Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P634789

Luminaire Tested: GWS-SA3C-740-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Report Generated By 670246102 / DESKTOP-G35701P

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P634789
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3C-740-U-SL3-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(48) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11682 lumens
Efficiency:	N/A
Efficacy:	125.6 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G2

Input Watts (W):	93
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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REPORT NUMBER: P634789
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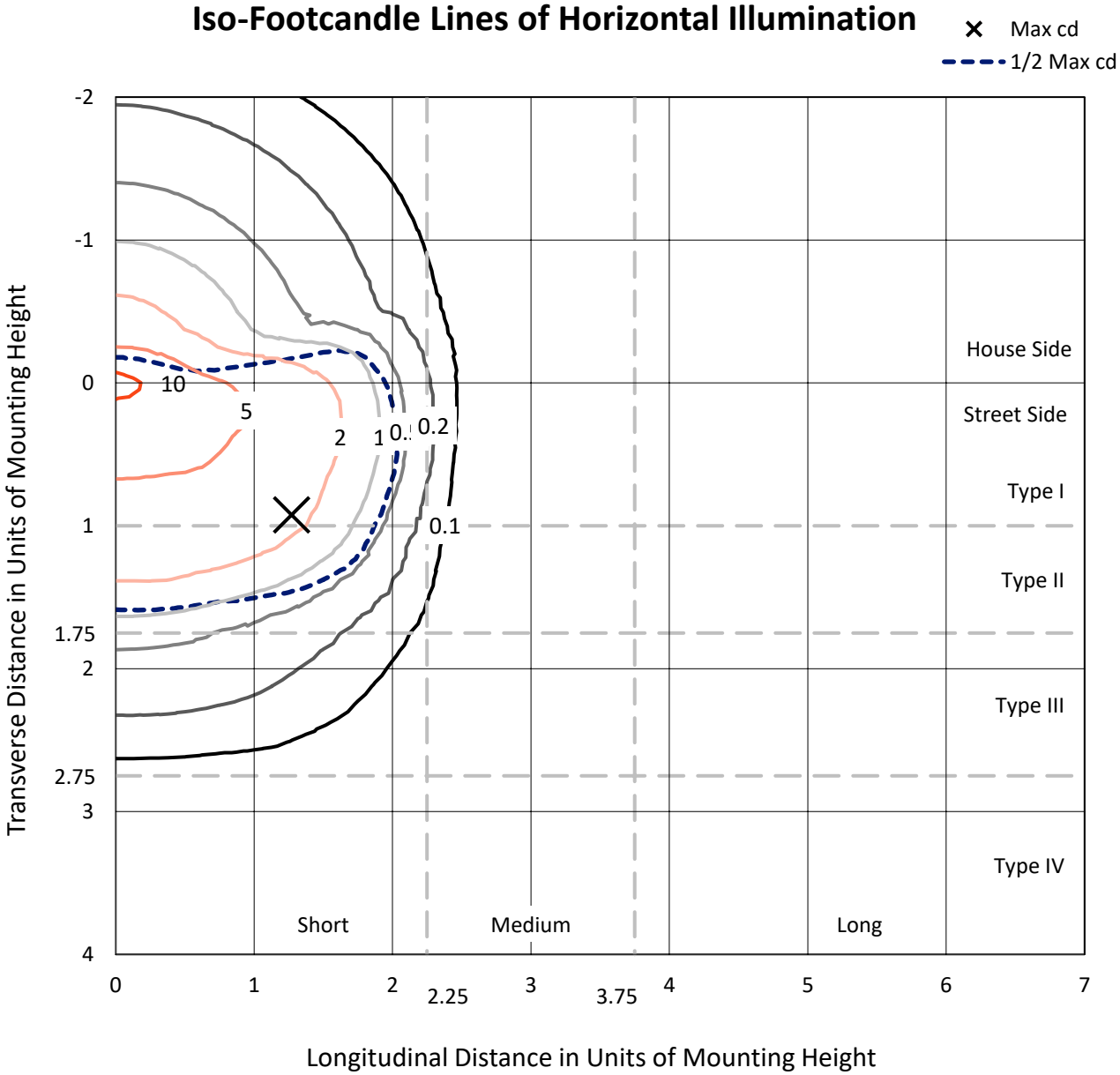
Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 11.2 fc
Type II - Short - N/A

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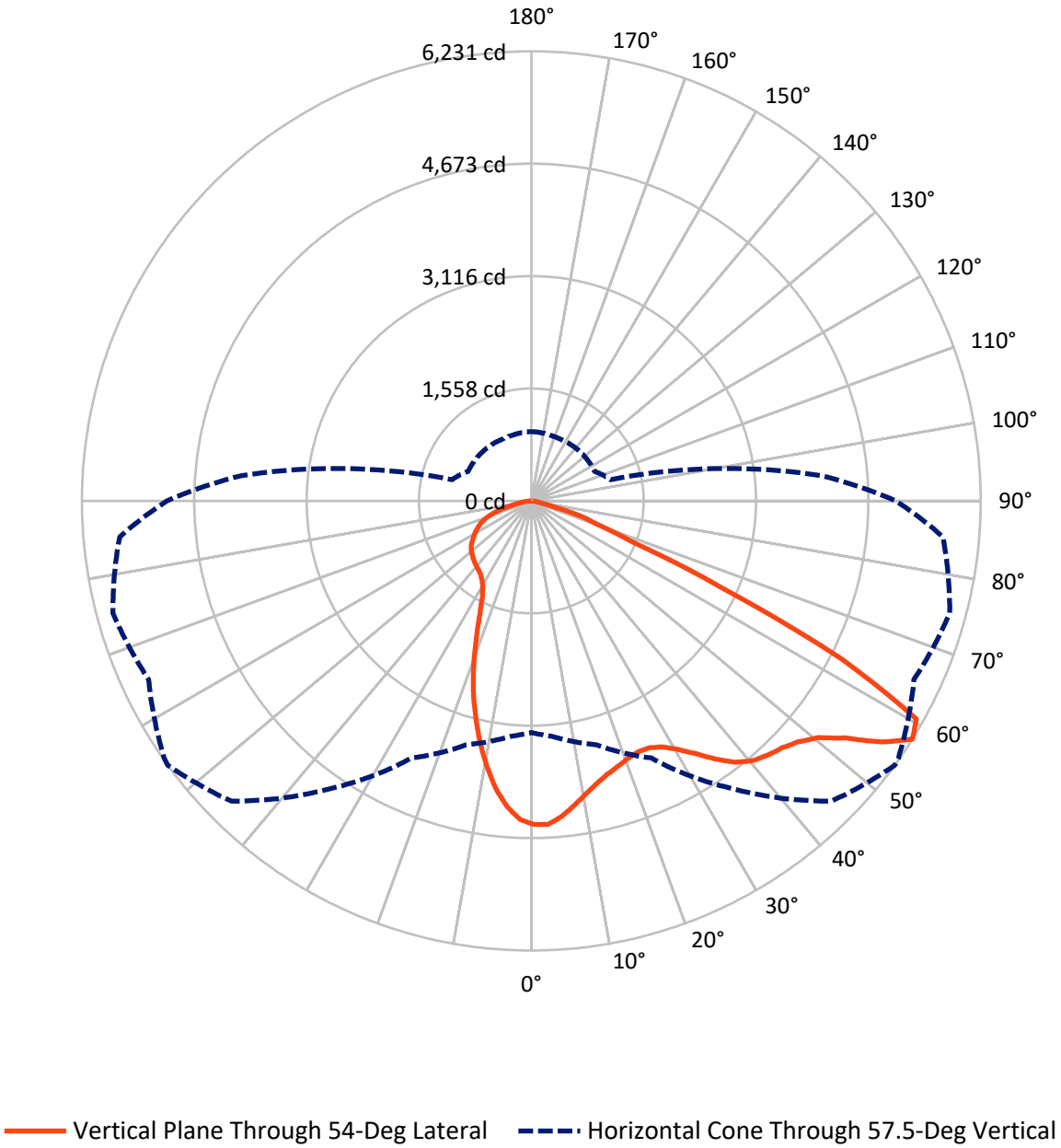
Luminous Intensity Polar Plot



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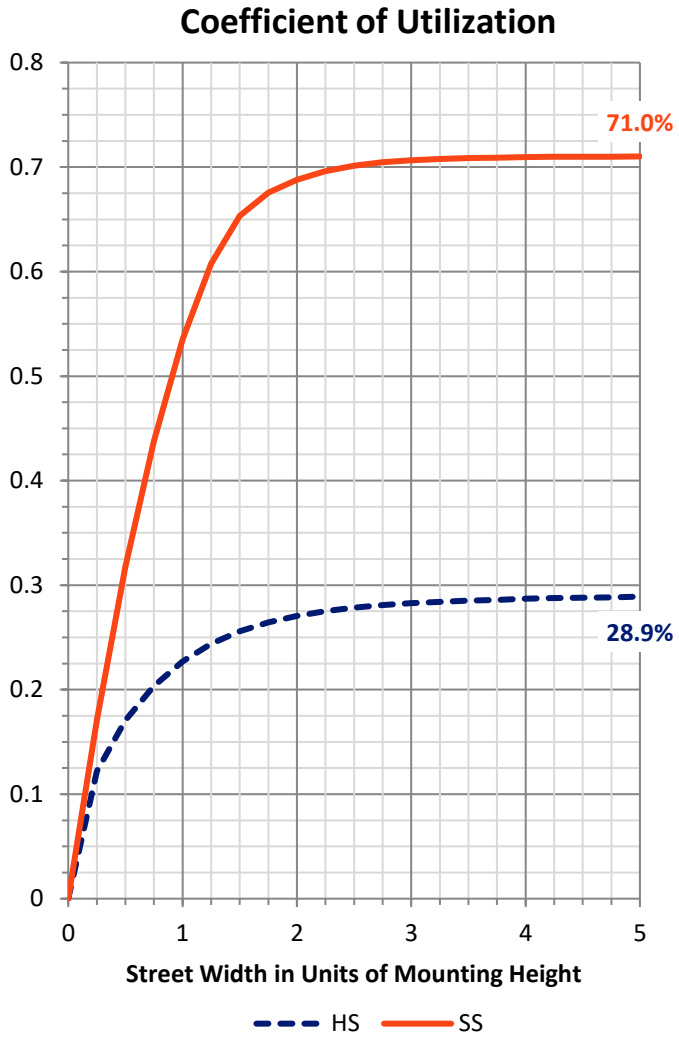
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3396.1	0.0	3396.1
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	8285.9	0.0	8285.9
	% Fixture	70.9	0.0	70.9
Total	Lumens	11682.0	0.0	11682.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.2	3.4
10°-20°	940.7	8.1
20°-30°	1301.8	11.1
30°-40°	1808.8	15.5
40°-50°	2388.9	20.4
50°-60°	2838.8	24.3
60°-70°	1572.7	13.5
70°-80°	391.6	3.4
80°-90°	44.5	0.4
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°	11682.0	100.0
0°-180°	11682.0	100.0



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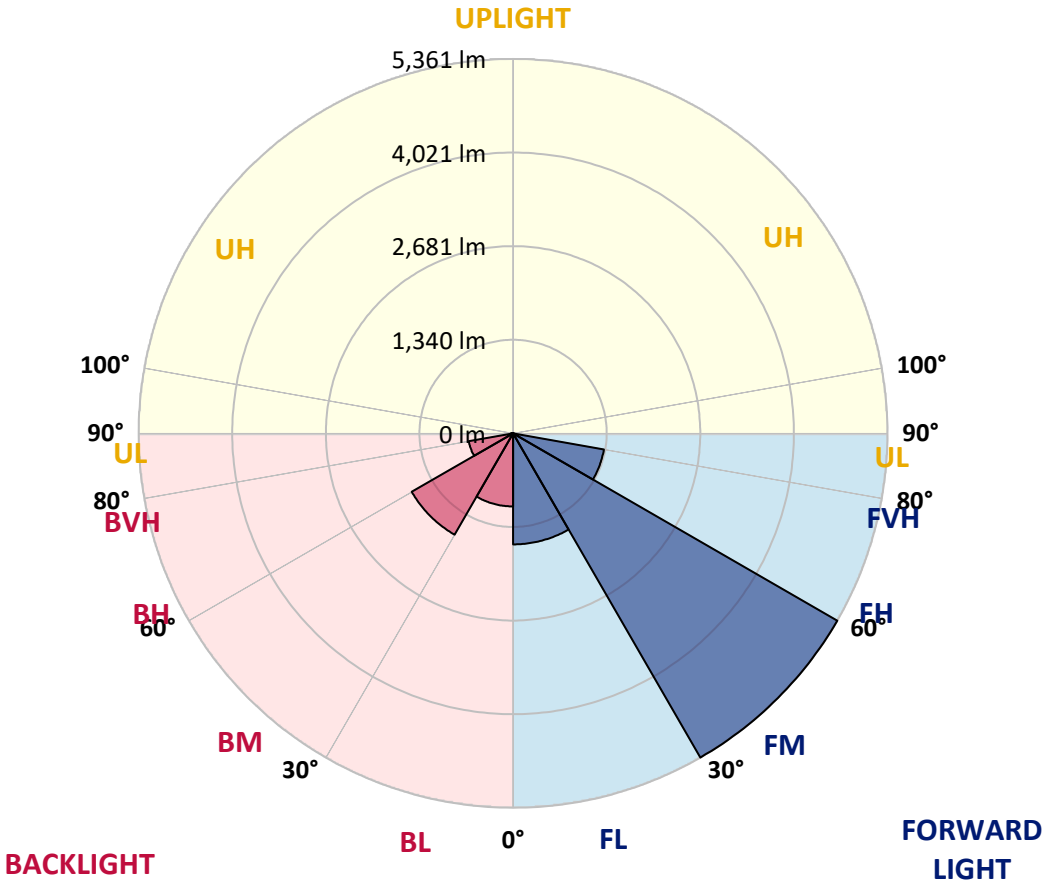
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1590.1	13.6			
FM	(30°-60°)	5361.1	45.9			
FH	(60°-80°)	1320.8	11.3			G1/1800
FVH	(80°-90°)	13.9	0.1			G1/100
BL	(0°-30°)	1046.5	9.0	B3/2500		
BM	(30°-60°)	1675.4	14.3	B2/2500		
BH	(60°-80°)	643.6	5.5	B2/1000		G2/1000
BVH	(80°-90°)	30.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
Type II Short



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REPORT NUMBER: P634789
CATALOG NUMBER: GWS-SA3C-740-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4485	4485	4485	4485	4485	4485	4485	4485	4485	4485	4485
2.5°	4401	4410	4416	4437	4455	4471	4488	4488	4487	4484	4478
5°	4227	4237	4251	4280	4319	4347	4393	4397	4417	4425	4421
7.5°	4025	4028	4046	4084	4146	4196	4262	4270	4318	4346	4341
10°	3804	3794	3826	3882	3963	4047	4132	4139	4216	4269	4265
12.5°	3602	3603	3635	3703	3804	3908	4022	4038	4133	4201	4194
15°	3433	3437	3476	3553	3668	3792	3934	3949	4069	4159	4139
17.5°	3298	3302	3336	3424	3547	3697	3870	3885	4034	4141	4100
20°	3205	3203	3236	3320	3447	3610	3814	3836	4023	4148	4074
22.5°	3167	3166	3190	3259	3378	3543	3780	3810	4035	4179	4058
25°	3186	3182	3203	3254	3349	3517	3790	3822	4086	4243	4061
27.5°	3245	3240	3258	3304	3376	3544	3860	3897	4194	4360	4101
30°	3335	3332	3350	3394	3457	3634	3994	4036	4361	4542	4188
32.5°	3440	3435	3467	3518	3591	3798	4174	4229	4559	4776	4334
35°	3558	3554	3598	3672	3777	4026	4392	4452	4761	5041	4528
37.5°	3673	3673	3758	3868	4000	4274	4597	4635	4901	5276	4736
40°	3775	3781	3909	4074	4242	4498	4732	4764	4963	5438	4917
42.5°	3888	3893	4042	4258	4458	4679	4814	4830	4975	5519	5045
45°	3978	3985	4170	4401	4646	4815	4879	4893	4992	5563	5138
47.5°	4025	4035	4247	4516	4773	4937	4986	4992	5062	5640	5250
50°	4017	4037	4276	4573	4867	5060	5158	5168	5205	5753	5381
52.5°	4088	4097	4338	4641	5001	5287	5457	5471	5454	5838	5459
55°	3970	4013	4261	4631	5205	5638	5900	5893	5680	5933	5589
57.5°	3211	3274	3501	3931	4869	5884	6231	6214	5855	6006	5730
60°	2223	2233	2438	2743	3758	5198	6134	6171	5887	5914	5469
62.5°	1778	1775	1794	1802	2390	3654	4842	4977	4891	4608	3876
65°	1518	1529	1585	1556	1560	2058	2893	2912	2852	2750	2050
67.5°	1188	1207	1306	1419	1383	1325	1501	1492	1176	910	752
70°	744	756	862	1114	1204	1088	965	961	630	518	568
72.5°	434	436	466	621	799	744	710	684	405	413	453
75°	239	239	238	268	315	279	270	263	271	307	337
77.5°	50	51	54	71	92	112	141	142	177	205	229
80°	23	24	30	38	49	65	86	87	107	129	145
82.5°	12	13	16	20	26	34	48	48	64	76	86
85°	4	4	6	8	11	14	19	19	28	37	43
87.5°	0	0	0	0	1	2	4	4	5	6	10
90°	0	0	0	0	0	0	0	0	0	0	0

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REPORT NUMBER: P634789
CATALOG NUMBER: GWS-SA3C-740-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4485	4485	4485	4485	4485	4485	4485	4485	4485	4485	4485
2.5°	4465	4434	4435	4441	4422	4393	4374	4350	4335	4332	4343
5°	4401	4365	4340	4314	4260	4196	4146	4105	4078	4068	4056
7.5°	4313	4266	4203	4130	4032	3918	3838	3763	3711	3696	3689
10°	4225	4157	4045	3909	3746	3592	3447	3336	3248	3198	3214
12.5°	4134	4050	3875	3666	3439	3207	3017	2833	2691	2620	2599
15°	4054	3940	3696	3413	3111	2819	2544	2268	2088	1990	1963
17.5°	3986	3838	3507	3155	2794	2378	2040	1784	1661	1607	1603
20°	3919	3738	3320	2877	2428	1962	1660	1540	1496	1477	1476
22.5°	3859	3633	3123	2599	2064	1649	1483	1431	1419	1419	1417
25°	3808	3528	2921	2304	1735	1468	1391	1369	1374	1383	1384
27.5°	3787	3446	2726	2001	1508	1363	1328	1325	1339	1353	1355
30°	3809	3390	2526	1711	1372	1299	1283	1289	1306	1320	1320
32.5°	3877	3362	2322	1499	1293	1254	1249	1255	1268	1276	1277
35°	3992	3373	2111	1356	1242	1221	1220	1224	1229	1234	1235
37.5°	4137	3422	1885	1273	1209	1197	1195	1194	1195	1195	1196
40°	4279	3496	1683	1224	1186	1176	1171	1164	1163	1161	1160
42.5°	4384	3553	1522	1189	1165	1153	1147	1136	1135	1134	1133
45°	4463	3601	1388	1155	1143	1132	1119	1109	1111	1113	1113
47.5°	4552	3643	1290	1123	1116	1105	1089	1082	1089	1096	1096
50°	4660	3702	1210	1091	1088	1075	1061	1058	1066	1076	1076
52.5°	4739	3753	1153	1059	1059	1042	1030	1029	1038	1048	1049
55°	4887	3872	1133	1022	1018	1005	996	989	1000	1009	1009
57.5°	*5054*	*4030*	*1138*	*969*	*964*	*960*	*953*	*945*	*948*	*958*	*959*
60°	4700	3724	1083	916	913	911	902	888	892	900	901
62.5°	3283	2475	876	850	860	859	847	831	832	843	843
65°	1704	1339	769	790	805	799	779	765	763	777	774
67.5°	735	731	700	727	743	730	709	686	688	693	689
70°	592	610	623	652	665	641	618	605	594	593	586
72.5°	473	498	527	557	561	537	508	496	479	478	471
75°	356	377	400	424	424	401	382	376	356	350	344
77.5°	243	256	274	280	286	277	258	248	225	219	211
80°	153	162	173	177	183	172	157	146	130	125	121
82.5°	92	98	105	107	112	104	90	82	73	69	66
85°	47	50	54	55	54	46	41	37	31	30	28
87.5°	12	14	15	14	13	10	7	5	2	2	1
90°	0	0	0	0	0	0	0	0	0	0	0

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LM-79-08: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW, INVUE, LUMARK AND STREETWORKS

DATA VALID FOR LUMINIAIRES UTIZLIZING SA LIGHT ENGINES

Report Number: SP1-2101-121-2

Luminaire Tested: IFLD-S-SA2A-740-U-T3R-HSS

Test Date: 03/05/2021

Report Generated By controller / USPTCWHP6086842

Test Information

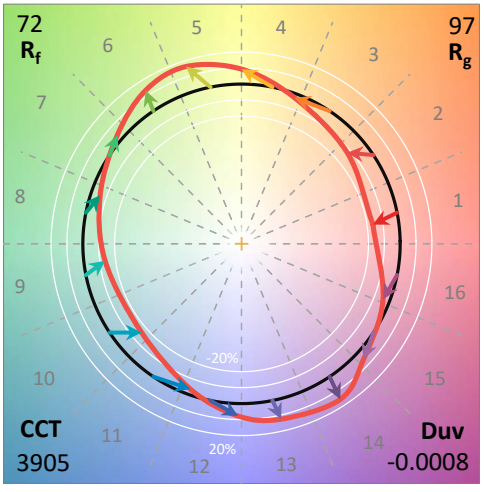
Test Method:	LM-79-08
Report Number:	SP1-2101-121-2
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1
Measurement Geometry:	4π
Issue Date:	03/05/2021
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	**IFLD-S-SA2A-740-U-T3R-HSS**
Description:	STREETWORKS INF FLOOD

SHIELD, DRIVER PROGRAMMED @ 615mA.

Spectral Parameters

CCT (K):	3905	CRI (Ra):	71.2		
CIE u':	0.2273	R1:	68.9	R9:	-29.7
CIE v':	0.5024	R2:	77.0	R10:	46.2
Duv:	-0.0008	R3:	84.0	R11:	68.8
CIE x:	0.3841	R4:	71.6	R12:	45.6
CIE y:	0.3774	R5:	68.9	R13:	69.5
CIE z:	0.2385	R6:	68.3	R14:	90.7
Peak Wavelength (nm):	443	R7:	78.7		
Dominant Wavelength (nm):	579	R8:	52.2		
Purity:	28.7				

Rf:	71.7
Rg:	96.9



Test Conditions

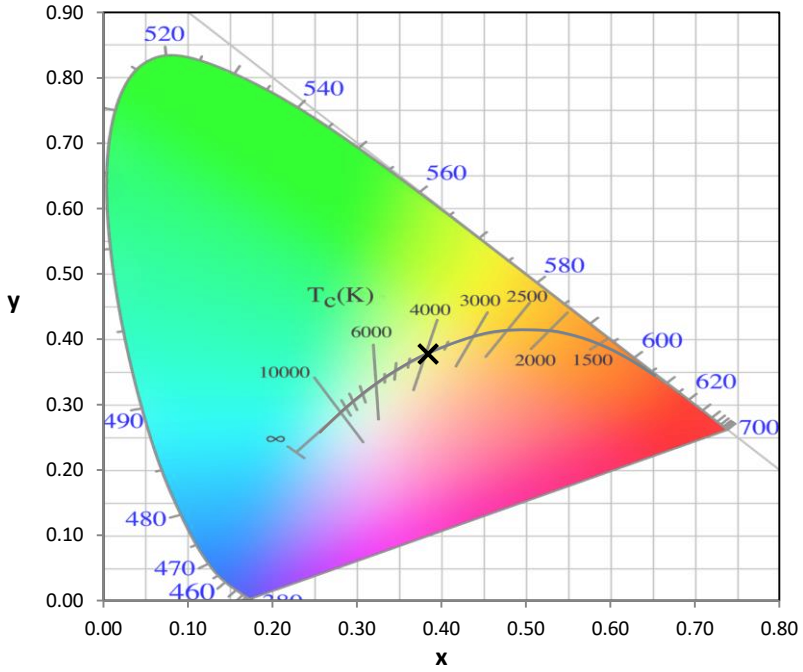
Stabilization Time:	211M
Operation Time:	12H
Room Temperature (°C) / RH%:	24.8/312%
Sphere Temperature (°C):	24.1

REPORT NUMBER: SP1-2101-121-2

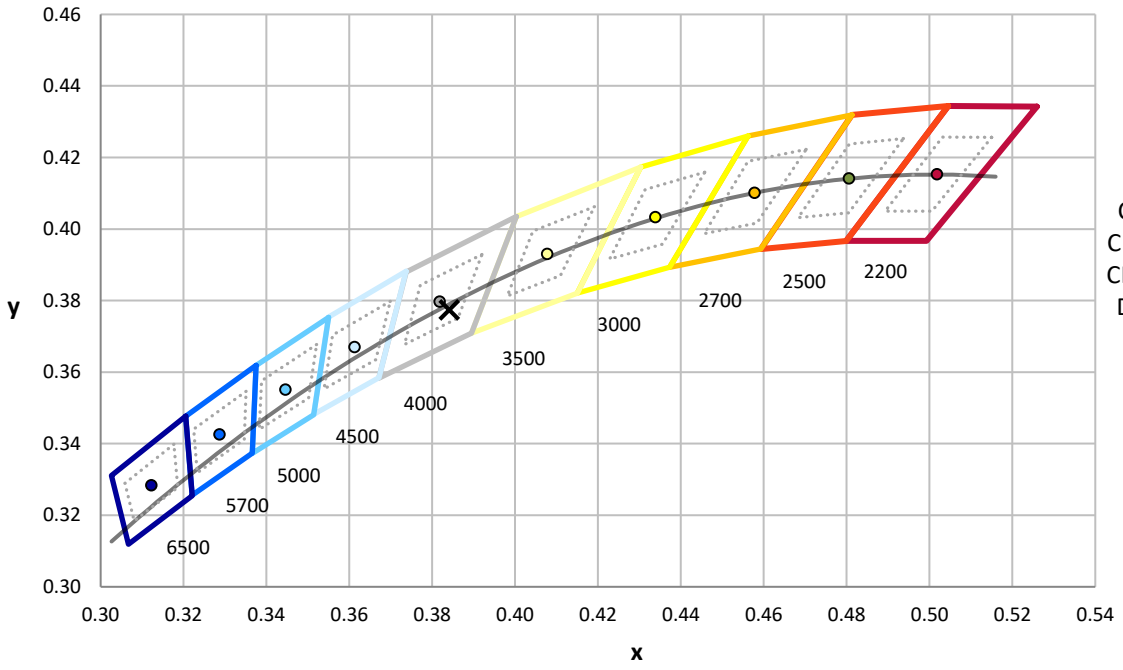
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	1/31/2021	7/31/2021
Power Meter	IN0071	12/1/2020	12/1/2021
AC Power Source	IN0063	12/1/2020	12/1/2021
DC Power Source	IN0208	12/1/2020	12/1/2021
Sphere Thermometer	IN0085	12/1/2020	12/1/2021
Room Thermometer	IN0046	12/1/2020	12/1/2021

REPORT NUMBER: SP1-2101-121-2

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

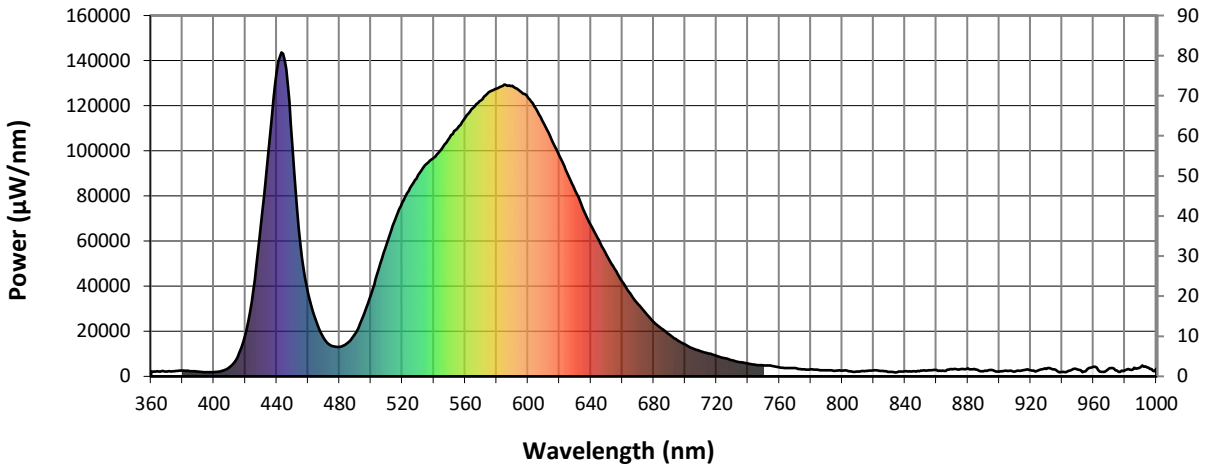


CCT = 3905K
CIE x = 0.3841
CIE y = 0.3774
Duv = -0.0008

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2101-121-2

Photopic Flux vs. Wavelength



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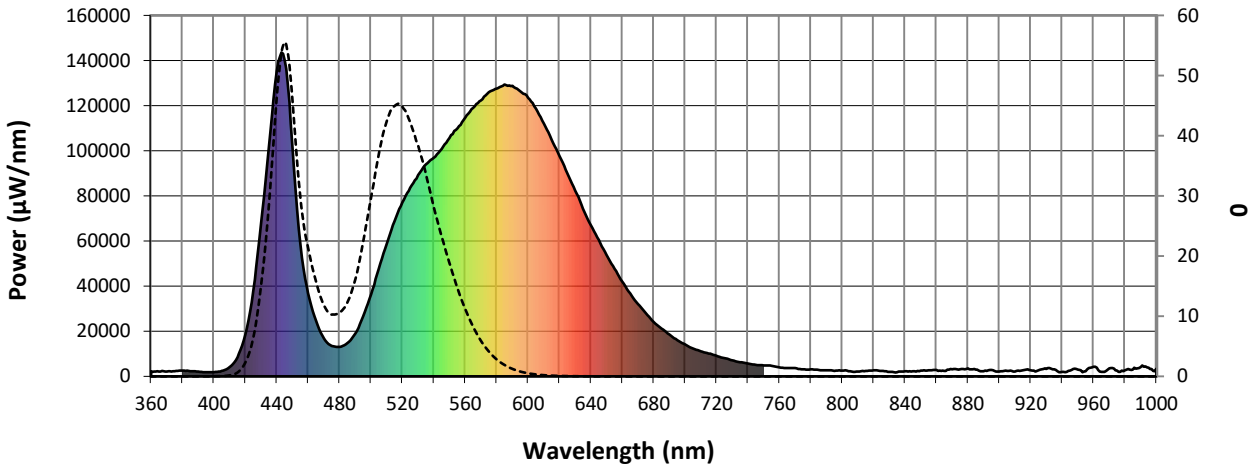
λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)
360	2304	0.0	490	19043	2.7	620	97577	25.4	750	4830	0.0	880	3505	0.0
365	2150	0.0	495	26606	4.8	625	90158	19.9	755	4664	0.0	885	2991	0.0
370	2146	0.0	500	36376	8.0	630	82240	14.9	760	4006	0.0	890	2327	0.0
375	2332	0.0	505	47714	13.3	635	74361	11.2	765	3715	0.0	895	2775	0.0
380	2527	0.0	510	58741	20.2	640	66994	8.0	770	3696	0.0	900	2141	0.0
385	2304	0.0	515	68716	28.5	645	60405	5.8	775	3117	0.0	905	2421	0.0
390	2064	0.0	520	77136	37.4	650	53806	3.9	780	3062	0.0	910	2200	0.0
395	1856	0.0	525	83567	44.9	655	47610	2.7	785	2907	0.0	915	2716	0.0
400	1856	0.0	530	89283	52.6	660	42018	1.8	790	2655	0.0	920	2656	0.0
405	2374	0.0	535	94097	58.4	665	36742	1.2	795	2467	0.0	925	2671	0.0
410	4084	0.0	540	96845	63.1	670	32105	0.7	800	2609	0.0	930	3292	0.0
415	8543	0.0	545	100829	67.1	675	27946	0.5	805	2293	0.0	935	3188	0.0
420	18394	0.1	550	105648	71.8	680	24146	0.3	810	2188	0.0	940	1997	0.0
425	37987	0.2	555	110017	75.1	685	21191	0.2	815	2386	0.0	945	2623	0.0
430	67605	0.5	560	114586	77.9	690	18544	0.1	820	2712	0.0	950	2969	0.0
435	102160	1.2	565	118987	79.1	695	16058	0.1	825	2473	0.0	955	2277	0.0
440	135103	2.1	570	122326	79.5	700	14133	0.0	830	1969	0.0	960	4267	0.0
445	140126	2.9	575	125968	78.4	705	12309	0.0	835	1917	0.0	965	2034	0.0
450	102339	2.7	580	127613	75.8	710	11142	0.0	840	2248	0.0	970	3586	0.0
455	58751	2.0	585	129466	71.9	715	10143	0.0	845	2266	0.0	975	2505	0.0
460	36892	1.5	590	128813	66.6	720	9072	0.0	850	2558	0.0	980	2666	0.0
465	24637	1.3	595	126387	59.9	725	8130	0.0	855	2767	0.0	985	2934	0.0
470	16738	1.0	600	123477	53.2	730	7149	0.0	860	2826	0.0	990	4120	0.0
475	13456	1.1	605	118718	46.0	735	6311	0.0	865	2385	0.0	995	3858	0.0
480	13081	1.2	610	112091	38.5	740	5711	0.0	870	3194	0.0	1000	3405	0.0
485	14734	1.7	615	105039	31.7	745	5111	0.0	875	3189	0.0			

REPORT NUMBER: SP1-2101-121-2

Scotopic Flux vs. Wavelength

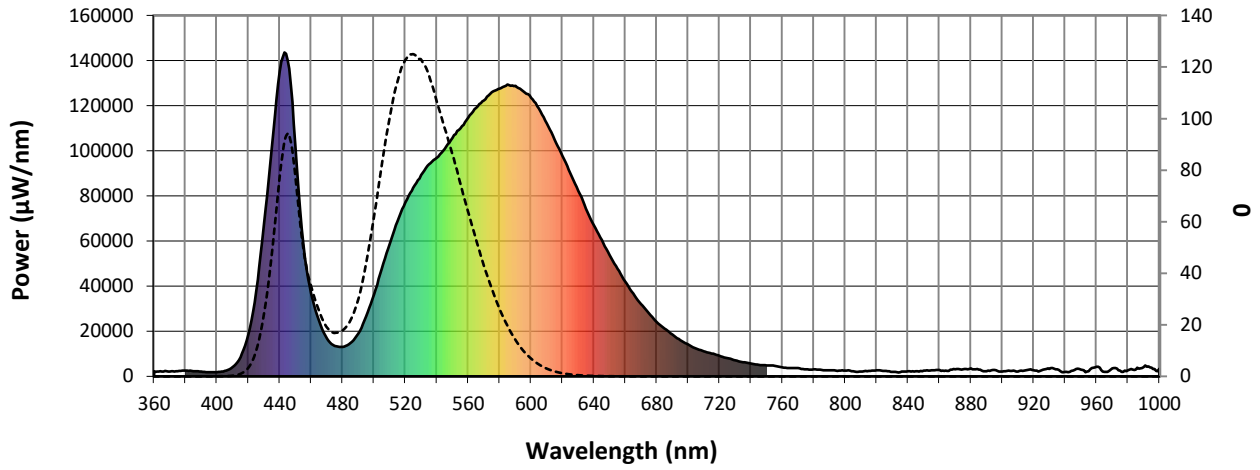


Scotopic Lumens: 10425.8 **S/P: 1.47**

λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)
360	2304	0.0	490	19043	29.3	620	97577	1.2	750	4830	0.0	880	3505	0.0
365	2150	0.0	495	26606	43.0	625	90158	0.8	755	4664	0.0	885	2991	0.0
370	2146	0.0	500	36376	60.8	630	82240	0.5	760	4006	0.0	890	2327	0.0
375	2332	0.0	505	47714	81.1	635	74361	0.3	765	3715	0.0	895	2775	0.0
380	2527	0.0	510	58741	99.6	640	66994	0.2	770	3696	0.0	900	2141	0.0
385	2304	0.0	515	68716	113.9	645	60405	0.1	775	3117	0.0	905	2421	0.0
390	2064	0.0	520	77136	122.6	650	53806	0.1	780	3062	0.0	910	2200	0.0
395	1856	0.0	525	83567	125.0	655	47610	0.0	785	2907	0.0	915	2716	0.0
400	1856	0.0	530	89283	123.1	660	42018	0.0	790	2655	0.0	920	2656	0.0
405	2374	0.1	535	94097	117.3	665	36742	0.0	795	2467	0.0	925	2671	0.0
410	4084	0.2	540	96845	107.0	670	32105	0.0	800	2609	0.0	930	3292	0.0
415	8543	0.9	545	100829	96.7	675	27946	0.0	805	2293	0.0	935	3188	0.0
420	18394	3.0	550	105648	86.4	680	24146	0.0	810	2188	0.0	940	1997	0.0
425	37987	9.3	555	110017	75.2	685	21191	0.0	815	2386	0.0	945	2623	0.0
430	67605	23.0	560	114586	64.0	690	18544	0.0	820	2712	0.0	950	2969	0.0
435	102160	45.7	565	118987	53.4	695	16058	0.0	825	2473	0.0	955	2277	0.0
440	135103	75.5	570	122326	43.2	700	14133	0.0	830	1969	0.0	960	4267	0.0
445	140126	93.8	575	125968	34.3	705	12309	0.0	835	1917	0.0	965	2034	0.0
450	102339	79.3	580	127613	26.3	710	11142	0.0	840	2248	0.0	970	3586	0.0
455	58751	51.3	585	129466	19.8	715	10143	0.0	845	2266	0.0	975	2505	0.0
460	36892	35.6	590	128813	14.3	720	9072	0.0	850	2558	0.0	980	2666	0.0
465	24637	26.0	595	126387	10.1	725	8130	0.0	855	2767	0.0	985	2934	0.0
470	16738	19.3	600	123477	7.0	730	7149	0.0	860	2826	0.0	990	4120	0.0
475	13456	16.8	605	118718	4.7	735	6311	0.0	865	2385	0.0	995	3858	0.0
480	13081	17.7	610	112091	3.0	740	5711	0.0	870	3194	0.0	1000	3405	0.0
485	14734	21.4	615	105039	1.9	745	5111	0.0	875	3189	0.0			

REPORT NUMBER: SP1-2101-121-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: 3927.2 **M/P: 0.55**

λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)
360	2304	0.0	490	19043	15.8	620	97577	0.1	750	4830	0.0	880	3505	0.0
365	2150	0.0	495	26606	22.0	625	90158	0.0	755	4664	0.0	885	2991	0.0
370	2146	0.0	500	36376	29.2	630	82240	0.0	760	4006	0.0	890	2327	0.0
375	2332	0.0	505	47714	36.6	635	74361	0.0	765	3715	0.0	895	2775	0.0
380	2527	0.0	510	58741	42.2	640	66994	0.0	770	3696	0.0	900	2141	0.0
385	2304	0.0	515	68716	44.9	645	60405	0.0	775	3117	0.0	905	2421	0.0
390	2064	0.0	520	77136	44.9	650	53806	0.0	780	3062	0.0	910	2200	0.0
395	1856	0.0	525	83567	42.4	655	47610	0.0	785	2907	0.0	915	2716	0.0
400	1856	0.0	530	89283	38.6	660	42018	0.0	790	2655	0.0	920	2656	0.0
405	2374	0.0	535	94097	33.9	665	36742	0.0	795	2467	0.0	925	2671	0.0
410	4084	0.2	540	96845	28.3	670	32105	0.0	800	2609	0.0	930	3292	0.0
415	8543	0.6	545	100829	23.4	675	27946	0.0	805	2293	0.0	935	3188	0.0
420	18394	2.1	550	105648	19.0	680	24146	0.0	810	2188	0.0	940	1997	0.0
425	37987	5.9	555	110017	14.8	685	21191	0.0	815	2386	0.0	945	2623	0.0
430	67605	14.3	560	114586	11.3	690	18544	0.0	820	2712	0.0	950	2969	0.0
435	102160	27.3	565	118987	8.4	695	16058	0.0	825	2473	0.0	955	2277	0.0
440	135103	45.1	570	122326	6.0	700	14133	0.0	830	1969	0.0	960	4267	0.0
445	140126	55.3	575	125968	4.2	705	12309	0.0	835	1917	0.0	965	2034	0.0
450	102339	47.2	580	127613	2.9	710	11142	0.0	840	2248	0.0	970	3586	0.0
455	58751	30.8	585	129466	1.9	715	10143	0.0	845	2266	0.0	975	2505	0.0
460	36892	21.7	590	128813	1.3	720	9072	0.0	850	2558	0.0	980	2666	0.0
465	24637	16.1	595	126387	0.8	725	8130	0.0	855	2767	0.0	985	2934	0.0
470	16738	12.0	600	123477	0.5	730	7149	0.0	860	2826	0.0	990	4120	0.0
475	13456	10.3	605	118718	0.3	735	6311	0.0	865	2385	0.0	995	3858	0.0
480	13081	10.5	610	112091	0.2	740	5711	0.0	870	3194	0.0	1000	3405	0.0
485	14734	12.1	615	105039	0.1	745	5111	0.0	875	3189	0.0			

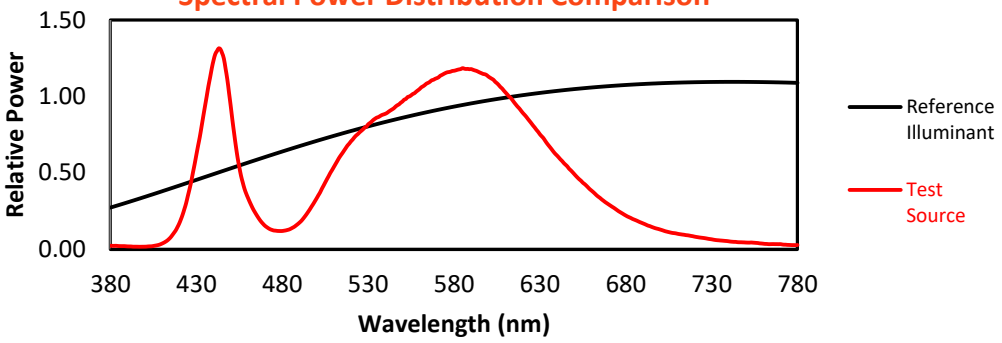
REPORT NUMBER: SP1-2101-121-2

TM-30-18

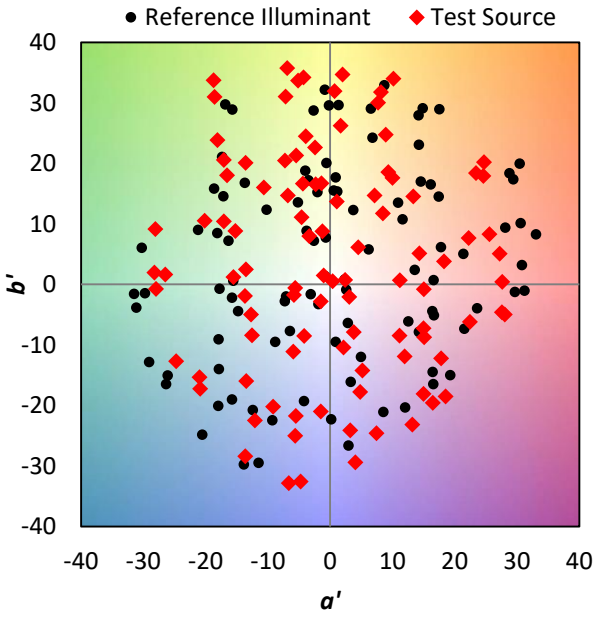
Summary

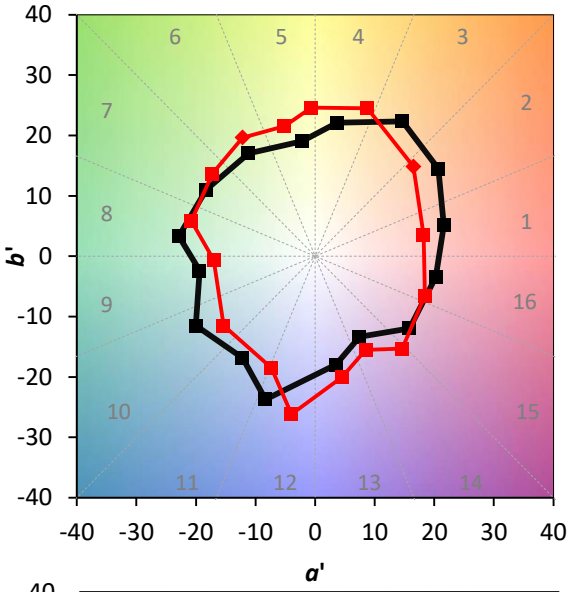
R_f = 71.7
R_g = 96.9
CIE R_a = 71.2
R_9 = -29.7

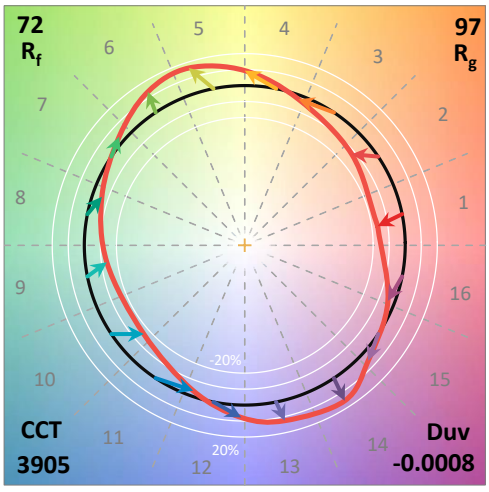
Spectral Power Distribution Comparison

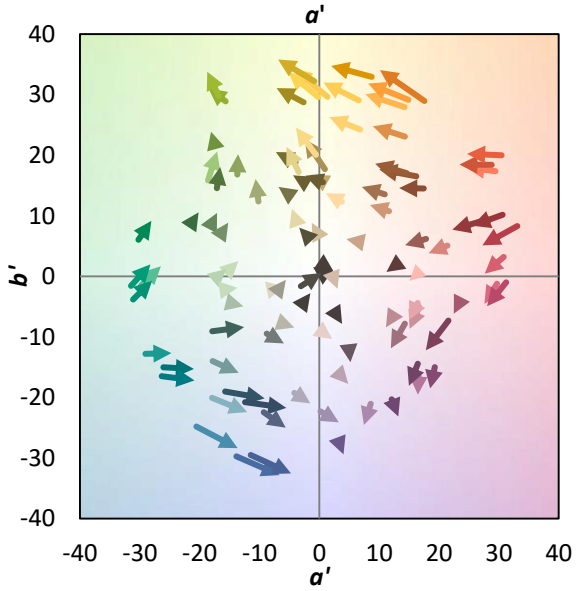


Color Vector Graphics







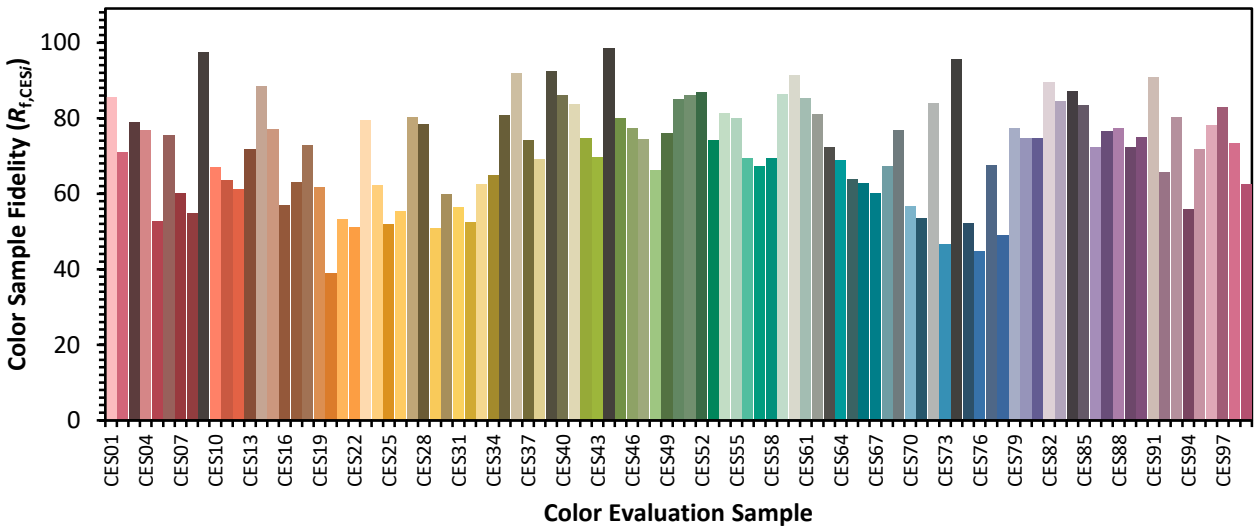


REPORT NUMBER: SP1-2101-121-2

TM-30-18

Individual Sample Fidelity Index ($R_{f,i}$)

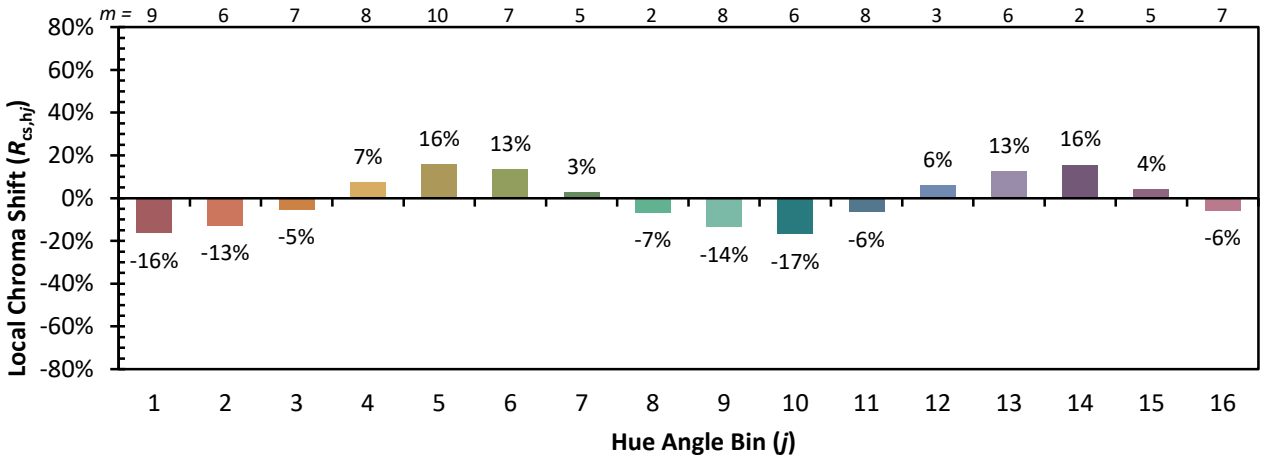
CES01 = 85	CES26 = 55	CES51 = 86	CES76 = 45
CES02 = 61	CES27 = 80	CES52 = 87	CES77 = 68
CES03 = 30	CES28 = 79	CES53 = 74	CES78 = 49
CES04 = 70	CES29 = 51	CES54 = 81	CES79 = 77
CES05 = 47	CES30 = 60	CES55 = 80	CES80 = 75
CES06 = 50	CES31 = 56	CES56 = 69	CES81 = 75
CES07 = 40	CES32 = 52	CES57 = 67	CES82 = 90
CES08 = 39	CES33 = 62	CES58 = 69	CES83 = 85
CES09 = 29	CES34 = 65	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 81	CES60 = 91	CES85 = 83
CES11 = 57	CES36 = 92	CES61 = 85	CES86 = 72
CES12 = 63	CES37 = 74	CES62 = 81	CES87 = 77
CES13 = 42	CES38 = 69	CES63 = 72	CES88 = 77
CES14 = 74	CES39 = 92	CES64 = 69	CES89 = 72
CES15 = 71	CES40 = 86	CES65 = 64	CES90 = 75
CES16 = 46	CES41 = 84	CES66 = 63	CES91 = 91
CES17 = 49	CES42 = 75	CES67 = 60	CES92 = 66
CES18 = 56	CES43 = 70	CES68 = 67	CES93 = 80
CES19 = 72	CES44 = 98	CES69 = 77	CES94 = 56
CES20 = 65	CES45 = 80	CES70 = 57	CES95 = 72
CES21 = 86	CES46 = 77	CES71 = 53	CES96 = 78
CES22 = 78	CES47 = 74	CES72 = 84	CES97 = 83
CES23 = 92	CES48 = 66	CES73 = 47	CES98 = 73
CES24 = 91	CES49 = 76	CES74 = 96	CES99 = 63
CES25 = 72	CES50 = 85	CES75 = 52	

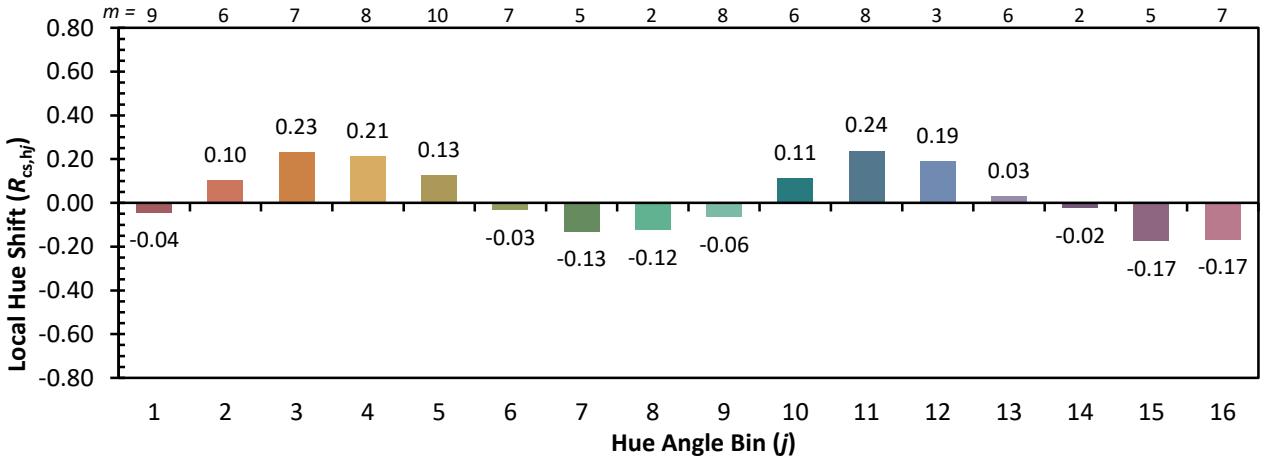


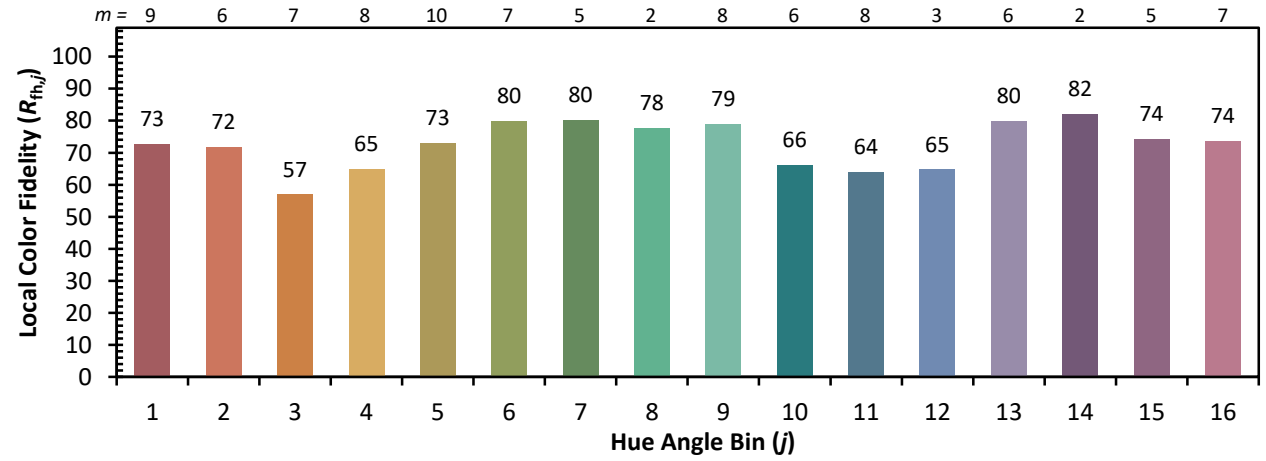
REPORT NUMBER: SP1-2101-121-2

TM-30-18

Color Rendition by Hue-Angle Bin



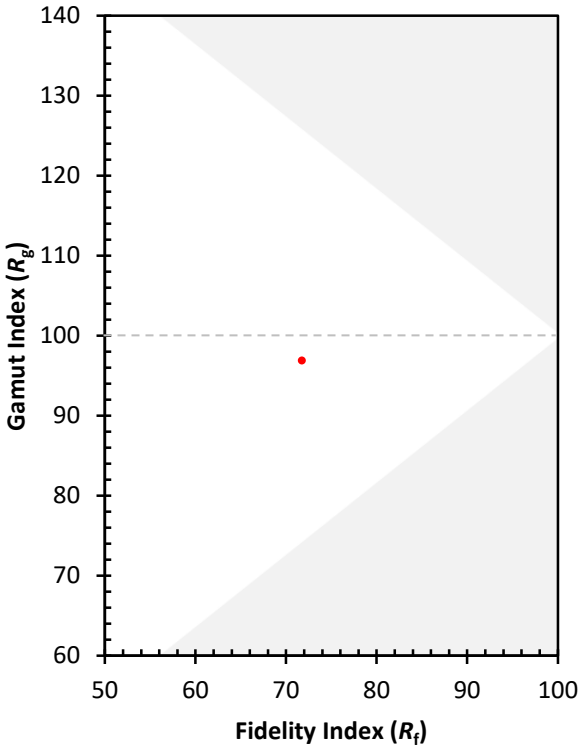


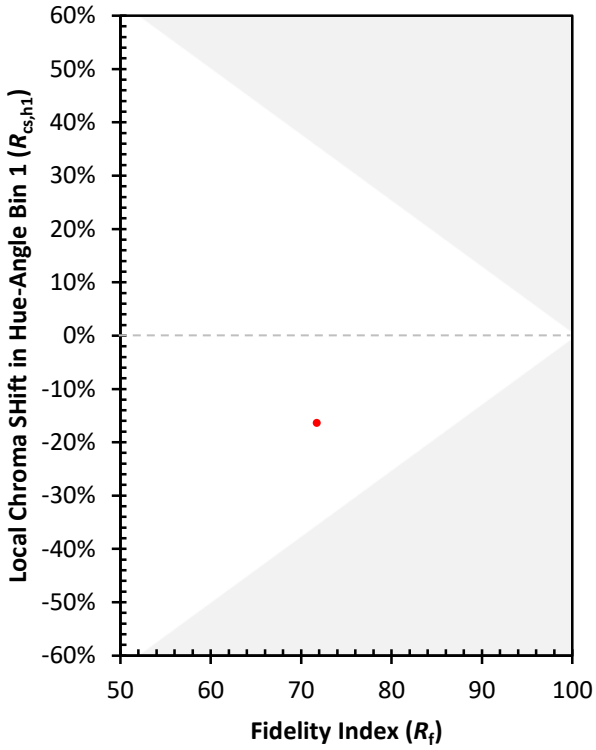


REPORT NUMBER: SP1-2101-121-2

TM-30-18

Measure Comparisons





(END OF REPORT)