

Signify Classified - Internal
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: P634802

Luminaire Tested: GWS-SA3C-740-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3C-740-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13923.9 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B3 - U0 - G3

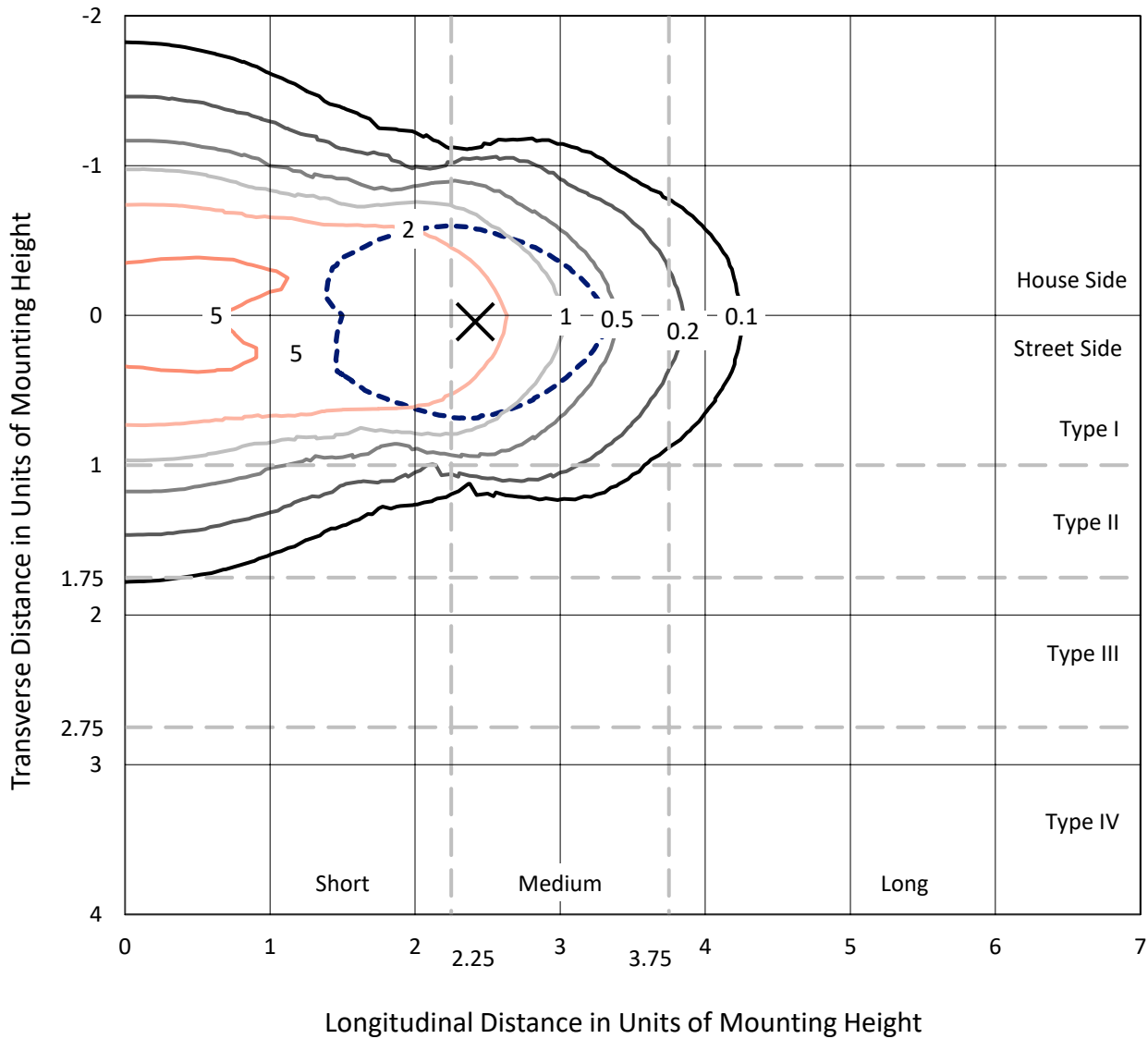
Input Watts (W): 93
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P634802
 CATALOG NUMBER: GWS-SA3C-740-U-T1-W

Iso-Footcandle Lines of Horizontal Illumination

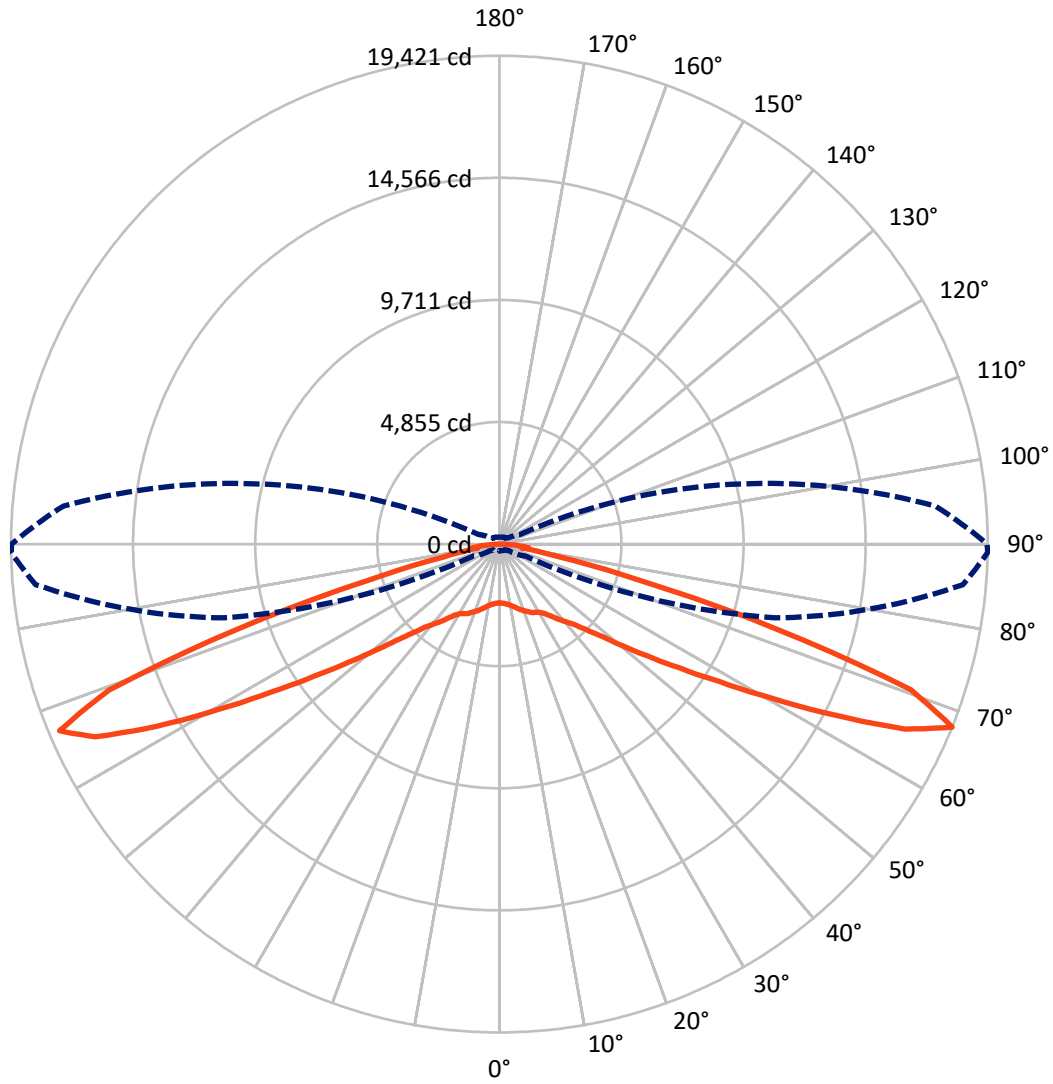
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 fc
 Type I - Medium - N/A

REPORT NUMBER: P634802
CATALOG NUMBER: GWS-SA3C-740-U-T1-W

Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P634802

CATALOG NUMBER: GWS-SA3C-740-U-T1-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6900.9	0.0	6900.9
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	7023.0	0.0	7023.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	13923.9	0.0	13923.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.4	1.7
10°-20°	763.3	5.5
20°-30°	1290.3	9.3
30°-40°	1770.8	12.7
40°-50°	2258.2	16.2
50°-60°	2833.3	20.3
60°-70°	3417.2	24.5
70°-80°	1236.2	8.9
80°-90°	120.2	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°	13923.9	100.0
0°-180°	13923.9	100.0

Coefficient of Utilization



REPORT NUMBER: P634802

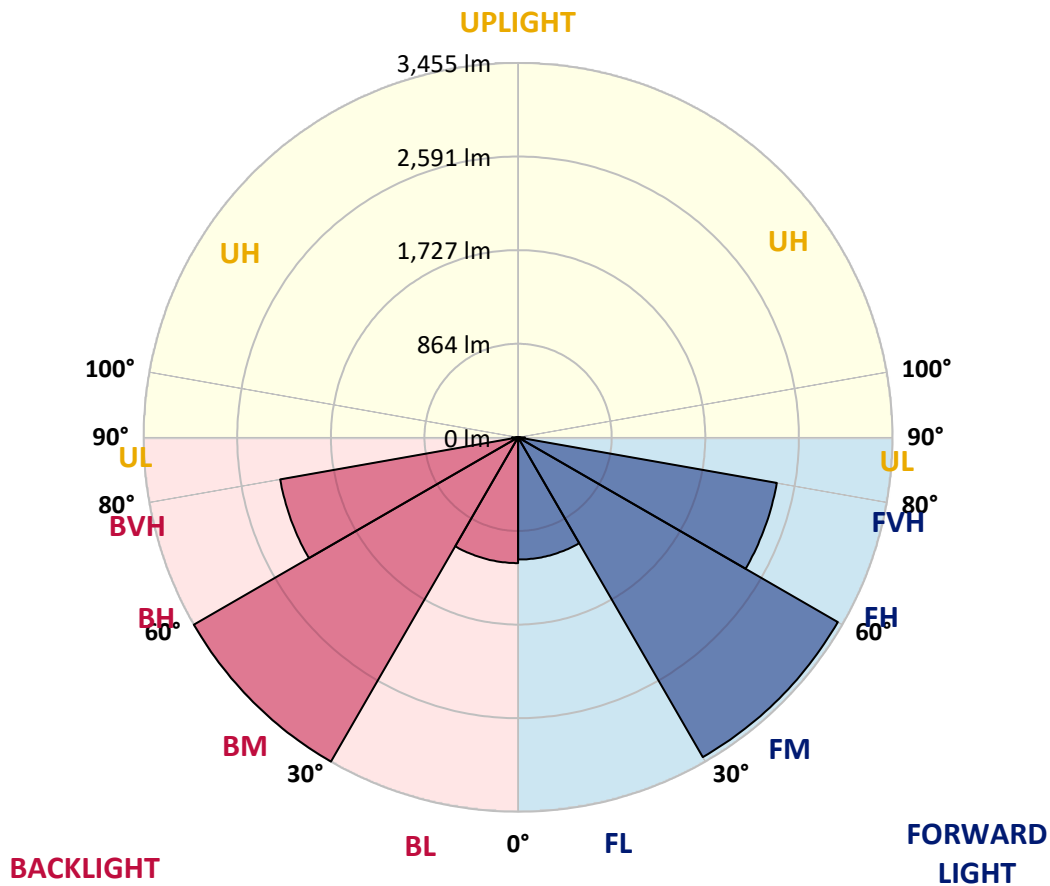
CATALOG NUMBER: GWS-SA3C-740-U-T1-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1127.7	8.1			
FM (30°-60°)	3407.5	24.5			
FH (60°-80°)	2424.4	17.4			G2/5000
FVH (80°-90°)	63.4	0.5			G1/100
BL (0°-30°)	1160.3	8.3	B3/2500		
BM (30°-60°)	3454.8	24.8	B3/5000		
BH (60°-80°)	2229.0	16.0	B3/2500		G3/2500
BVH (80°-90°)	56.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Medium





REPORT NUMBER: P634802
 CATALOG NUMBER: GWS-SA3C-740-U-T1-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	2337	2337	2337	2337	2337	2337	2337	2337	2337	2337	2337
2.5°	2344	2342	2337	2352	2349	2350	2356	2352	2345	2333	2350
5°	2410	2409	2398	2407	2397	2390	2389	2379	2371	2358	2376
7.5°	2474	2473	2464	2480	2472	2464	2455	2435	2416	2397	2417
10°	2523	2522	2520	2543	2545	2548	2544	2510	2477	2454	2474
12.5°	2551	2554	2559	2601	2622	2642	2647	2619	2564	2531	2555
15°	2532	2538	2563	2639	2697	2742	2761	2738	2667	2612	2639
17.5°	2441	2446	2495	2611	2739	2843	2874	2860	2781	2714	2740
20°	2315	2326	2379	2541	2732	2913	2996	2991	2905	2802	2833
22.5°	2201	2214	2270	2449	2685	2931	3119	3132	3018	2890	2915
25°	2073	2085	2157	2340	2604	2917	3224	3283	3146	2991	3014
27.5°	1942	1951	2022	2217	2498	2891	3307	3449	3272	3061	3077
30°	1827	1839	1904	2094	2382	2839	3375	3626	3417	3140	3153
32.5°	1716	1726	1797	1973	2259	2759	3436	3834	3632	3287	3287
35°	1576	1594	1674	1857	2143	2653	3480	4076	3926	3504	3505
37.5°	1447	1457	1541	1726	2021	2533	3484	4327	4298	3780	3782
40°	1300	1313	1403	1586	1881	2407	3446	4561	4688	4064	4053
42.5°	1151	1170	1256	1435	1730	2253	3345	4784	5183	4393	4366
45°	1007	1019	1105	1274	1557	2069	3183	4998	5771	4893	4854
47.5°	845	850	939	1101	1378	1864	2951	5189	6417	5555	5488
50°	701	708	778	917	1159	1621	2662	5301	7240	6458	6342
52.5°	567	574	630	741	958	1344	2304	5275	8075	7579	7410
55°	458	463	501	588	754	1069	1881	5042	9002	9043	8679
57.5°	387	389	415	468	589	824	1452	4492	9974	10911	10313
60°	346	347	359	392	465	629	1064	3616	10981	13248	12428
62.5°	320	320	330	349	386	484	782	2597	11704	15791	14976
65°	295	295	302	318	338	395	587	1675	12059	17917	17736
67.5°	263	264	269	286	304	330	445	1133	11322	18505	19421
70°	233	234	241	252	267	285	348	781	8241	15412	17365
72.5°	200	204	209	221	230	243	284	506	4795	9914	11479
75°	164	169	175	187	193	198	234	361	2307	5024	5721
77.5°	127	132	139	150	154	160	179	261	1105	2227	2401
80°	85	87	93	106	113	117	132	178	480	894	886
82.5°	52	53	55	63	66	70	86	109	229	1016	1165
85°	19	18	17	22	26	30	40	55	100	698	781
87.5°	0	0	0	1	2	2	4	8	24	261	179
90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P634802
 CATALOG NUMBER: GWS-SA3C-740-U-T1-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2337	2337	2337	2337	2337	2337	2337	2337	2337	2337	2337
2.5°	2345	2334	2348	2358	2380	2388	2390	2383	2383	2371	2373
5°	2372	2365	2388	2405	2437	2449	2457	2452	2455	2447	2449
7.5°	2413	2407	2447	2480	2513	2527	2534	2530	2531	2521	2524
10°	2470	2472	2520	2563	2607	2621	2624	2612	2602	2584	2585
12.5°	2548	2558	2626	2674	2719	2739	2717	2673	2632	2601	2597
15°	2633	2651	2749	2810	2859	2849	2784	2685	2604	2558	2549
17.5°	2735	2762	2885	2958	3000	2936	2800	2652	2539	2477	2465
20°	2831	2874	3029	3124	3129	2985	2793	2585	2443	2367	2351
22.5°	2919	2974	3180	3301	3236	3007	2750	2490	2327	2238	2224
25°	3015	3093	3356	3469	3343	2998	2660	2372	2187	2096	2086
27.5°	3081	3179	3533	3641	3431	2947	2544	2243	2059	1973	1959
30°	3157	3282	3728	3828	3485	2872	2420	2123	1940	1847	1837
32.5°	3295	3452	3970	4026	3502	2779	2301	2007	1816	1723	1709
35°	3517	3701	4310	4247	3489	2677	2188	1871	1689	1602	1588
37.5°	3797	4026	4689	4446	3453	2565	2054	1757	1575	1487	1479
40°	4058	4340	5114	4618	3380	2427	1925	1638	1452	1359	1341
42.5°	4385	4760	5606	4767	3260	2262	1780	1491	1298	1214	1192
45°	4882	5348	6178	4910	3081	2059	1598	1312	1129	1043	1026
47.5°	5502	6083	6798	4995	2809	1845	1392	1123	940	843	835
50°	6373	7152	7463	4980	2505	1591	1160	898	745	675	664
52.5°	7434	8494	8182	4800	2182	1302	904	705	591	541	532
55°	8765	10101	8939	4414	1774	997	710	556	478	448	444
57.5°	10413	12182	9668	3764	1334	761	547	459	422	404	403
60°	12588	14391	10301	2925	955	582	452	410	381	369	368
62.5°	15174	16397	10695	1992	718	464	398	372	355	348	347
65°	17832	17665	10507	1305	545	394	357	343	328	321	321
67.5°	19402	17397	9064	906	432	346	322	309	284	278	278
70°	17185	14097	5941	663	350	303	280	262	252	246	245
72.5°	11366	9173	3159	460	292	258	237	230	218	212	211
75°	5657	4818	1619	332	243	207	198	195	185	177	175
77.5°	2358	2145	755	241	185	167	159	159	148	139	135
80°	889	792	357	165	137	124	119	115	106	95	89
82.5°	1189	777	175	103	90	80	73	70	65	60	56
85°	770	552	79	53	45	34	30	28	25	22	20
87.5°	157	185	24	10	6	3	3	1	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0

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 UTILIZING SA LIGHT ENGINES

Report Number: SP1-2101-121-2

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

Test Date: 03/05/2021

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	R9:	-29.7
CIE u':	0.2273	R1:	68.9	R10:	46.2
CIE v':	0.5024	R2:	77.0	R11:	68.8
Duv:	-0.0008	R3:	84.0	R12:	45.6
CIE x:	0.3841	R4:	71.6	R13:	69.5
CIE y:	0.3774	R5:	68.9	R14:	90.7
CIE z:	0.2385	R6:	68.3		
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



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			

Summary

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



Color Vector Graphics



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	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)