113	48	32
72.5°	1358	1422	1600	1487	1284	938	491	198	69	27	20
75°	1128	1171	1278	1294	1151	757	430	168	44	16	14
77.5°	544	572	642	754	772	589	368	144	31	12	11
80°	291	296	313	329	310	257	243	120	18	9	8
82.5°	191	194	198	210	189	119	85	55	10	6	6
85°	119	120	120	128	110	66	38	16	5	5	5
87.5°	64	66	64	67	55	32	16	6	4	5	5
90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P23085
 CATALOG NUMBER: XTOR5A-N

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	917	917	917	917	917	917	917	917	917	917
2.5°	910	894	881	868	853	847	842	834	832	827
5°	902	871	846	815	787	765	750	730	725	718
7.5°	888	844	802	752	698	658	630	603	595	589
10°	869	810	746	668	599	552	528	510	505	502
12.5°	848	773	685	589	521	485	459	432	422	418
15°	826	732	619	517	464	414	372	332	317	311
17.5°	796	683	549	462	397	327	271	226	211	206
20°	761	628	483	406	316	235	185	154	146	143
22.5°	720	569	428	343	241	166	134	120	115	114
25°	680	510	379	280	176	125	109	101	99	98
27.5°	636	450	330	217	131	103	94	89	86	87
30°	590	390	279	164	104	88	82	78	75	75
32.5°	542	336	230	125	87	77	72	68	66	66
35°	494	286	185	97	75	67	63	60	59	58
37.5°	447	243	146	79	65	59	55	53	52	52
40°	400	206	113	67	57	52	49	47	46	46
42.5°	356	172	89	58	50	46	44	42	41	41
45°	309	143	72	51	44	41	39	37	36	36
47.5°	268	116	59	44	39	36	34	33	32	32
50°	223	92	50	39	35	32	31	30	29	29
52.5°	185	74	43	35	31	29	27	27	26	25
55°	146	58	38	31	28	26	25	24	23	23
57.5°	112	47	34	28	25	23	22	21	21	21
60°	80	38	30	25	23	21	20	19	19	19
62.5°	57	31	26	22	20	19	18	18	17	17
65°	39	26	23	20	18	17	17	16	16	16
67.5°	28	21	20	17	16	15	15	15	14	14
70°	22	18	17	15	14	14	14	13	13	13
72.5°	18	15	14	13	13	12	12	12	11	11
75°	14	12	11	11	11	10	10	10	9	9
77.5°	11	10	9	9	9	8	8	7	7	7
80°	8	7	7	7	7	6	6	5	5	5
82.5°	6	6	6	6	5	5	4	4	3	3
85°	5	5	5	5	4	4	3	3	2	2
87.5°	5	5	5	4	4	4	3	2	2	2
90°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)