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

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: INVUE

Report Number: P871039

Luminaire Tested: **EMM2-HSN-SA3A-830-U-T2R**

Issue Date: 09/05/2024

Report Generated By 670245763

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P871039
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	09/05/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	INVUE
Catalog Number:	EMM2-HSN-SA3A-830-U-T2R
Description:	EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 130W 80CRI 3000K FIXTURE w/ TYPE II ROADWAY DISTRIBUTION OPTIC
Light Source:	(30) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14823 lumens
Efficiency:	N/A
Efficacy:	131.2 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.33' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B3 - U0 - G3

Input Watts (W):	113
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	7.77%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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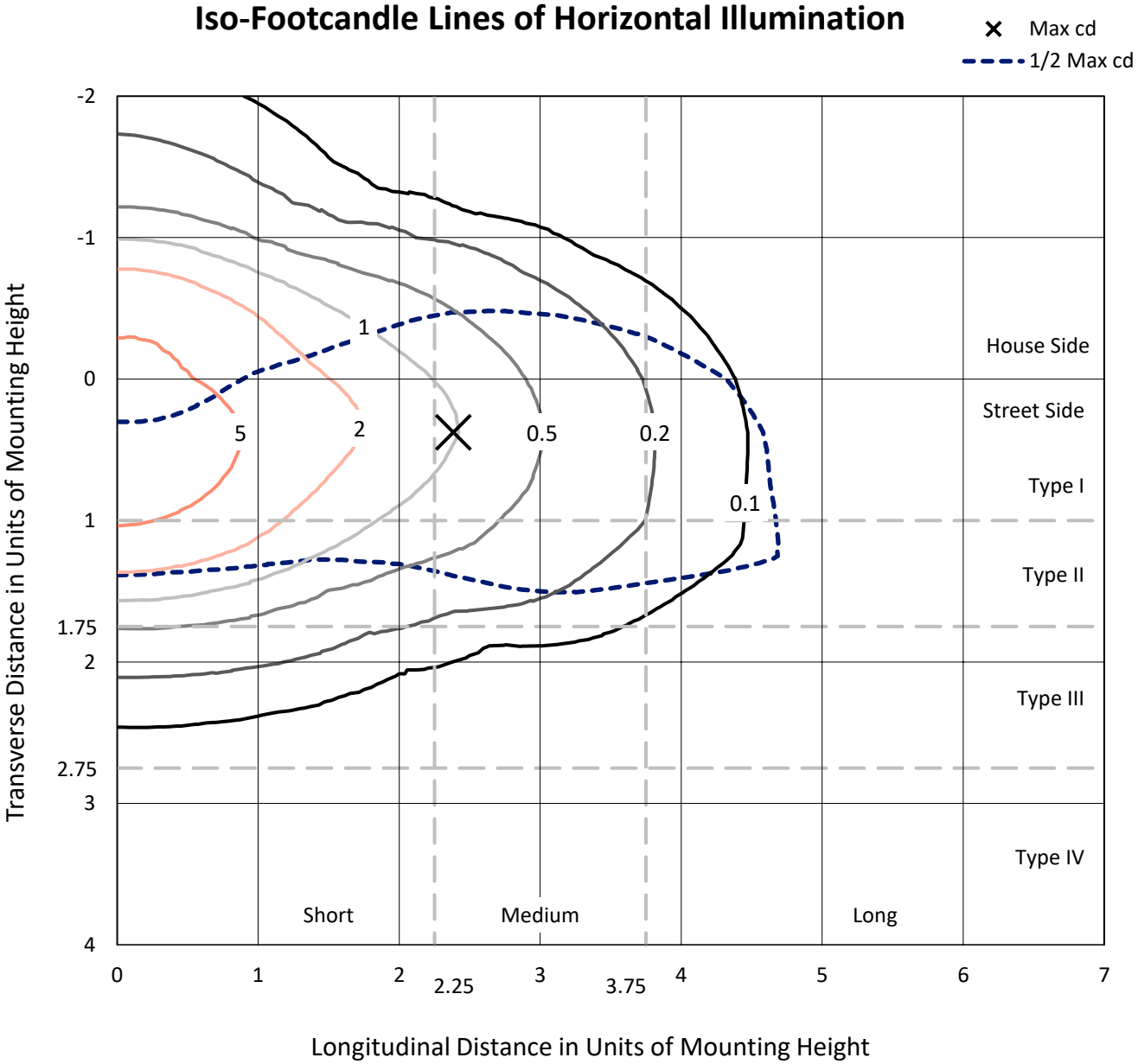
REPORT NUMBER: P871039
CATALOG NUMBER: EMM2-HSN-SA3A-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 9.4 fc
Type II - Medium - N/A

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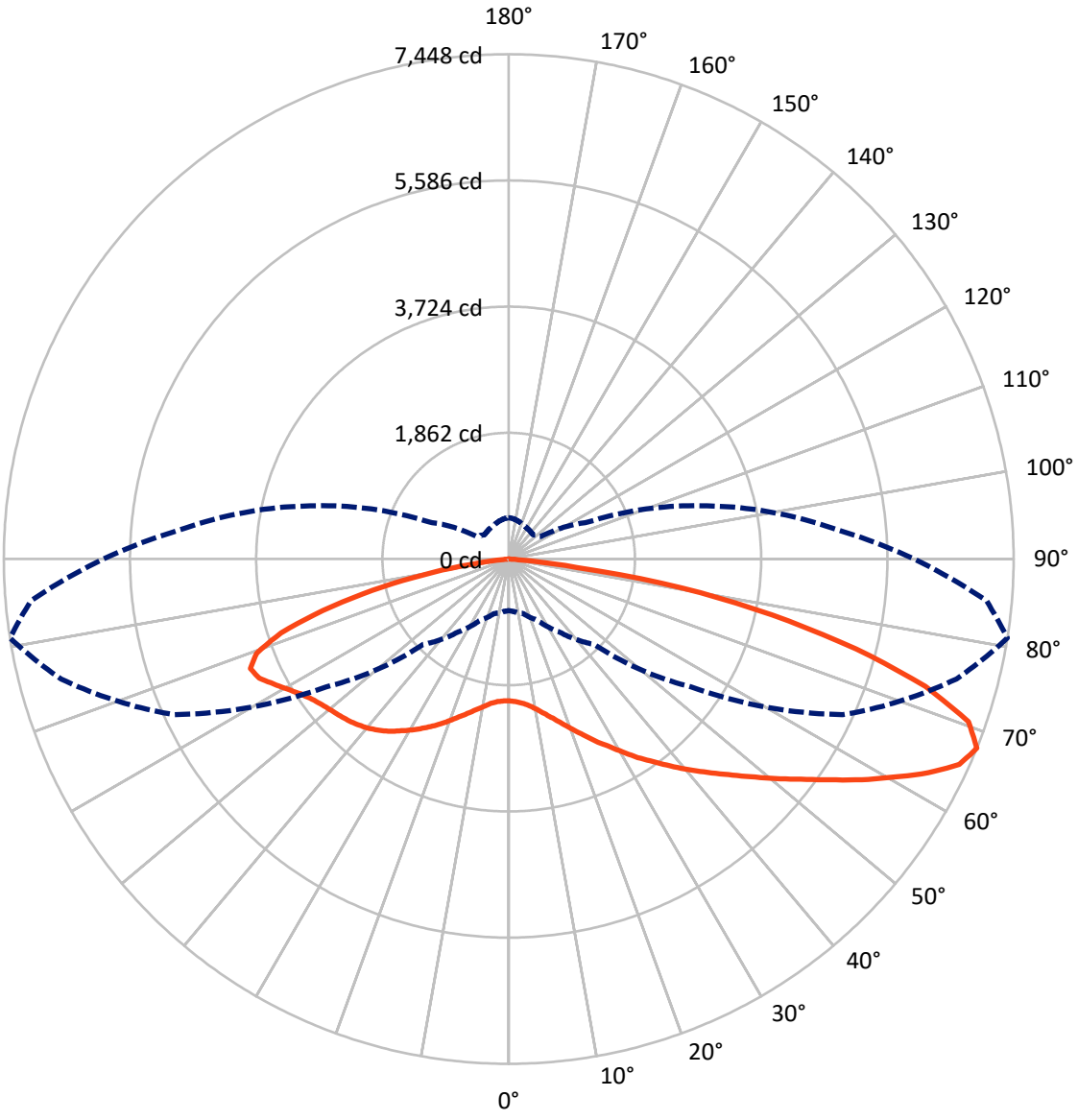
Luminous Intensity Polar Plot



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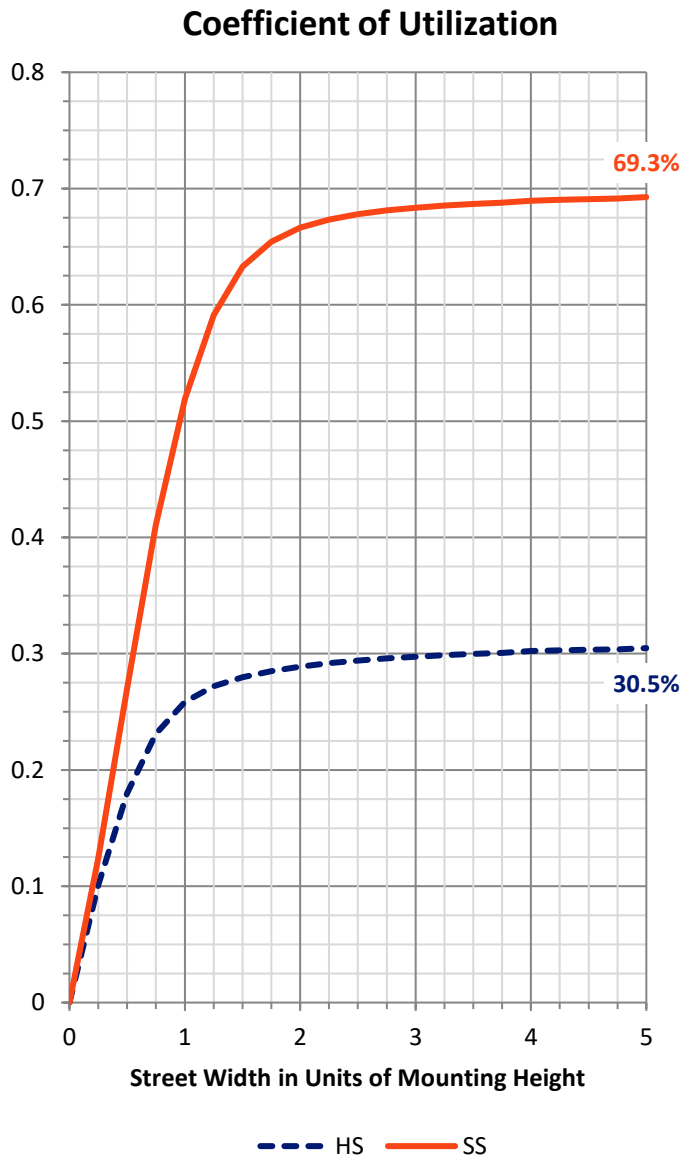
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4542.1	0.0	4542.1
	% Fixture	30.6	0.0	30.6
Street Side	Lumens	10280.9	0.0	10280.9
	% Fixture	69.4	0.0	69.4
Total	Lumens	14823.0	0.0	14823.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.4	1.4
10°-20°	757.6	5.1
20°-30°	1508.8	10.2
30°-40°	2370.4	16.0
40°-50°	2939.7	19.8
50°-60°	2873.7	19.4
60°-70°	2416.6	16.3
70°-80°	1535.5	10.4
80°-90°	207.3	1.4
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°	14823.0	100.0
0°-180°	14823.0	100.0



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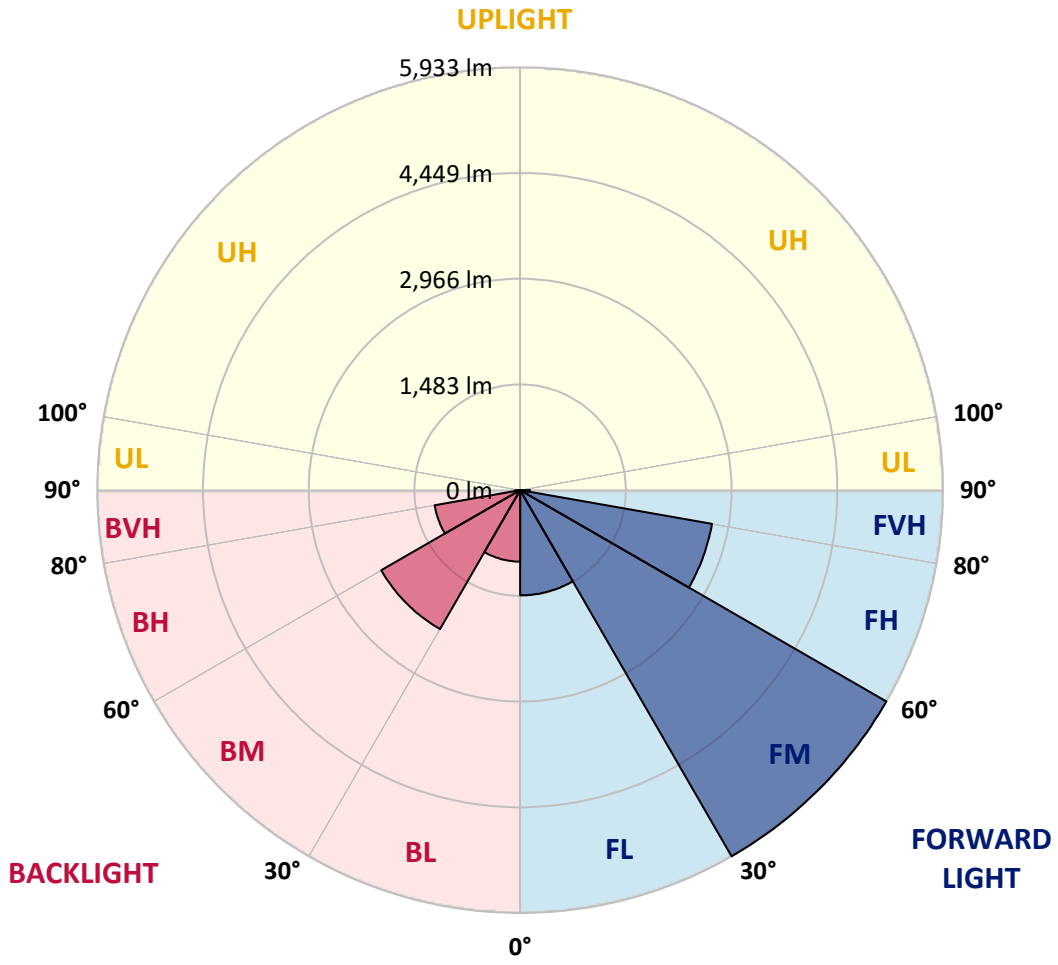
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1476.5	10.0			
FM	(30°-60°)	5932.6	40.0			
FH	(60°-80°)	2732.9	18.4			G2/5000
FVH	(80°-90°)	138.9	0.9			G2/225
BL	(0°-30°)	1003.3	6.8	B3/2500		
BM	(30°-60°)	2251.2	15.2	B2/2500		
BH	(60°-80°)	1219.3	8.2	B3/2500		G3/2500
BVH	(80°-90°)	68.4	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
0°	2092.8	2092.8	2092.8	2092.8	2092.8	2092.8	2092.8	2092.8	2092.8	*2092.8*	2092.8
2.5°	2166.2	2163.3	2163.3	2139.8	2139.8	2133.9	2136.8	2119.2	2110.4	*2107.4*	2104.5
5°	2322.0	2322.0	2304.4	2289.7	2260.3	2233.8	2210.3	2175.0	2148.6	*2136.8*	2128.0
7.5°	2557.2	2539.5	2533.6	2489.6	2427.8	2374.9	2327.9	2251.5	2201.5	*2183.9*	2172.1
10°	2845.2	2821.7	2777.6	2727.6	2648.3	2568.9	2474.9	2372.0	2289.7	*2254.4*	2239.7
12.5°	3142.1	3109.7	3048.0	3001.0	2898.1	2777.6	2645.3	2504.2	2389.6	*2339.6*	2313.2
15°	3468.3	3450.7	3377.2	3283.1	3162.6	2992.2	2827.6	2654.1	2507.2	*2436.6*	2392.6
17.5°	3821.0	3794.6	3715.2	3600.6	3430.1	3227.3	3036.3	2812.9	2642.4	*2551.3*	2501.3
20°	4167.9	4162.0	4044.4	3935.7	3735.8	3483.0	3236.1	3001.0	2786.4	*2680.6*	2615.9
22.5°	4555.8	4517.6	4414.8	4261.9	4023.8	3791.6	3500.7	3195.0	2942.2	*2818.7*	2745.3
25°	4958.5	4955.6	4829.2	4641.1	4361.9	4067.9	3753.4	3415.4	3127.4	*2977.5*	2880.5
27.5°	5458.2	5420.0	5258.3	5043.8	4720.4	4382.4	4018.0	3644.7	3303.7	*3124.4*	3006.9
30°	5896.1	5884.4	5702.2	5461.1	5099.6	4696.9	4303.1	3903.3	3512.4	*3300.8*	3171.5
32.5°	6251.8	6237.1	6081.3	5840.3	5452.3	5034.9	4582.3	4147.3	3721.1	*3491.8*	3321.4
35°	6548.7	6525.1	6363.5	6122.5	5787.4	5364.1	4882.1	4403.0	3950.4	*3671.1*	3509.5
37.5°	6666.2	6645.7	6513.4	6313.5	6004.9	5616.9	5152.5	4685.2	4179.6	*3873.9*	3691.7
40°	6622.1	6610.4	6516.3	6378.2	6143.0	5819.7	5411.2	4979.1	4438.3	*4088.5*	3871.0
42.5°	6413.5	6413.5	6354.7	6284.1	6166.6	5934.4	5640.4	5261.3	4688.1	*4303.1*	4041.5
45°	6119.5	6107.8	6087.2	6060.7	6043.1	5954.9	5790.3	5505.2	4964.4	*4538.2*	4247.2
47.5°	5728.6	5737.4	5722.7	5734.5	5808.0	5863.8	5855.0	5731.6	5246.6	*4796.9*	4450.0
50°	5114.3	5155.5	5202.5	5340.6	5490.5	5646.3	5790.3	5893.2	5578.7	*5090.8*	4685.2
52.5°	4353.0	4370.7	4497.1	4823.3	5143.7	5349.4	5622.8	5966.7	5872.6	*5396.5*	4961.5
55°	3415.4	3447.7	3638.8	4100.3	4670.5	5064.3	5384.7	5934.4	6172.4	*5746.2*	5284.8
57.5°	2448.4	2469.0	2774.7	3250.8	3994.4	4655.8	5114.3	5805.0	6413.5	*6143.0*	5616.9
60°	1740.0	1778.3	1975.2	2439.6	3153.8	4091.4	4867.4	5616.9	6636.8	*6531.0*	6051.9
62.5°	1284.5	1305.0	1443.2	1781.2	2369.0	3321.4	4547.0	5478.8	6783.8	*6948.4*	6486.9
65°	967.0	975.8	1069.9	1302.1	1772.4	2448.4	4041.5	5452.3	6866.1	*7304.1*	6872.0
67.5°	*761.3*	*776.0*	*834.7*	*993.5*	*1319.7*	*1781.2*	*3292.0*	*5434.7*	*6836.7*	*7448.1*	*7074.8*
70°	640.8	643.7	687.8	776.0	987.6	1281.5	2460.2	5170.2	6672.1	*7195.3*	6886.7
72.5°	555.5	555.5	576.1	646.6	793.6	970.0	1675.4	4538.2	6254.7	*6428.2*	6234.2
75°	449.7	446.8	482.0	549.6	637.8	746.6	1125.7	3436.0	5378.8	*5290.7*	5131.9
77.5°	390.9	388.0	417.4	476.2	526.1	596.7	770.1	2230.9	4232.5	*3968.0*	3868.1
80°	335.1	326.3	349.8	405.6	432.1	464.4	532.0	1299.2	2765.8	*2601.2*	2480.7
82.5°	252.8	232.2	226.3	273.4	291.0	270.4	270.4	455.6	1005.2	*1014.0*	937.6
85°	20.6	23.5	29.4	35.3	50.0	55.8	58.8	97.0	149.9	*144.0*	147.0
87.5°	2.9	2.9	2.9	5.9	5.9	8.8	8.8	8.8	11.8	*11.8*	11.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0

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Scaled Data Report

REPORT NUMBER: P871039
CATALOG NUMBER: EMM2-HSN-SA3A-830-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2092.8	2092.8	2092.8	2092.8	2092.8	2092.8	2092.8	2092.8	2092.8	2092.8	2092.8
2.5°	2101.6	2095.7	2089.8	2089.8	2089.8	2083.9	2081.0	2081.0	2078.1	2069.2	2066.3
5°	2122.1	2113.3	2104.5	2104.5	2104.5	2101.6	2098.6	2101.6	2098.6	2089.8	2086.9
7.5°	2163.3	2151.5	2139.8	2139.8	2145.7	2142.7	2142.7	2145.7	2142.7	2133.9	2131.0
10°	2222.1	2204.4	2198.6	2198.6	2204.4	2201.5	2198.6	2198.6	2195.6	2180.9	2186.8
12.5°	2286.7	2269.1	2263.2	2266.2	2263.2	2257.3	2260.3	2251.5	2248.5	2225.0	2222.1
15°	2369.0	2348.5	2336.7	2339.6	2330.8	2319.1	2307.3	2301.4	2289.7	2269.1	2263.2
17.5°	2463.1	2430.8	2416.1	2416.1	2398.4	2374.9	2357.3	2339.6	2322.0	2298.5	2292.6
20°	2554.2	2524.8	2501.3	2495.4	2460.2	2421.9	2389.6	2360.2	2339.6	2313.2	2307.3
22.5°	2668.8	2627.7	2595.4	2568.9	2516.0	2454.3	2404.3	2363.2	2333.8	2304.4	2295.6
25°	2789.4	2730.6	2677.7	2627.7	2554.2	2466.0	2395.5	2336.7	2298.5	2266.2	2260.3
27.5°	2909.9	2833.4	2757.0	2677.7	2566.0	2451.3	2351.4	2280.9	2230.9	2189.7	2183.9
30°	3039.2	2945.1	2824.6	2710.0	2563.0	2413.1	2286.7	2186.8	2128.0	2081.0	2075.1
32.5°	3171.5	3053.9	2889.3	2733.5	2548.3	2357.3	2192.7	2086.9	2013.4	1960.5	1945.8
35°	3318.4	3174.4	2948.1	2742.3	2507.2	2275.0	2092.8	1960.5	1875.2	1822.3	1810.6
37.5°	3468.3	3286.1	2986.3	2736.4	2448.4	2178.0	1963.4	1828.2	1728.3	1654.8	1643.0
40°	3621.2	3389.0	3009.8	2707.1	2366.1	2057.5	1842.9	1678.3	1534.3	1466.7	1434.4
42.5°	3762.2	3483.0	3021.6	2665.9	2275.0	1931.1	1684.2	1469.6	1334.4	1260.9	1275.6
45°	3909.2	3571.2	3024.5	2615.9	2154.5	1769.4	1484.3	1284.5	1149.2	1093.4	1087.5
47.5°	4035.6	3644.7	3018.6	2545.4	2019.3	1584.3	1275.6	1084.6	984.7	931.7	925.9
50°	4203.1	3727.0	3009.8	2463.1	1842.9	1372.6	1081.6	925.9	834.7	793.6	790.7
52.5°	4370.7	3818.1	3003.9	2348.5	1657.7	1172.8	905.3	781.8	720.1	699.5	693.7
55°	4591.1	3929.8	3006.9	2216.2	1446.1	967.0	767.1	681.9	649.6	640.8	640.8
57.5°	4843.9	4073.8	3024.5	2069.2	1225.7	799.5	667.2	629.0	626.1	631.9	634.9
60°	5149.6	4264.9	3059.8	1916.4	1022.9	676.0	608.4	605.5	614.3	634.9	640.8
62.5°	5493.5	4473.5	3103.9	1716.5	828.9	593.7	576.1	587.9	599.6	623.1	626.1
65°	5796.2	4708.7	3130.3	1525.5	693.7	546.7	555.5	561.4	590.8	623.1	623.1
67.5°	*5978.4*	*4879.2*	*3030.4*	*1284.5*	*579.0*	*505.6*	*523.2*	*540.8*	*573.2*	*602.5*	*608.4*
70°	5916.7	4823.3	2689.4	996.4	490.9	467.3	487.9	514.4	546.7	582.0	599.6
72.5°	5487.6	4426.5	2183.9	726.0	426.2	432.1	458.5	493.8	523.2	561.4	584.9
75°	4588.2	3694.6	1575.4	523.2	373.3	396.8	437.9	467.3	487.9	496.7	499.7
77.5°	3483.0	2715.9	1072.8	390.9	323.3	355.7	399.7	432.1	437.9	443.8	449.7
80°	2275.0	1728.3	605.5	273.4	246.9	291.0	326.3	361.5	349.8	367.4	373.3
82.5°	961.1	755.4	276.3	135.2	114.6	123.4	132.3	117.6	108.8	108.8	94.1
85°	126.4	97.0	41.1	17.6	14.7	8.8	8.8	8.8	5.9	5.9	5.9
87.5°	11.8	11.8	8.8	8.8	5.9	5.9	2.9	5.9	2.9	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2407-157-7

Test Date: 09/05/2024

Luminaire Tested: MEM2-HTN-SA-40-830-U-5WQ

Data in this report applies to families of products including MEM2-HTN-SA-40-830-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

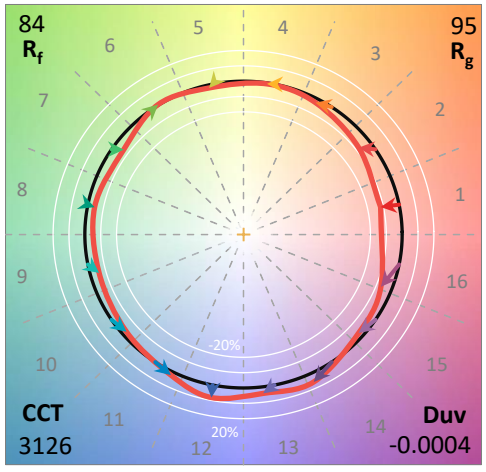
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-157-7
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	09/05/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**MEM2-HTN-SA-40-830-U-5WQ**
Description:	Epic Modern Light Square 40W 5WQ Optic

Spectral Parameters

CCT (K):	3126
CIE u':	0.2465
CIE v':	0.5182
Duv:	-0.0004
CIE x:	0.4277
CIE y:	0.3997
CIE z:	0.1727
Peak Wavelength (nm):	601
Dominant Wavelength (nm):	582
Purity:	48.31913
Rf:	84.4
Rg:	94.7

CRI (Ra):	82.6
R1:	81.4
R2:	92.2
R3:	94.9
R4:	80.1
R5:	81.8
R6:	90.5
R7:	81.8
R8:	58.0
R9:	5.1
R10:	82.2
R11:	79.8
R12:	70.4
R13:	84.2
R14:	97.9
R15:	73.6



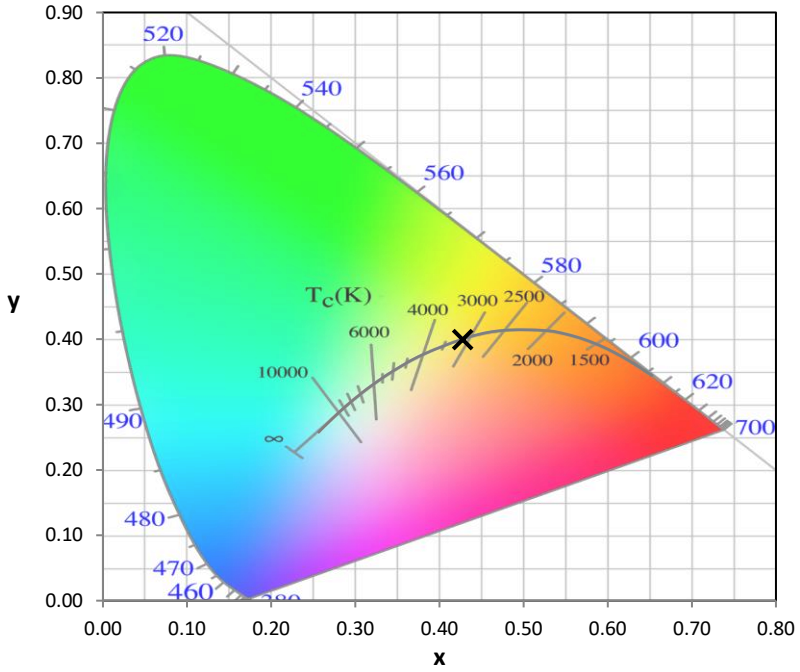
Test Conditions

Stabilization Time:	22M
Operation Time:	1H 22M
Sphere Temperature (°C):	24.3

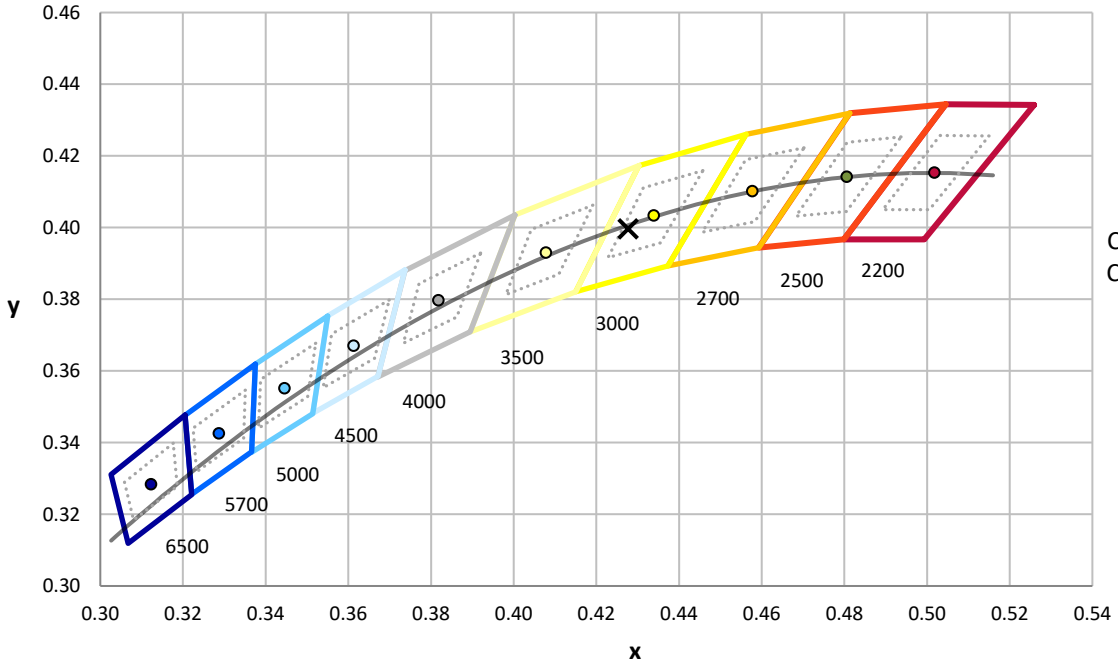
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2407-157-7

CIE 1931 Chromaticity Diagram



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

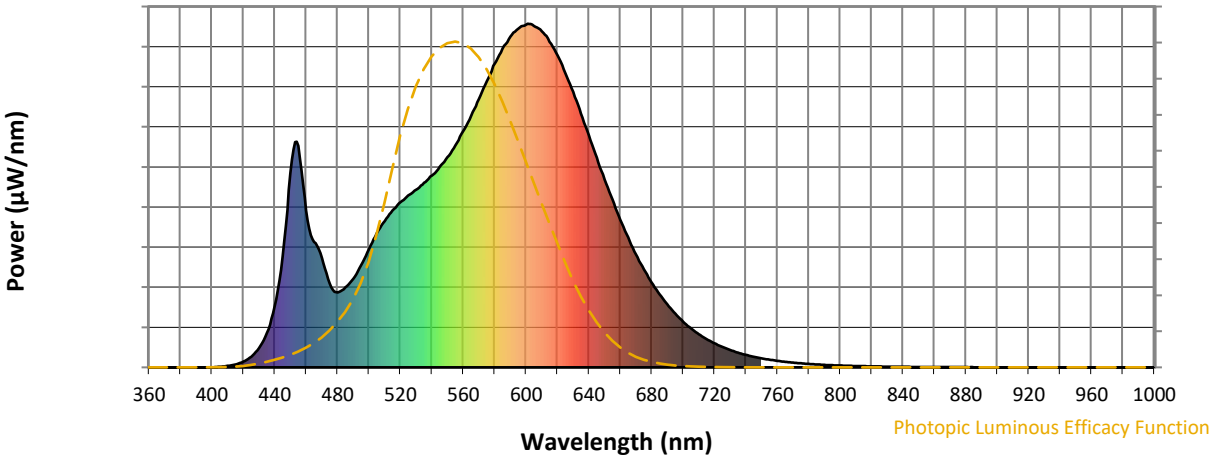


CCT = 3126K
CIE x = 0.4277
CIE y = 0.3997
Duv = -0.0004

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-157-7

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	258	NR	620	908	NR	750	26	NR	880	1	NR
365	0	NR	495	297	NR	625	857	NR	755	22	NR	885	0	NR
370	0	NR	500	345	NR	630	801	NR	760	19	NR	890	0	NR
375	0	NR	505	391	NR	635	738	NR	765	16	NR	895	0	NR
380	0	NR	510	426	NR	640	675	NR	770	14	NR	900	0	NR
385	0	NR	515	456	NR	645	610	NR	775	12	NR	905	0	NR
390	0	NR	520	480	NR	650	547	NR	780	10	NR	910	0	NR
395	0	NR	525	500	NR	655	488	NR	785	9	NR	915	0	NR
400	0	NR	530	517	NR	660	429	NR	790	7	NR	920	0	NR
405	2	NR	535	538	NR	665	378	NR	795	6	NR	925	0	NR
410	4	NR	540	558	NR	670	328	NR	800	5	NR	930	0	NR
415	9	NR	545	584	NR	675	285	NR	805	5	NR	935	0	NR
420	16	NR	550	611	NR	680	247	NR	810	4	NR	940	0	NR
425	31	NR	555	646	NR	685	212	NR	815	3	NR	945	0	NR
430	56	NR	560	687	NR	690	183	NR	820	3	NR	950	0	NR
435	101	NR	565	731	NR	695	156	NR	825	3	NR	955	0	NR
440	178	NR	570	780	NR	700	133	NR	830	2	NR	960	0	NR
445	323	NR	575	832	NR	705	114	NR	835	2	NR	965	0	NR
450	566	NR	580	883	NR	710	96	NR	840	2	NR	970	0	NR
455	645	NR	585	927	NR	715	82	NR	845	1	NR	975	0	NR
460	457	NR	590	963	NR	720	70	NR	850	1	NR	980	0	NR
465	365	NR	595	985	NR	725	59	NR	855	1	NR	985	0	NR
470	317	NR	600	998	NR	730	50	NR	860	1	NR	990	0	NR
475	244	NR	605	994	NR	735	43	NR	865	1	NR	995	0	NR
480	218	NR	610	978	NR	740	36	NR	870	1	NR	1000	0	NR
485	233	NR	615	947	NR	745	31	NR	875	1	NR			

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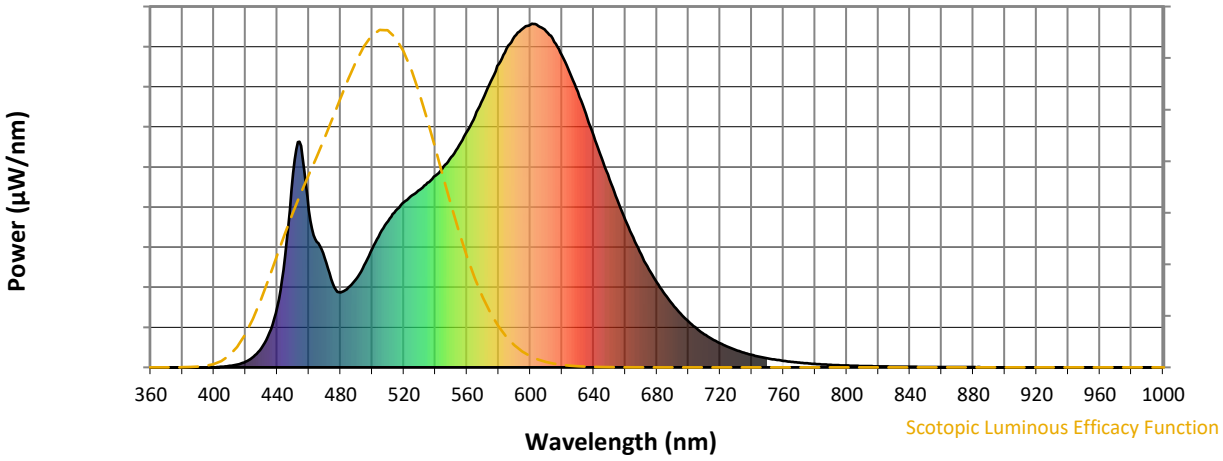
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.42**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	258	NR	620	908	NR	750	26	NR	880	1	NR
365	0	NR	495	297	NR	625	857	NR	755	22	NR	885	0	NR
370	0	NR	500	345	NR	630	801	NR	760	19	NR	890	0	NR
375	0	NR	505	391	NR	635	738	NR	765	16	NR	895	0	NR
380	0	NR	510	426	NR	640	675	NR	770	14	NR	900	0	NR
385	0	NR	515	456	NR	645	610	NR	775	12	NR	905	0	NR
390	0	NR	520	480	NR	650	547	NR	780	10	NR	910	0	NR
395	0	NR	525	500	NR	655	488	NR	785	9	NR	915	0	NR
400	0	NR	530	517	NR	660	429	NR	790	7	NR	920	0	NR
405	2	NR	535	538	NR	665	378	NR	795	6	NR	925	0	NR
410	4	NR	540	558	NR	670	328	NR	800	5	NR	930	0	NR
415	9	NR	545	584	NR	675	285	NR	805	5	NR	935	0	NR
420	16	NR	550	611	NR	680	247	NR	810	4	NR	940	0	NR
425	31	NR	555	646	NR	685	212	NR	815	3	NR	945	0	NR
430	56	NR	560	687	NR	690	183	NR	820	3	NR	950	0	NR
435	101	NR	565	731	NR	695	156	NR	825	3	NR	955	0	NR
440	178	NR	570	780	NR	700	133	NR	830	2	NR	960	0	NR
445	323	NR	575	832	NR	705	114	NR	835	2	NR	965	0	NR
450	566	NR	580	883	NR	710	96	NR	840	2	NR	970	0	NR
455	645	NR	585	927	NR	715	82	NR	845	1	NR	975	0	NR
460	457	NR	590	963	NR	720	70	NR	850	1	NR	980	0	NR
465	365	NR	595	985	NR	725	59	NR	855	1	NR	985	0	NR
470	317	NR	600	998	NR	730	50	NR	860	1	NR	990	0	NR
475	244	NR	605	994	NR	735	43	NR	865	1	NR	995	0	NR
480	218	NR	610	978	NR	740	36	NR	870	1	NR	1000	0	NR
485	233	NR	615	947	NR	745	31	NR	875	1	NR			

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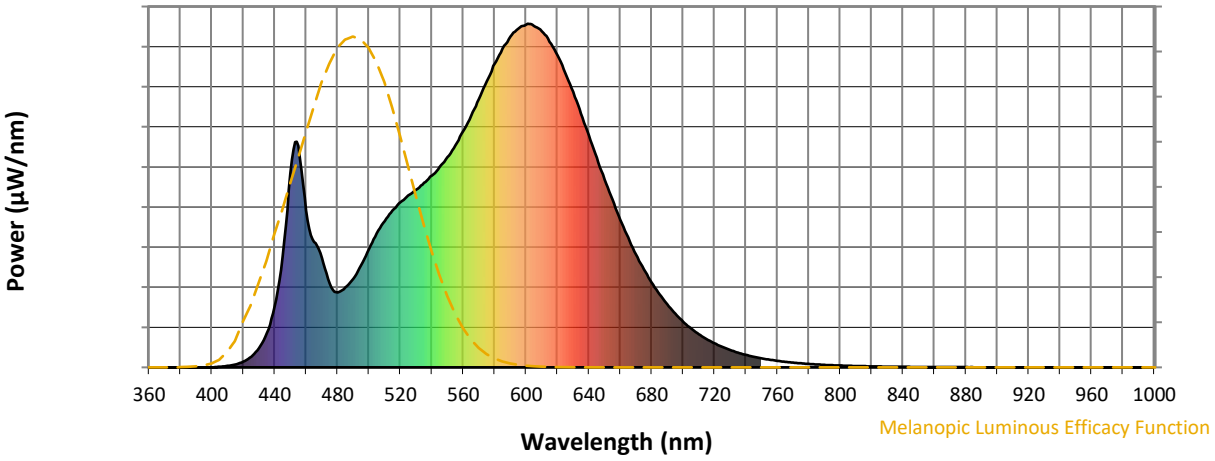
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.79**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	258	NR	620	908	NR	750	26	NR	880	1	NR
365	0	NR	495	297	NR	625	857	NR	755	22	NR	885	0	NR
370	0	NR	500	345	NR	630	801	NR	760	19	NR	890	0	NR
375	0	NR	505	391	NR	635	738	NR	765	16	NR	895	0	NR
380	0	NR	510	426	NR	640	675	NR	770	14	NR	900	0	NR
385	0	NR	515	456	NR	645	610	NR	775	12	NR	905	0	NR
390	0	NR	520	480	NR	650	547	NR	780	10	NR	910	0	NR
395	0	NR	525	500	NR	655	488	NR	785	9	NR	915	0	NR
400	0	NR	530	517	NR	660	429	NR	790	7	NR	920	0	NR
405	2	NR	535	538	NR	665	378	NR	795	6	NR	925	0	NR
410	4	NR	540	558	NR	670	328	NR	800	5	NR	930	0	NR
415	9	NR	545	584	NR	675	285	NR	805	5	NR	935	0	NR
420	16	NR	550	611	NR	680	247	NR	810	4	NR	940	0	NR
425	31	NR	555	646	NR	685	212	NR	815	3	NR	945	0	NR
430	56	NR	560	687	NR	690	183	NR	820	3	NR	950	0	NR
435	101	NR	565	731	NR	695	156	NR	825	3	NR	955	0	NR
440	178	NR	570	780	NR	700	133	NR	830	2	NR	960	0	NR
445	323	NR	575	832	NR	705	114	NR	835	2	NR	965	0	NR
450	566	NR	580	883	NR	710	96	NR	840	2	NR	970	0	NR
455	645	NR	585	927	NR	715	82	NR	845	1	NR	975	0	NR
460	457	NR	590	963	NR	720	70	NR	850	1	NR	980	0	NR
465	365	NR	595	985	NR	725	59	NR	855	1	NR	985	0	NR
470	317	NR	600	998	NR	730	50	NR	860	1	NR	990	0	NR
475	244	NR	605	994	NR	735	43	NR	865	1	NR	995	0	NR
480	218	NR	610	978	NR	740	36	NR	870	1	NR	1000	0	NR
485	233	NR	615	947	NR	745	31	NR	875	1	NR			

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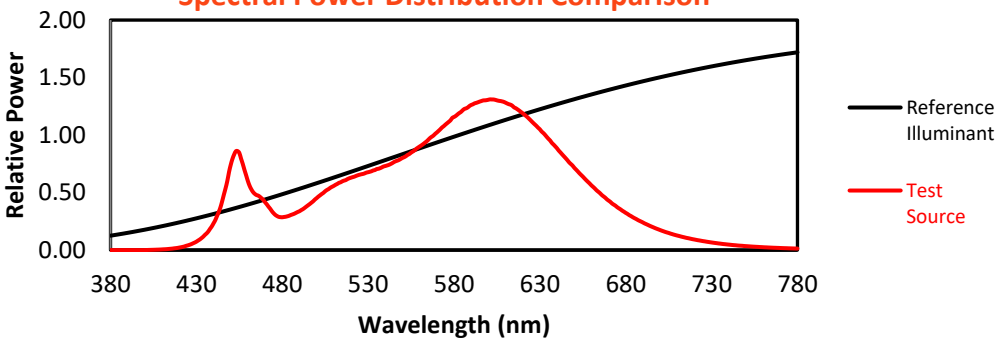
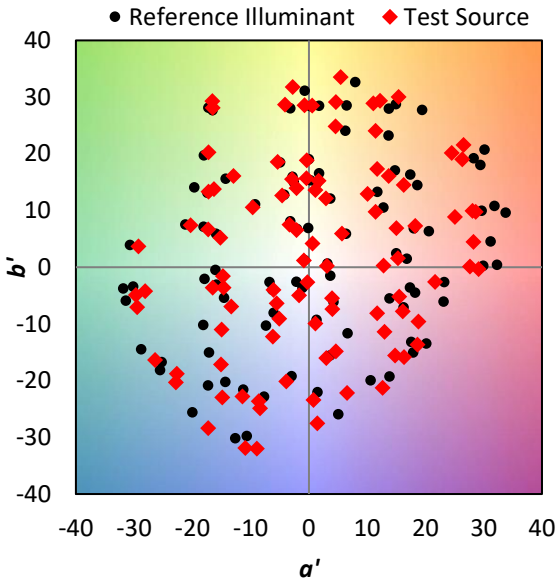
Summary

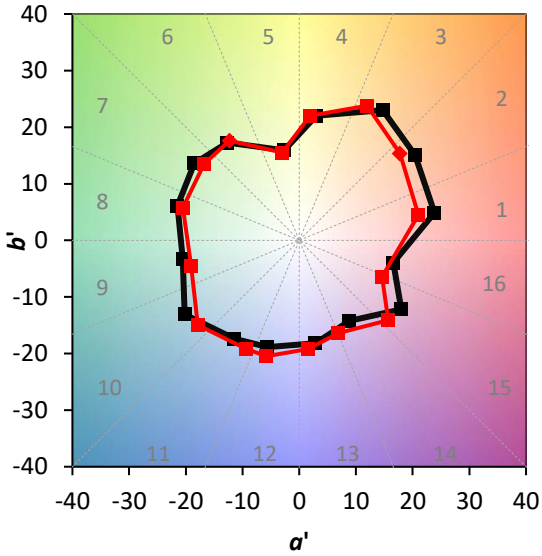
R_f = 84.4
R_g = 94.7
CIE R_a = 82.6
R_9 = 5.1

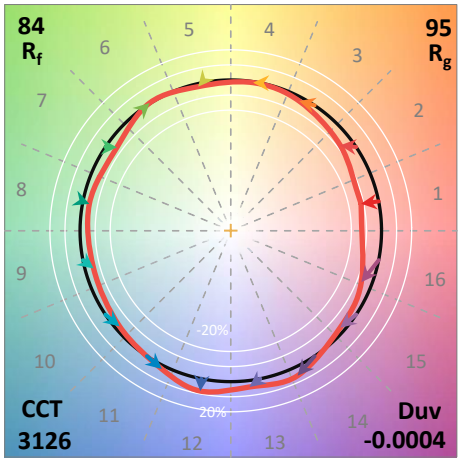
Spectral Power Distribution Comparison

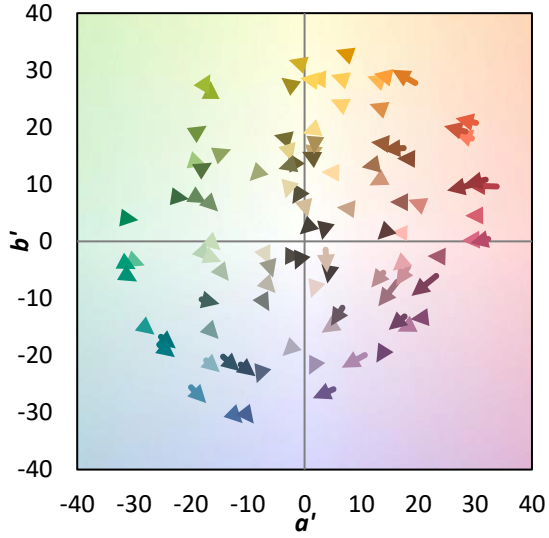


Color Vector Graphics









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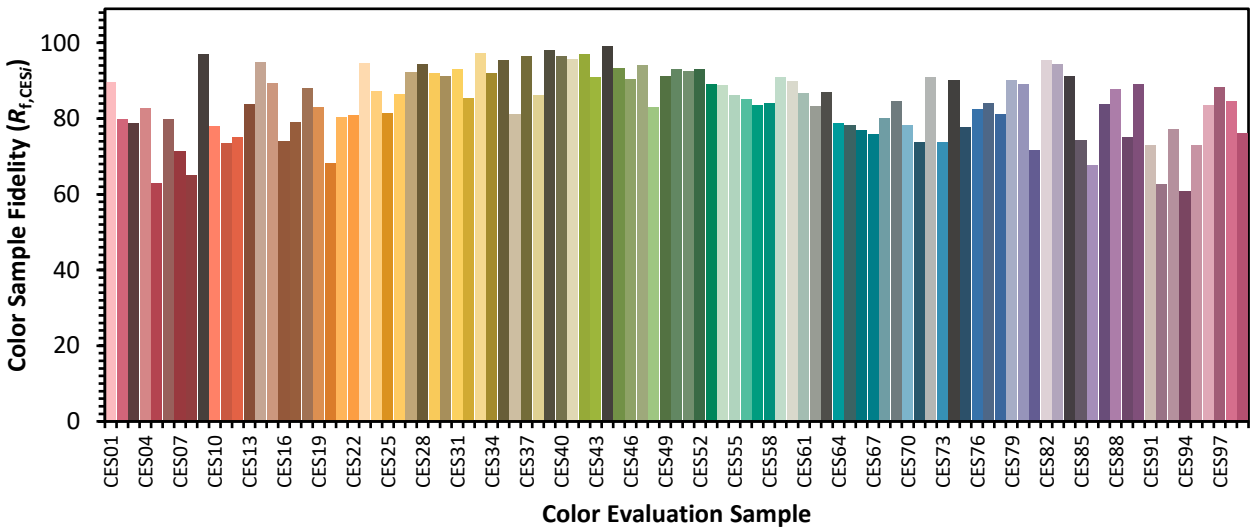
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 86	CES51 = 93	CES76 = 82
CES02 = 63	CES27 = 92	CES52 = 93	CES77 = 84
CES03 = 31	CES28 = 94	CES53 = 89	CES78 = 81
CES04 = 70	CES29 = 92	CES54 = 89	CES79 = 90
CES05 = 49	CES30 = 91	CES55 = 86	CES80 = 89
CES06 = 51	CES31 = 93	CES56 = 85	CES81 = 72
CES07 = 42	CES32 = 85	CES57 = 83	CES82 = 95
CES08 = 41	CES33 = 97	CES58 = 84	CES83 = 94
CES09 = 29	CES34 = 92	CES59 = 91	CES84 = 91
CES10 = 76	CES35 = 96	CES60 = 90	CES85 = 74
CES11 = 59	CES36 = 81	CES61 = 87	CES86 = 68
CES12 = 65	CES37 = 96	CES62 = 83	CES87 = 84
CES13 = 43	CES38 = 86	CES63 = 87	CES88 = 88
CES14 = 74	CES39 = 98	CES64 = 79	CES89 = 75
CES15 = 71	CES40 = 96	CES65 = 78	CES90 = 89
CES16 = 47	CES41 = 96	CES66 = 77	CES91 = 73
CES17 = 50	CES42 = 97	CES67 = 76	CES92 = 63
CES18 = 56	CES43 = 91	CES68 = 80	CES93 = 77
CES19 = 72	CES44 = 99	CES69 = 85	CES94 = 61
CES20 = 66	CES45 = 93	CES70 = 78	CES95 = 73
CES21 = 87	CES46 = 90	CES71 = 74	CES96 = 84
CES22 = 79	CES47 = 94	CES72 = 91	CES97 = 88
CES23 = 92	CES48 = 83	CES73 = 74	CES98 = 85
CES24 = 91	CES49 = 91	CES74 = 90	CES99 = 76
CES25 = 72	CES50 = 93	CES75 = 78	



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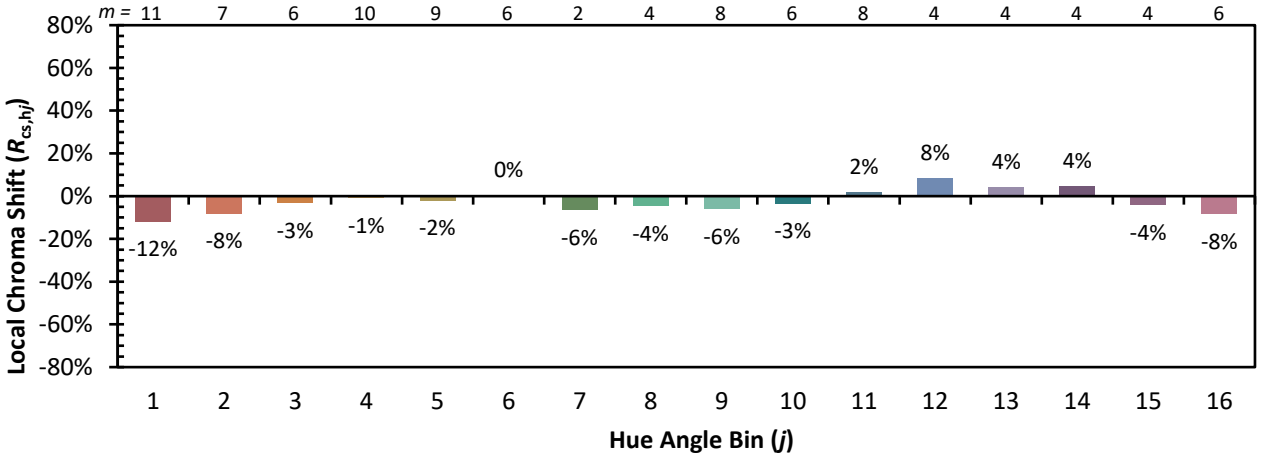
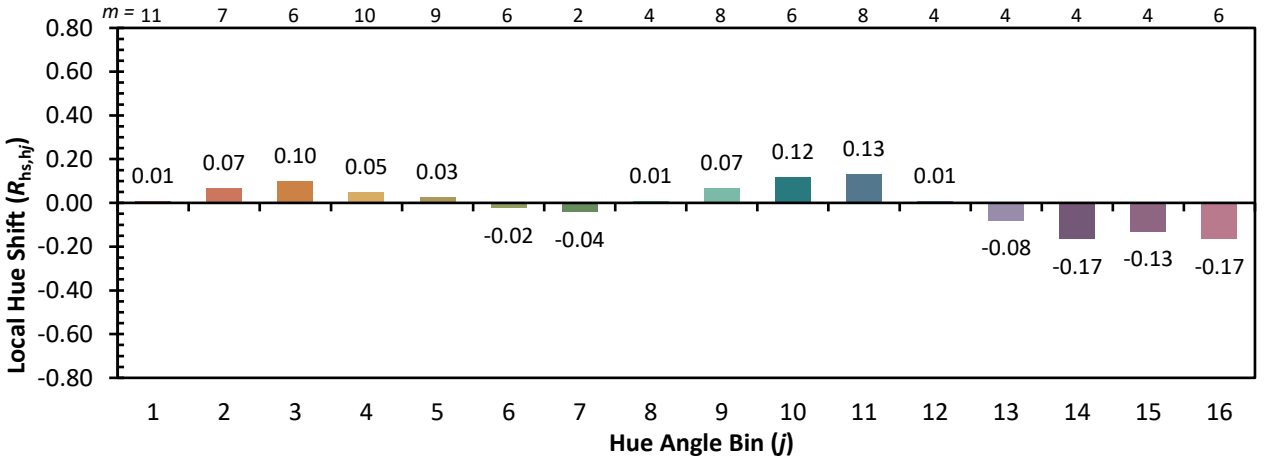
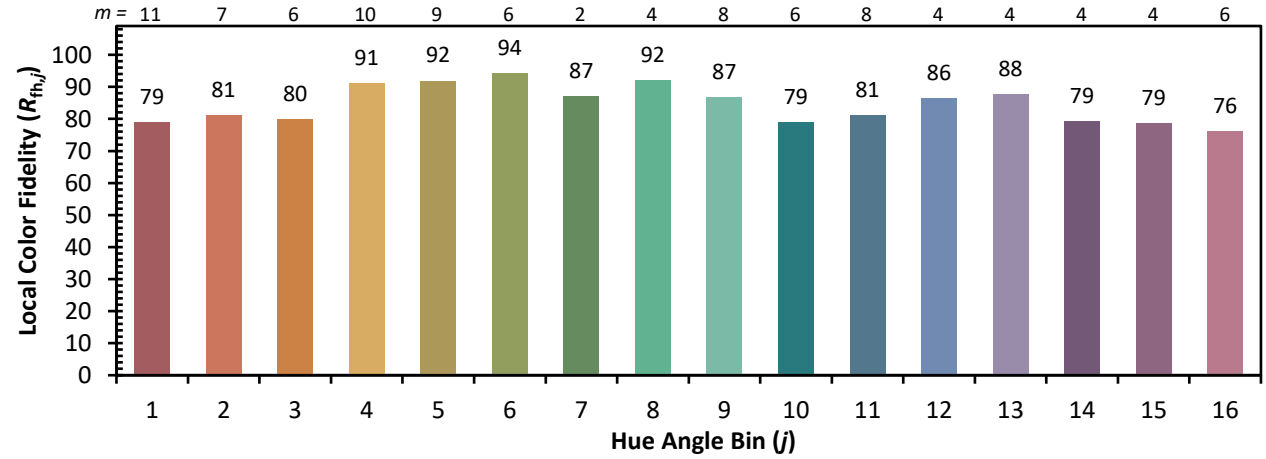
Color Rendition by Hue-Angle Bin







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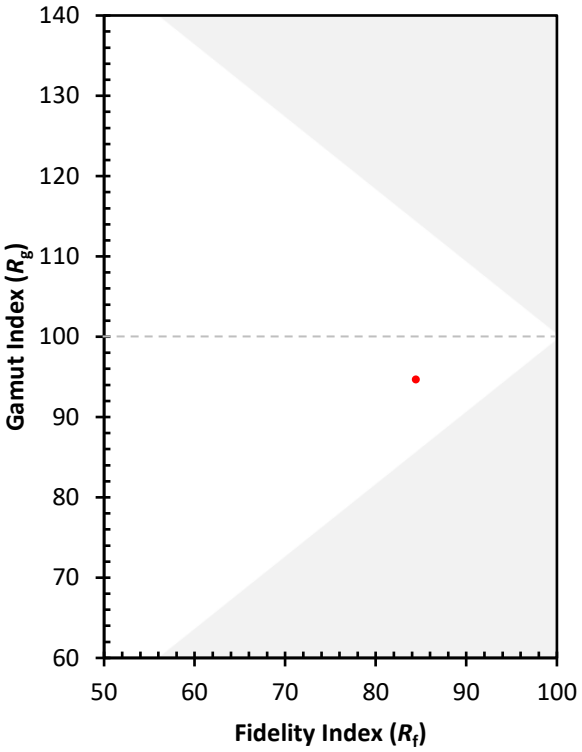
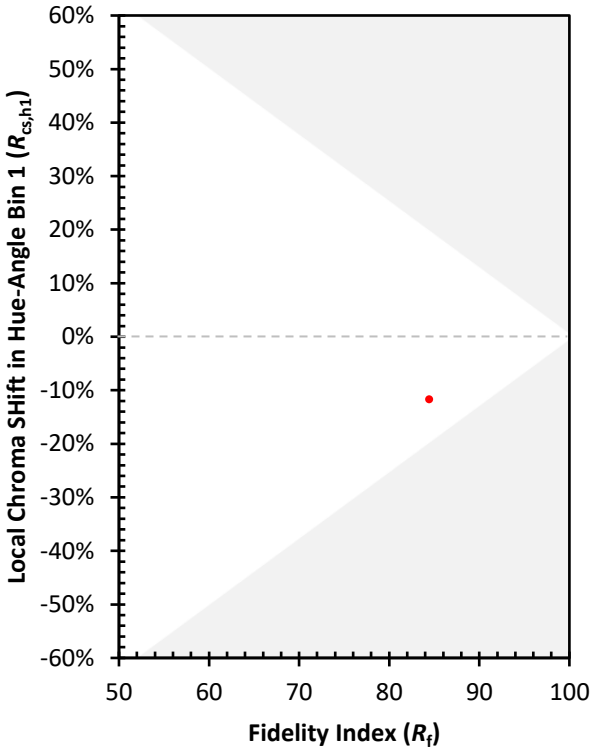
Measure Comparisons





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