

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: 08519

Luminaire Tested: **CFSF-X-42**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 08519
Test Lab: LUMINAIRE TESTING LABORATORY, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: CFSF-X-42
Description: FALCON FLOODLIGHT
Light Source: 42 WATT TRIPLE TUBE COMPACT FLUORESCENT LAMP
Ballast/Driver: -

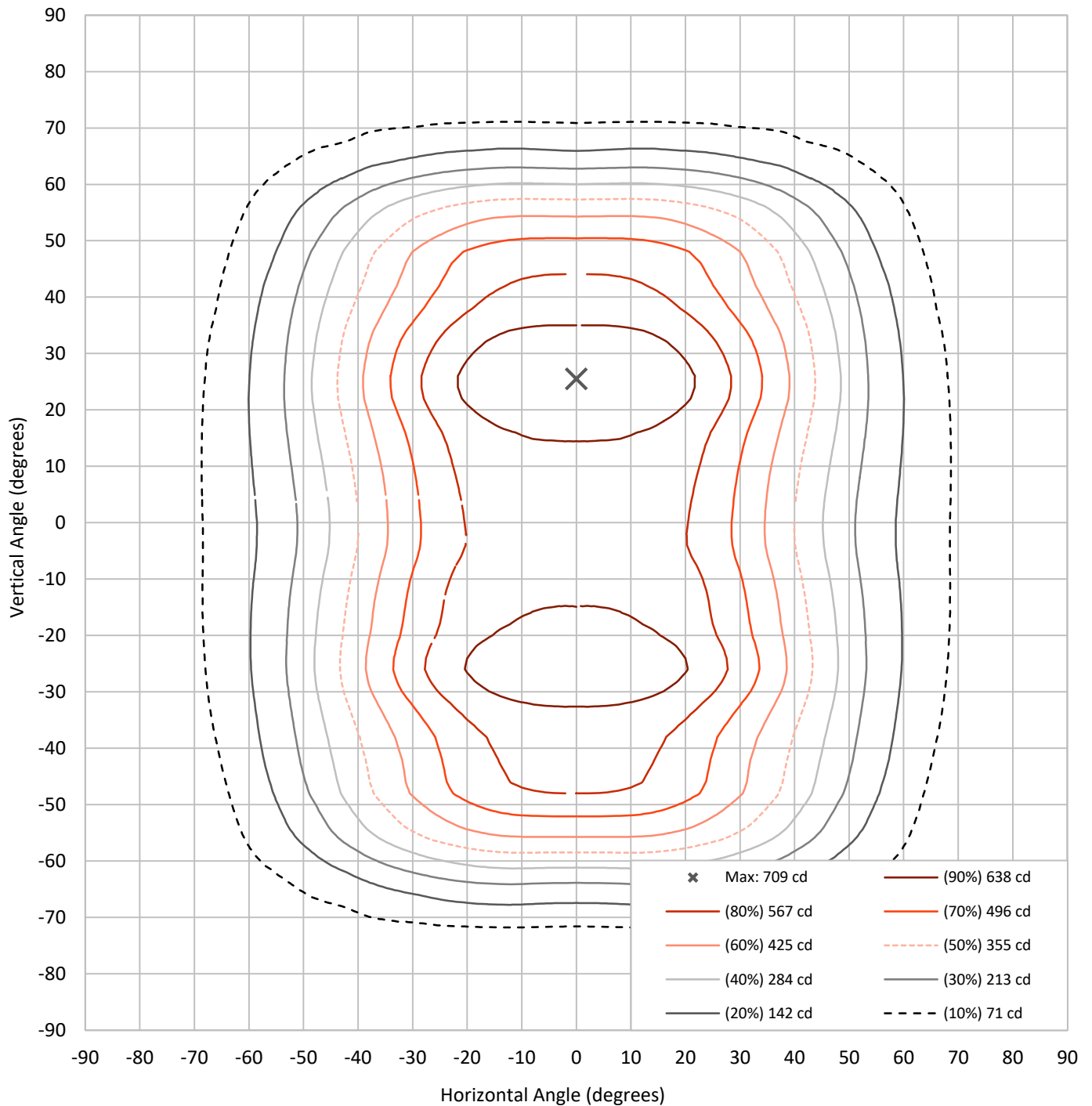
Summary

Lumens per Lamp:	3200 (1 lamp)	NEMA Type:	7H x 7V
Luminaire Lumens:	1779.7 lumens	Max Intensity:	709 candela
Efficiency:	55.6%	Max Intensity Angle:	0°H x 25.5°V
Efficacy:	36.0 lumens/watt		
Luminous Opening:	Rectangular (W 0.79' x L: 0.54' x H: 0')		
Beam Angle (50%):	87.7°H x 115.8°V	Field Angle (10%):	136.2°H x 142.5°V
Beam Lumens:	1354.4 lumens	Field Lumens:	1746 lumens
Beam Efficiency:	76.1%	Field Efficiency:	98.1%
Input Watts (W):	49.5		
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		



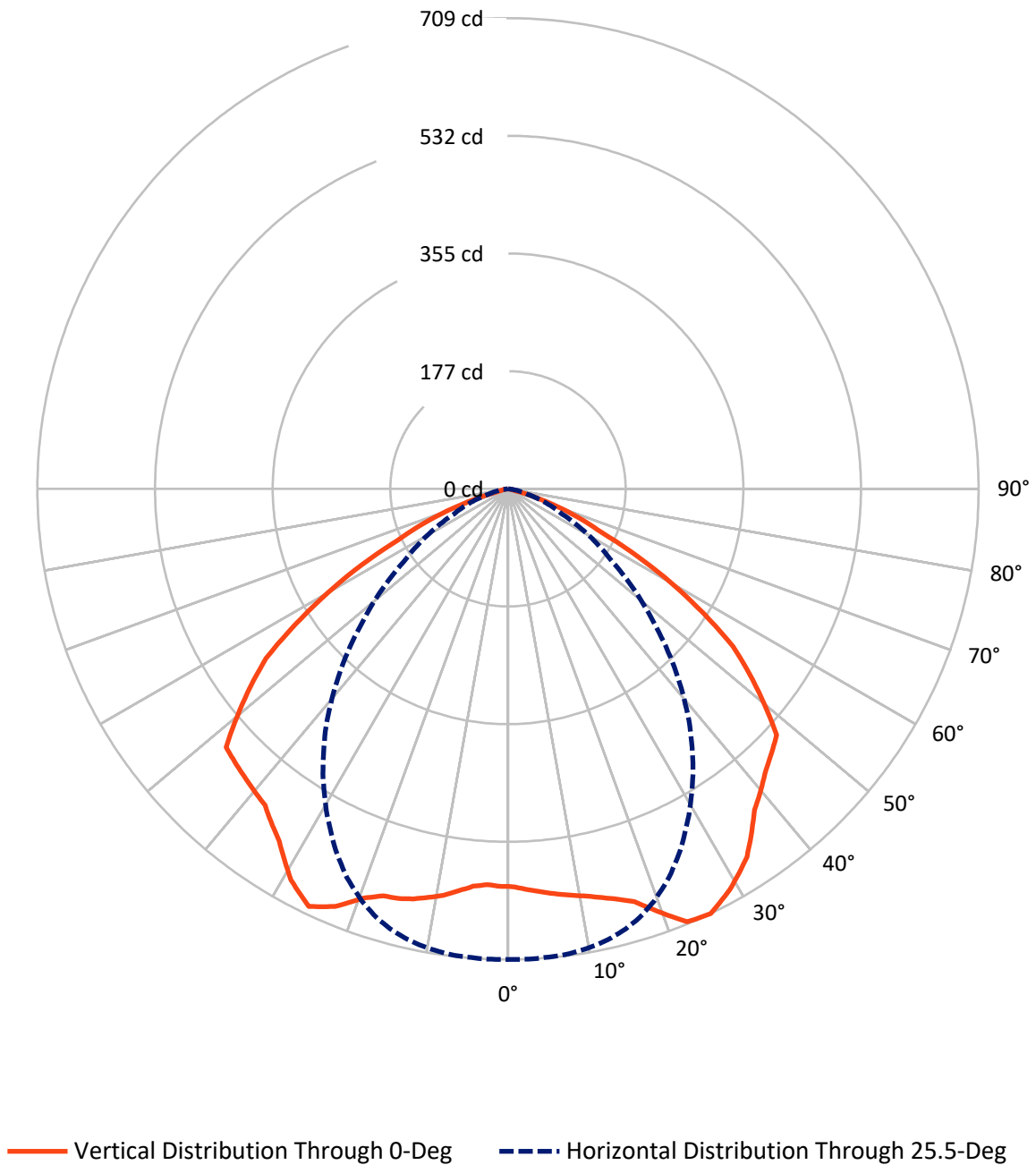
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Iso-Candela Plot



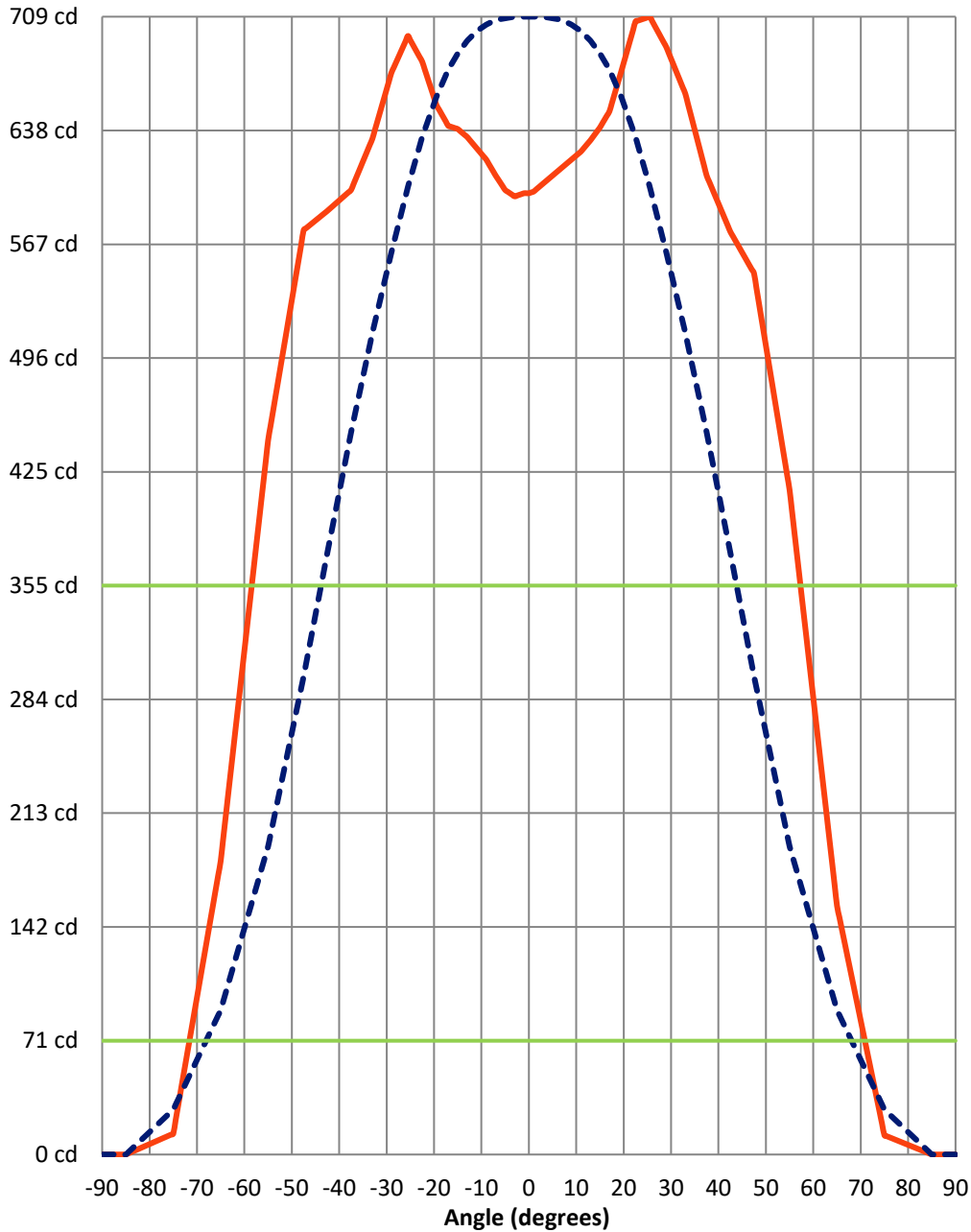
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 87.7°
 V Angle: 115.8°
 Lumens: 1354.4
 Efficiency: 76.1%

Field:
 H Angle: 136.2°
 V Angle: 142.5°
 Lumens: 1746
 Efficiency: 98.1%

Spill:
 Lumens: 33.7
 Efficiency: 1.9%

— Vertical Distribution through 0-Deg
 - - - Horizontal Distribution through 25.5-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	0°	1°	3°	5°	7°	9°	11°	13°	15°	17°	19.5°
90°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
75°	12	12	12	13	13	13	12	13	13	13	13
65°	155	155	157	158	159	161	162	162	161	158	156
55°	414	415	415	415	416	417	416	413	411	406	397
47.5°	549	550	550	549	548	546	543	539	532	524	512
42.5°	575	575	575	575	574	572	569	564	557	548	535
37.5°	610	610	610	610	609	607	603	599	592	582	568
33°	661	661	661	661	659	657	653	648	640	630	614
29°	690	690	690	689	688	685	681	676	668	658	642
25.5°	709	709	709	708	707	704	700	694	686	676	659
22.5°	706	707	706	705	704	700	696	690	682	671	654
19.5°	675	676	676	675	674	671	667	662	655	646	631
17°	650	651	651	650	650	648	644	640	634	626	612
15°	640	640	640	639	639	637	633	629	624	616	603
13°	632	632	632	631	631	629	625	621	616	608	596
11°	625	626	626	626	625	623	620	616	611	604	591
9°	620	621	621	621	621	619	616	612	607	600	587
7°	615	616	616	616	616	614	611	608	603	596	583
5°	610	611	611	612	611	611	608	604	600	593	580
3°	605	605	606	607	607	606	604	600	596	589	577
1°	600	601	602	602	603	602	600	597	593	586	575
0°	599	600	601	601	602	601	600	597	592	585	574
-1°	599	599	600	601	601	600	599	596	591	585	573
-3°	597	597	598	599	599	599	597	594	589	583	571
-5°	601	602	603	603	604	603	602	598	594	586	574
-7°	610	610	611	611	612	611	609	605	601	594	582
-9°	620	621	621	621	621	620	616	614	610	603	590
-11°	627	628	628	628	627	626	624	621	616	609	596
-13°	634	634	635	634	634	633	630	626	621	614	601
-15°	639	639	639	638	638	636	634	630	625	617	604
-17°	641	642	642	641	641	639	636	632	627	619	605
-19.5°	654	654	654	654	653	650	647	643	636	627	614
-22.5°	681	681	681	680	679	676	673	667	660	651	635
-25.5°	697	697	697	696	695	692	688	683	675	665	649
-29°	674	674	674	674	673	670	665	660	652	643	627
-33°	633	634	633	632	631	628	624	619	611	601	586
-37.5°	601	602	601	600	598	595	591	585	576	566	551
-42.5°	588	588	588	587	585	582	578	572	563	553	538
-47.5°	576	576	576	575	574	571	568	561	553	543	527
-55°	445	445	445	445	445	445	444	442	438	431	421
-65°	183	184	183	184	186	188	190	190	188	188	183
-75°	13	13	13	14	14	14	14	15	14	14	14
-85°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	22.5°	25.5°	29°	33°	37.5°	42.5°	47.5°	55°	65°	75°	85°
90°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
75°	14	15	11	16	17	10	13	17	8	1	0
65°	152	146	136	125	114	90	80	52	27	6	0
55°	384	369	348	318	275	227	176	112	42	14	0
47.5°	492	470	442	403	354	291	229	143	61	18	0
42.5°	515	490	460	422	374	315	251	162	70	21	0
37.5°	547	522	490	451	400	339	271	175	77	23	0
33°	591	563	527	485	428	360	285	184	84	25	0
29°	618	588	549	503	442	369	293	189	88	27	0
25.5°	634	603	562	512	450	375	298	192	90	28	0
22.5°	629	598	558	509	448	374	297	193	92	29	0
19.5°	608	580	542	494	435	364	291	191	93	29	0
17°	591	564	527	481	425	356	286	189	94	30	0
15°	582	555	519	474	419	350	281	186	94	30	0
13°	575	549	513	468	412	344	276	184	94	31	0
11°	571	545	508	462	406	338	271	181	94	31	0
9°	566	540	503	457	401	333	267	178	94	31	0
7°	562	537	500	453	396	329	263	176	94	31	0
5°	559	533	496	450	393	325	259	173	93	31	0
3°	556	531	494	447	390	321	255	171	93	32	0
1°	554	529	492	445	388	319	254	170	92	31	0
0°	553	528	491	445	388	319	253	169	92	31	0
-1°	552	527	491	445	388	319	253	169	92	31	0
-3°	551	526	491	445	388	320	254	169	92	31	0
-5°	554	530	494	448	392	323	256	170	92	31	0
-7°	562	537	501	455	399	329	261	172	92	31	0
-9°	570	545	510	463	406	336	267	175	92	31	0
-11°	576	551	515	469	412	341	272	178	93	31	0
-13°	581	555	520	474	417	346	276	181	92	31	0
-15°	584	559	523	478	422	350	280	183	93	30	0
-17°	586	561	526	482	424	354	283	184	93	30	0
-19.5°	593	567	531	486	429	358	286	186	92	29	0
-22.5°	612	584	547	498	438	365	290	187	91	29	0
-25.5°	624	595	556	507	443	368	291	188	89	29	0
-29°	604	576	539	492	433	361	286	184	87	27	0
-33°	563	535	501	459	406	342	274	178	83	26	0
-37.5°	528	501	469	430	381	324	261	171	78	24	0
-42.5°	514	487	453	413	366	309	248	162	70	21	0
-47.5°	504	479	446	406	355	296	232	148	61	18	0
-55°	405	388	363	330	287	237	182	117	44	14	0
-65°	177	168	156	142	125	97	84	52	29	5	0
-75°	15	16	12	17	18	11	12	16	9	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	90°
90°	0
85°	0
75°	0
65°	0
55°	0
47.5°	0
42.5°	0
37.5°	0
33°	0
29°	0
25.5°	0
22.5°	0
19.5°	0
17°	0
15°	0
13°	0
11°	0
9°	0
7°	0
5°	0
3°	0
1°	0
0°	0
-1°	0
-3°	0
-5°	0
-7°	0
-9°	0
-11°	0
-13°	0
-15°	0
-17°	0
-19.5°	0
-22.5°	0
-25.5°	0
-29°	0
-33°	0
-37.5°	0
-42.5°	0
-47.5°	0
-55°	0
-65°	0
-75°	0
-85°	0
-90°	0

(END OF REPORT)