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: P870606

Luminaire Tested: **EMM2-HTN-SA3B-830-U-T1**

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:	P870606
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	09/05/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	INVUE
Catalog Number:	EMM2-HTN-SA3B-830-U-T1
Description:	EPIC MODERN TALL HOUSING DISCRETE LED ARRAYS 150W 80CRI 3000K FIXTURE w/ TYPE 1 DISTRIBUTION OPTIC
Light Source:	(30) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	17299.2 lumens
Efficiency:	N/A
Efficacy:	129.1 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.33' x H: 0')
IES Classification:	Type I - Short
BUG Rating:	B3 - U0 - G3

Input Watts (W):	134
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.70%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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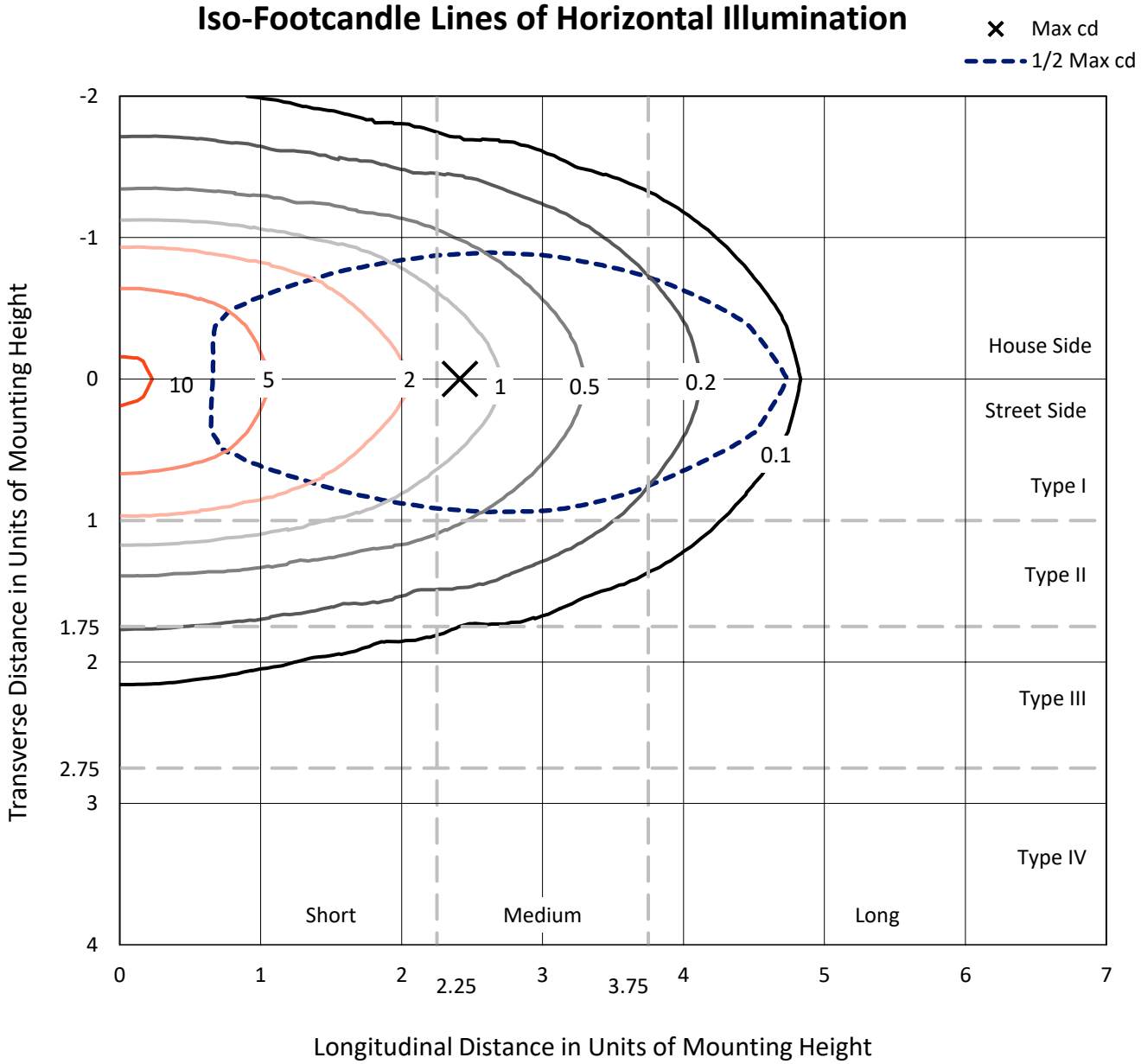
REPORT NUMBER: P870606
CATALOG NUMBER: EMM2-HTN-SA3B-830-U-T1

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 10.5 fc
Type I - Short - N/A

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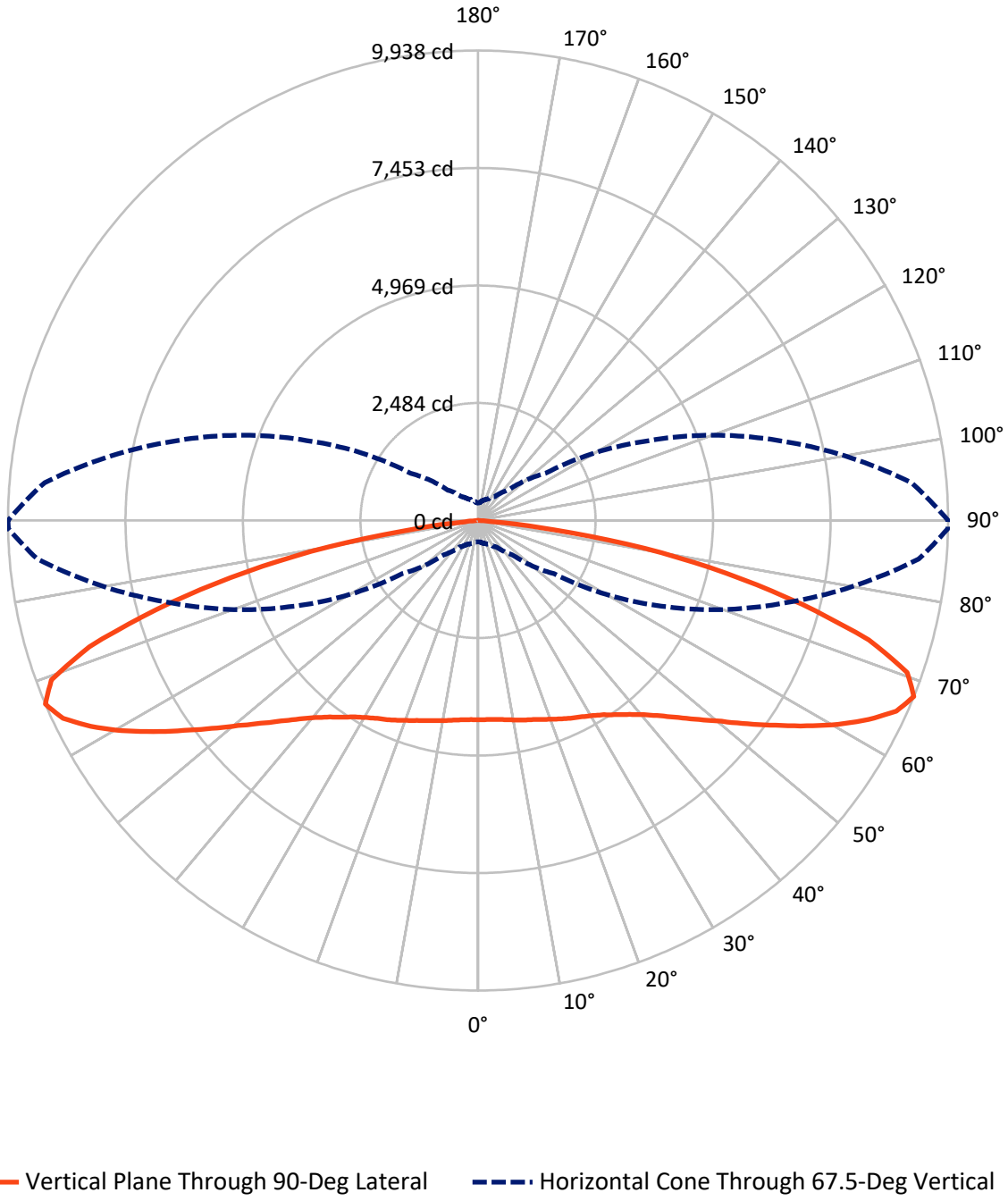
Luminous Intensity Polar Plot



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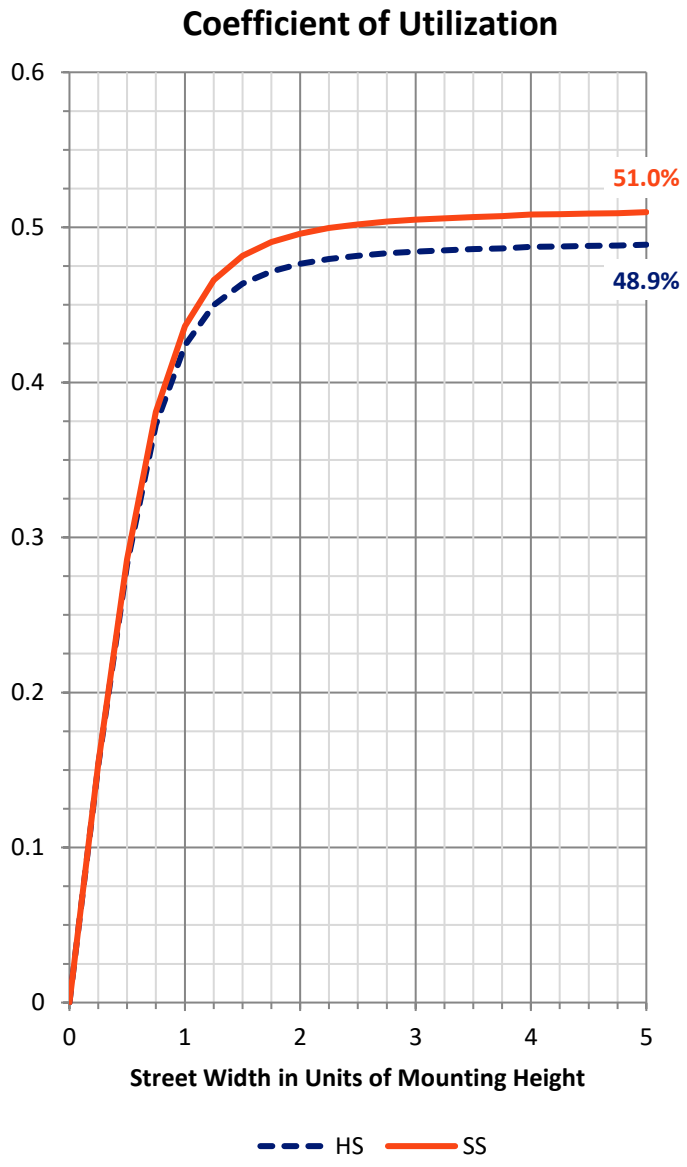
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8496.0	0.0	8496.0
	% Fixture	49.1	0.0	49.1
Street Side	Lumens	8803.2	0.0	8803.2
	% Fixture	50.9	0.0	50.9
Total	Lumens	17299.2	0.0	17299.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.0	2.3
10°-20°	1213.9	7.0
20°-30°	2009.0	11.6
30°-40°	2663.9	15.4
40°-50°	3003.5	17.4
50°-60°	3079.0	17.8
60°-70°	2908.1	16.8
70°-80°	1784.4	10.3
80°-90°	233.5	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°	17299.2	100.0
0°-180°	17299.2	100.0



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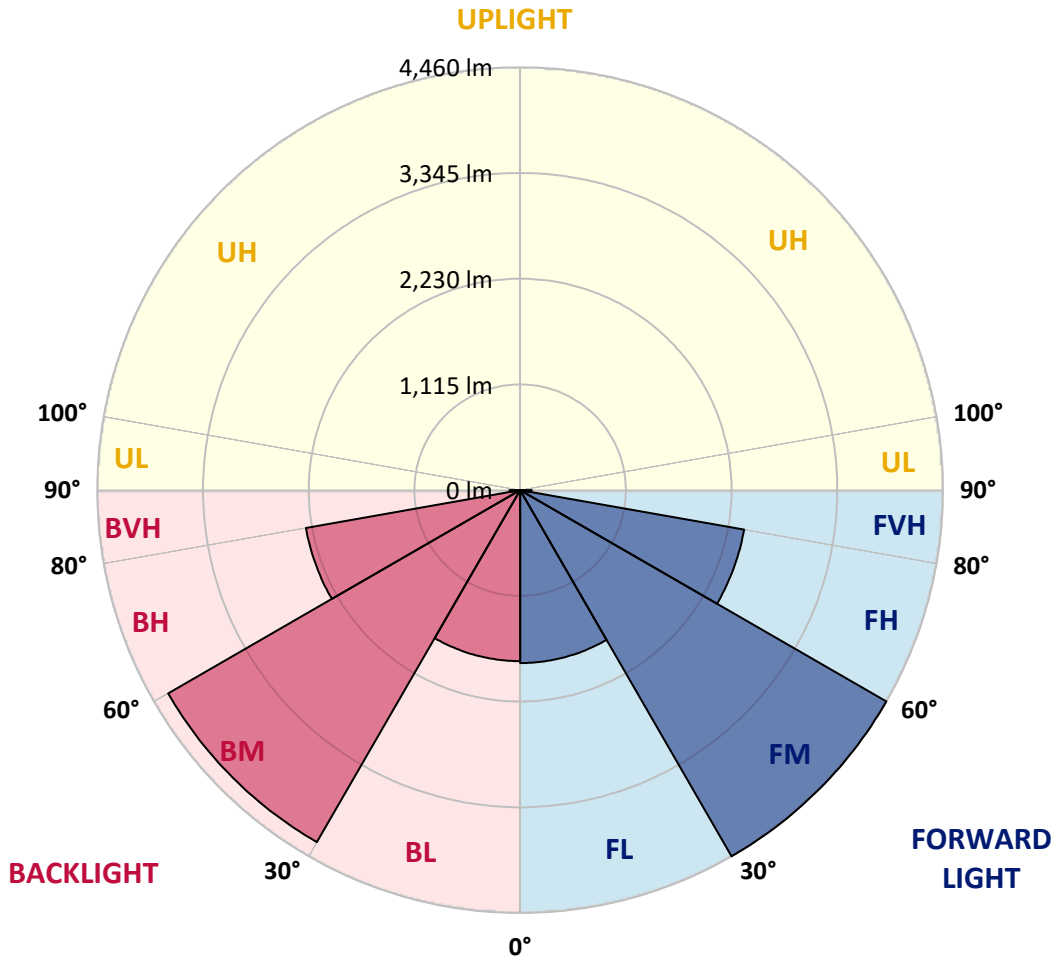
CATALOG NUMBER: EMM2-HTN-SA3B-830-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1823.8	10.5			
FM	(30°-60°)	4459.5	25.8			
FH	(60°-80°)	2398.3	13.9			G2/5000
FVH	(80°-90°)	121.6	0.7			G2/225
BL	(0°-30°)	1803.0	10.4	B3/2500		
BM	(30°-60°)	4286.9	24.8	B3/5000		
BH	(60°-80°)	2294.3	13.3	B3/2500		G3/2500
BVH	(80°-90°)	111.8	0.6			G2/225
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9
2.5°	4231.5	4231.5	4221.6	4204.9	4201.6	4204.9	4224.9	4214.9	4214.9	4218.2	4214.9
5°	4231.5	4231.5	4224.9	4208.3	4208.3	4208.3	4231.5	4221.6	4224.9	4228.2	4228.2
7.5°	4238.2	4238.2	4231.5	4218.2	4218.2	4218.2	4251.4	4244.8	4244.8	4254.8	4248.1
10°	4254.8	4248.1	4241.5	4244.8	4234.8	4251.4	4268.1	4271.4	4284.7	4291.3	4288.0
12.5°	4254.8	4248.1	4231.5	4251.4	4251.4	4274.7	4297.9	4311.2	4327.8	4327.8	4327.8
15°	4234.8	4228.2	4214.9	4248.1	4261.4	4291.3	4324.5	4344.4	4374.3	4374.3	4371.0
17.5°	4211.6	4201.6	4195.0	4244.8	4274.7	4314.6	4364.4	4391.0	4424.2	4427.5	4420.8
20°	4168.4	4165.1	4168.4	4234.8	4288.0	4344.4	4404.2	4440.8	4484.0	4497.2	4487.3
22.5°	4121.9	4121.9	4135.2	4224.9	4307.9	4384.3	4464.0	4510.5	4553.7	4567.0	4553.7
25°	4058.8	4058.8	4085.4	4191.7	4314.6	4427.5	4520.5	4583.6	4623.5	4636.7	4630.1
27.5°	3962.5	3962.5	3992.4	4125.2	4294.6	4460.7	4580.3	4653.3	4696.5	4709.8	4703.2
30°	3826.3	3819.7	3859.5	4025.6	4258.1	4497.2	4650.0	4726.4	4782.9	4792.8	4782.9
32.5°	3610.4	3620.4	3680.2	3889.4	4198.3	4520.5	4733.1	4822.7	4885.8	4905.8	4899.1
35°	3348.0	3364.6	3447.7	3716.7	4085.4	4517.2	4819.4	4929.0	5012.1	5038.6	5035.3
37.5°	3035.8	3059.1	3162.0	3477.6	3916.0	4467.3	4899.1	5048.6	5158.2	5191.4	5198.1
40°	2693.7	2716.9	2849.8	3198.6	3686.8	4351.1	4945.6	5184.8	5330.9	5397.3	5407.3
42.5°	2331.7	2371.5	2530.9	2869.7	3411.1	4165.1	4945.6	5317.6	5497.0	5619.9	5629.8
45°	1982.9	2016.1	2208.8	2540.9	3115.5	3925.9	4889.2	5450.5	5722.8	5935.4	5928.8
47.5°	1680.7	1690.6	1866.7	2202.1	2786.7	3653.6	4772.9	5570.1	5962.0	6244.3	6304.1
50°	1368.4	1391.7	1541.2	1873.3	2451.2	3354.7	4577.0	5646.5	6207.8	6636.2	6712.6
52.5°	1149.2	1152.5	1265.5	1571.0	2102.5	2992.6	4341.1	5666.4	6443.6	7061.4	7154.4
55°	936.6	953.3	1049.6	1278.8	1767.0	2637.2	4035.6	5636.5	6659.5	7473.3	7646.0
57.5°	803.8	807.1	876.9	1059.5	1491.3	2258.6	3696.8	5536.8	6838.9	7928.3	8147.5
60°	690.9	690.9	744.0	883.5	1205.7	1889.9	3298.2	5360.8	6938.5	8416.5	8735.4
62.5°	601.2	604.5	651.0	754.0	1003.1	1561.1	2859.8	5085.1	6975.0	8888.2	9253.5
65°	544.7	548.0	574.6	644.4	827.0	1268.8	2411.4	4749.7	6925.2	9240.3	9715.2
67.5°	*451.7*	*455.0*	*501.5*	*554.7*	*687.5*	*1019.7*	*1959.7*	*4284.7*	*6722.6*	*9349.9*	*9931.1*
70°	345.4	355.4	418.5	475.0	571.3	813.8	1504.6	3670.2	6237.7	8977.9	9575.7
72.5°	289.0	292.3	338.8	401.9	478.3	637.7	1142.6	2889.7	5500.3	8018.0	8682.3
75°	252.4	255.8	282.3	338.8	398.6	511.5	793.8	1996.2	4387.6	6483.5	7091.3
77.5°	229.2	232.5	239.1	285.6	335.5	395.3	561.3	1185.8	3095.6	4955.6	5274.5
80°	219.2	219.2	202.6	235.8	275.7	308.9	375.3	680.9	1986.2	3341.4	3597.1
82.5°	156.1	152.8	139.5	146.1	169.4	169.4	192.6	282.3	760.6	1411.6	1531.2
85°	10.0	10.0	16.6	19.9	29.9	39.9	49.8	66.4	192.6	262.4	272.4
87.5°	3.3	3.3	3.3	3.3	3.3	6.6	6.6	6.6	10.0	13.3	13.3
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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REPORT NUMBER: P870606
CATALOG NUMBER: EMM2-HTN-SA3B-830-U-T1

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9
2.5°	4211.6	4214.9	4214.9	4221.6	4228.2	4224.9	4221.6	4228.2	4218.2	4198.3	4195.0
5°	4224.9	4224.9	4221.6	4228.2	4234.8	4228.2	4221.6	4221.6	4214.9	4195.0	4191.7
7.5°	4251.4	4248.1	4248.1	4248.1	4248.1	4238.2	4228.2	4221.6	4211.6	4191.7	4181.7
10°	4288.0	4284.7	4281.3	4278.0	4261.4	4251.4	4234.8	4224.9	4211.6	4188.3	4181.7
12.5°	4327.8	4321.2	4314.6	4317.9	4284.7	4254.8	4238.2	4214.9	4204.9	4151.8	4141.8
15°	4367.7	4357.7	4354.4	4341.1	4307.9	4264.7	4231.5	4198.3	4165.1	4115.3	4098.7
17.5°	4420.8	4414.2	4394.3	4381.0	4334.5	4274.7	4224.9	4178.4	4135.2	4075.4	4065.4
20°	4484.0	4477.3	4457.4	4430.8	4371.0	4297.9	4228.2	4155.1	4102.0	4032.2	4015.6
22.5°	4553.7	4543.7	4527.1	4497.2	4420.8	4334.5	4238.2	4141.8	4062.1	3982.4	3972.4
25°	4626.8	4620.1	4603.5	4560.3	4477.3	4371.0	4238.2	4095.3	3995.7	3925.9	3896.1
27.5°	4696.5	4693.2	4673.3	4623.5	4537.1	4397.6	4208.3	4018.9	3886.1	3793.1	3773.2
30°	4786.2	4779.6	4756.3	4699.8	4603.5	4414.2	4148.5	3889.4	3723.3	3620.4	3590.5
32.5°	4895.8	4889.2	4856.0	4786.2	4683.2	4417.5	4062.1	3723.3	3504.1	3394.5	3358.0
35°	5042.0	5028.7	4985.5	4902.5	4759.6	4384.3	3909.3	3510.8	3241.7	3098.9	3049.1
37.5°	5201.4	5184.8	5128.3	5025.3	4812.8	4294.6	3693.4	3225.1	2919.6	2750.2	2713.6
40°	5397.3	5374.1	5287.7	5144.9	4832.7	4138.5	3451.0	2932.8	2607.3	2421.3	2378.2
42.5°	5643.1	5603.3	5463.8	5277.8	4792.8	3925.9	3162.0	2630.6	2258.6	2085.9	2075.9
45°	5938.7	5875.6	5666.4	5407.3	4706.5	3660.2	2856.4	2291.8	1936.4	1767.0	1723.8
47.5°	6287.5	6211.1	5902.2	5507.0	4537.1	3387.9	2527.6	1963.0	1637.5	1464.8	1431.5
50°	6672.8	6599.7	6151.3	5563.4	4354.4	3069.0	2205.4	1670.7	1345.2	1202.4	1202.4
52.5°	7141.1	6975.0	6390.5	5570.1	4075.4	2716.9	1896.5	1385.0	1129.3	1003.1	976.5
55°	7639.3	7443.4	6606.4	5510.3	3786.4	2394.8	1564.4	1152.5	926.7	837.0	813.8
57.5°	8194.0	7895.1	6762.5	5390.7	3421.1	2042.7	1305.3	949.9	780.5	707.5	697.5
60°	8752.0	8366.7	6855.5	5188.1	3032.5	1717.2	1086.1	793.8	670.9	617.8	607.8
62.5°	9270.2	8752.0	6862.1	4892.5	2653.8	1431.5	890.1	684.2	594.5	554.7	554.7
65°	9718.5	9074.2	6749.2	4513.8	2172.2	1149.2	734.0	577.9	518.1	475.0	465.0
67.5°	9937.8	9197.1	6549.9	3995.7	1740.4	910.1	617.8	501.5	445.1	378.6	372.0
70°	9628.9	8841.7	6038.4	3331.4	1345.2	724.1	514.8	428.5	372.0	315.5	308.9
72.5°	8642.4	7895.1	5211.3	2580.8	1013.0	584.6	428.5	365.4	305.6	275.7	269.0
75°	7071.4	6566.5	4118.6	1777.0	707.5	458.4	358.7	308.9	259.1	245.8	242.5
77.5°	5367.5	4882.5	3009.2	1112.7	484.9	358.7	305.6	262.4	225.9	235.8	229.2
80°	3583.8	3361.3	1999.5	631.1	325.5	262.4	232.5	192.6	172.7	199.3	192.6
82.5°	1627.5	1541.2	940.0	275.7	146.1	112.9	79.7	59.8	46.5	43.2	49.8
85°	272.4	239.1	66.4	29.9	16.6	10.0	6.6	6.6	3.3	3.3	3.3
87.5°	13.3	10.0	10.0	6.6	3.3	3.3	3.3	3.3	3.3	0.0	0.0
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

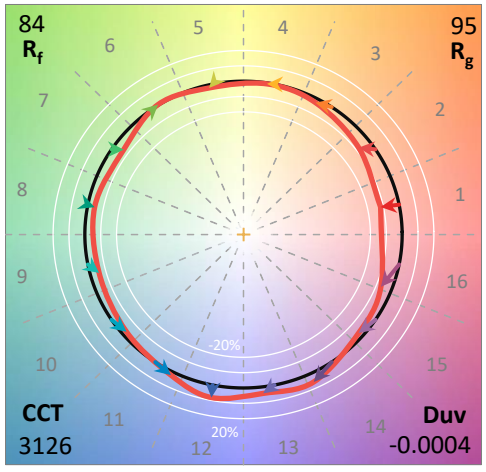
Test Information

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



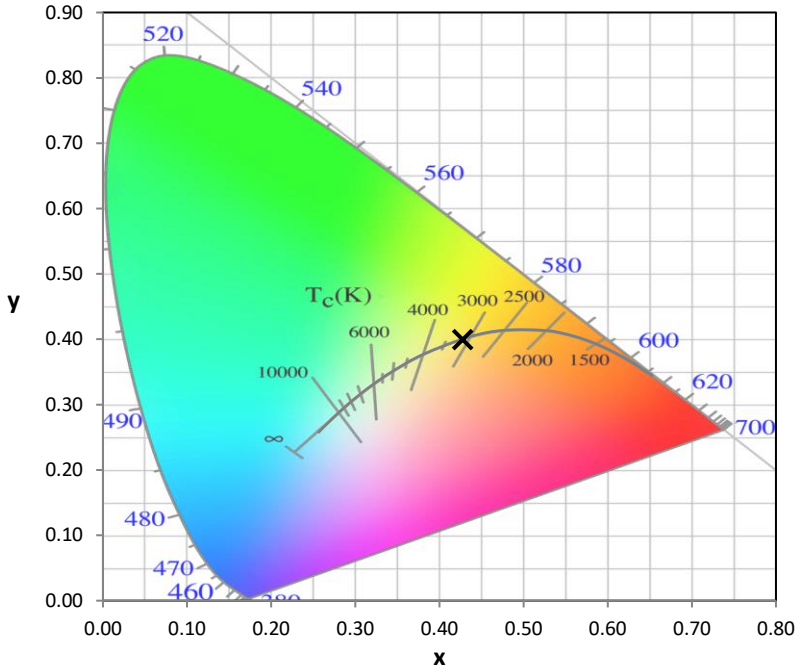
Test Conditions

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

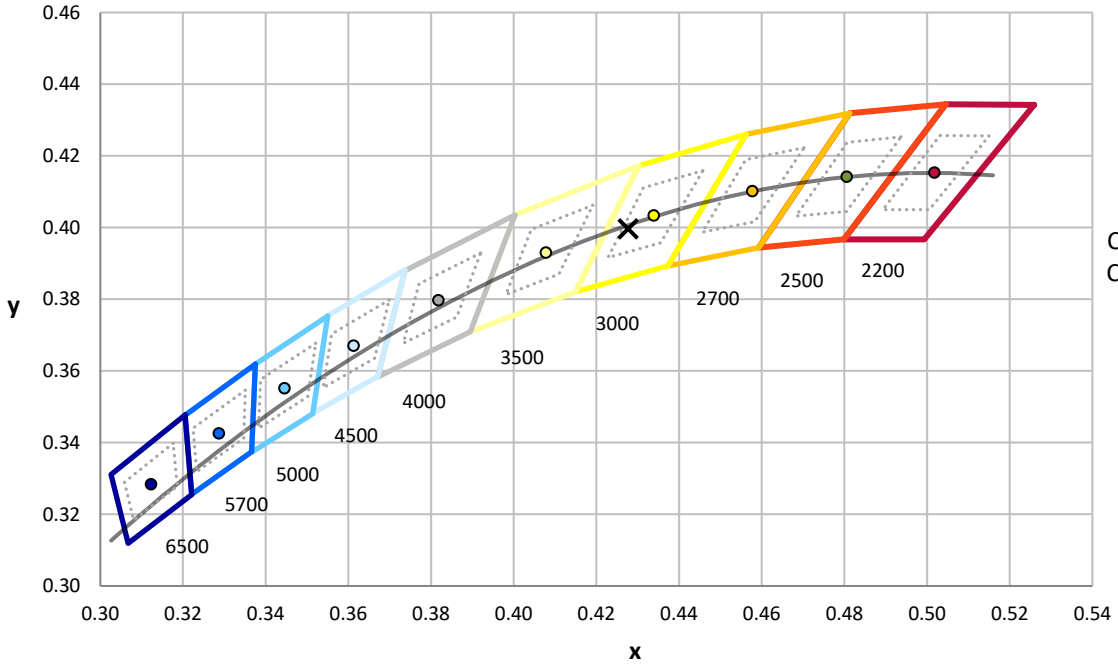
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

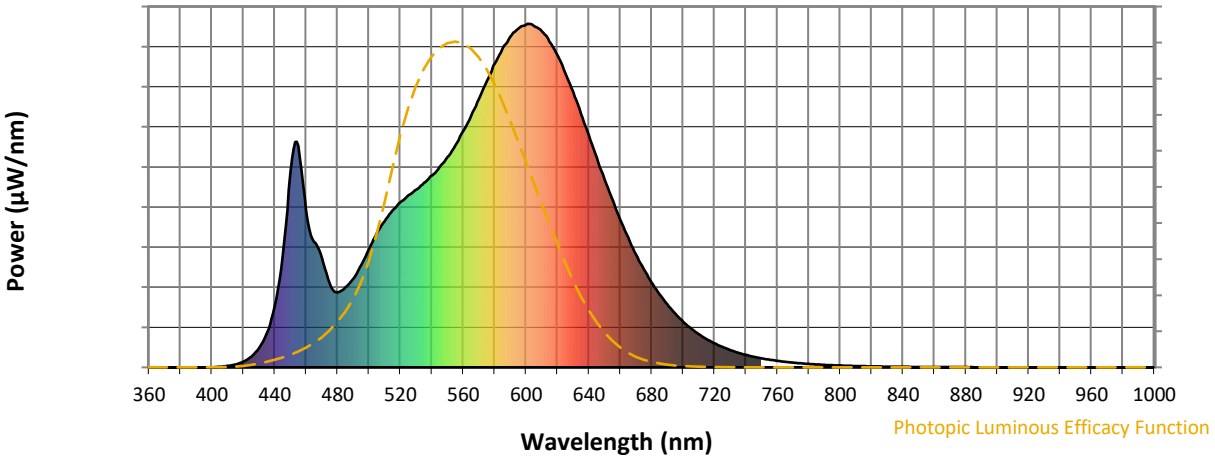


CCT = 3126K
CIE x = 0.4277
CIE y = 0.3997
Duv = -0.0004

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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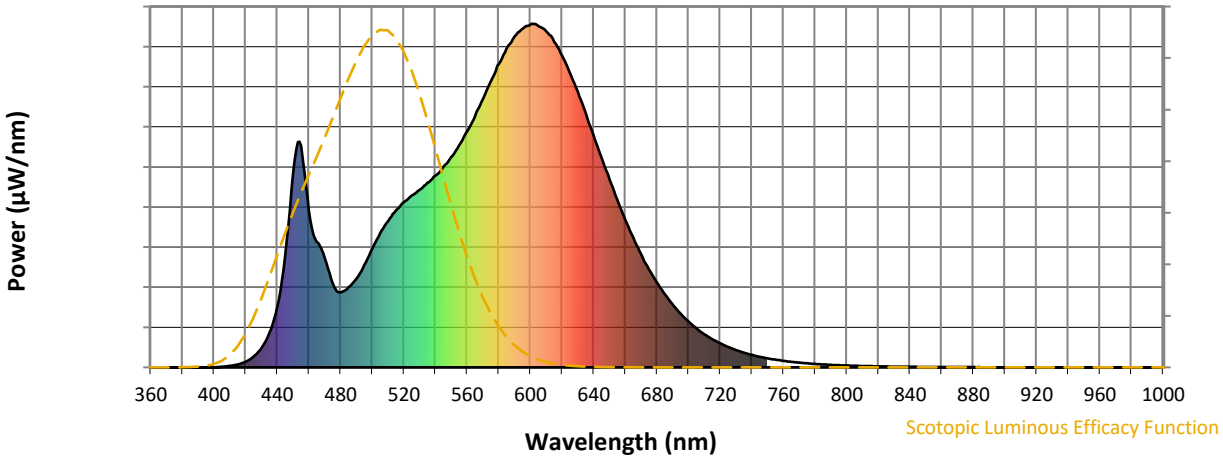
Scotopic Flux vs. Wavelength



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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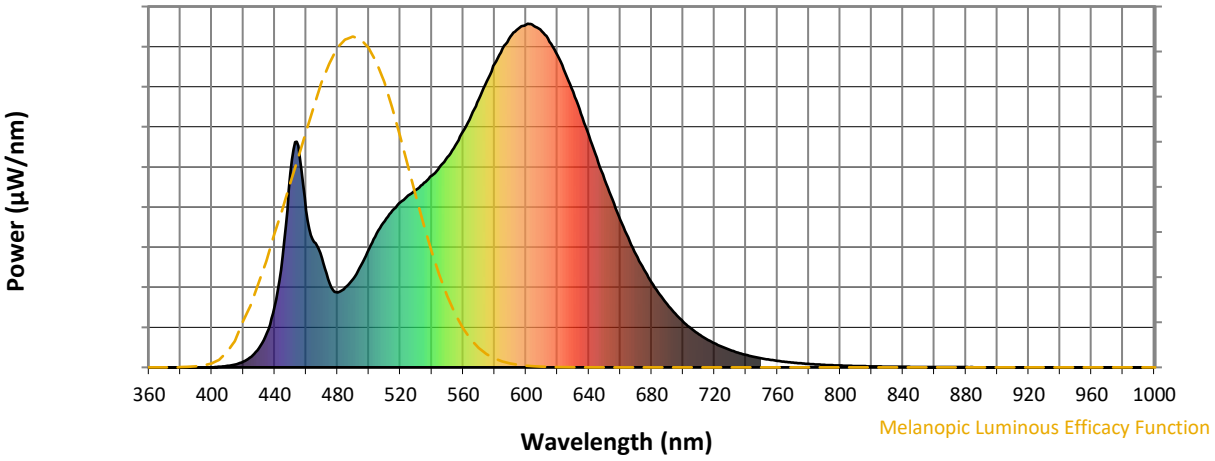
Melanopic Flux vs. Wavelength



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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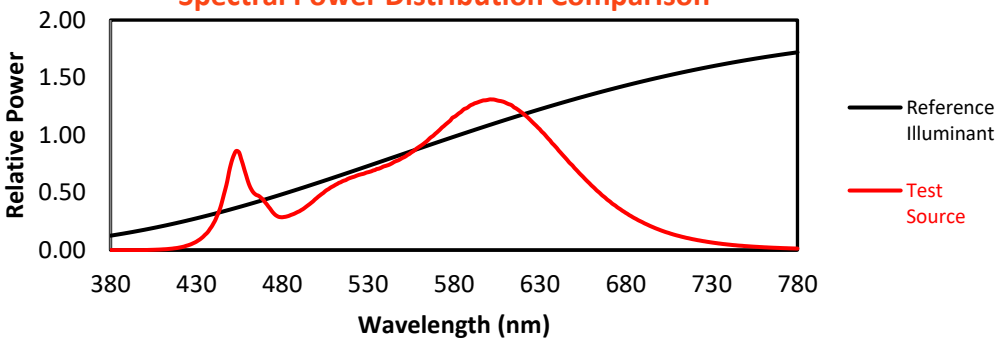
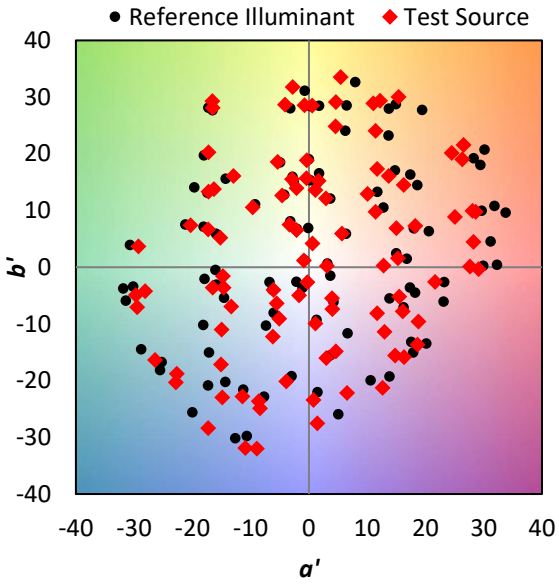
Summary

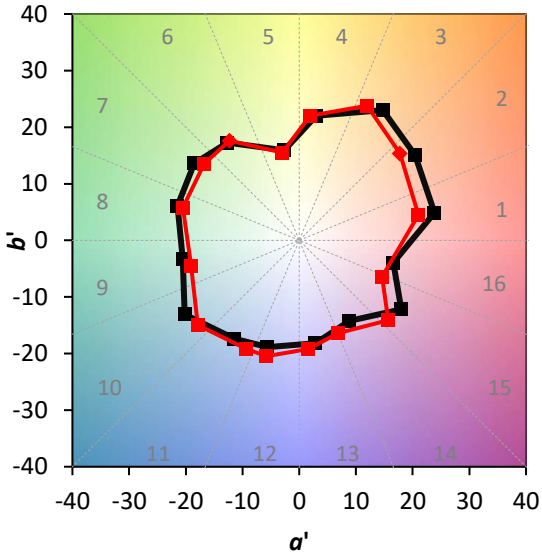
R_f = 84.4
R_g = 94.7
CIE R_a = 82.6
R_9 = 5.1

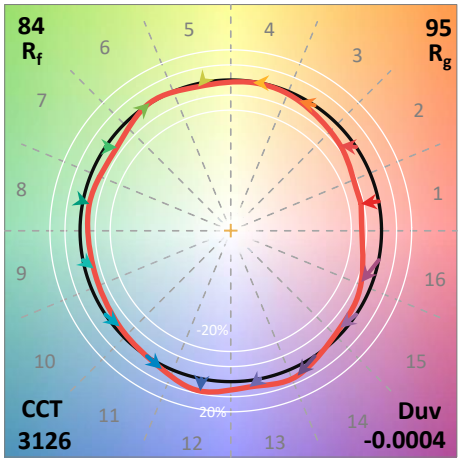
Spectral Power Distribution Comparison

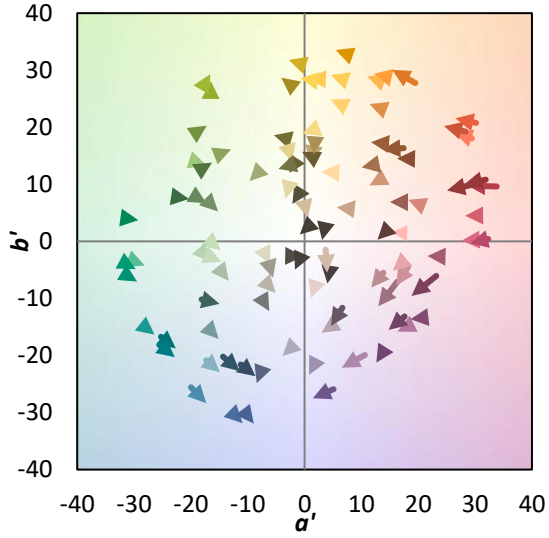


Color Vector Graphics









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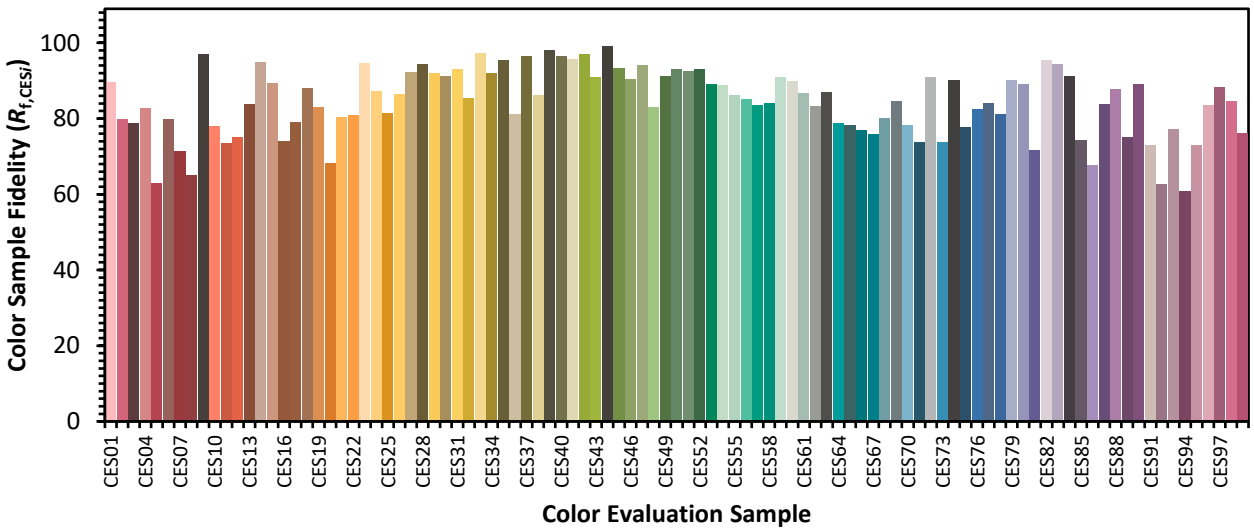
Individual Sample Fidelity Index ($R_{f,i}$)

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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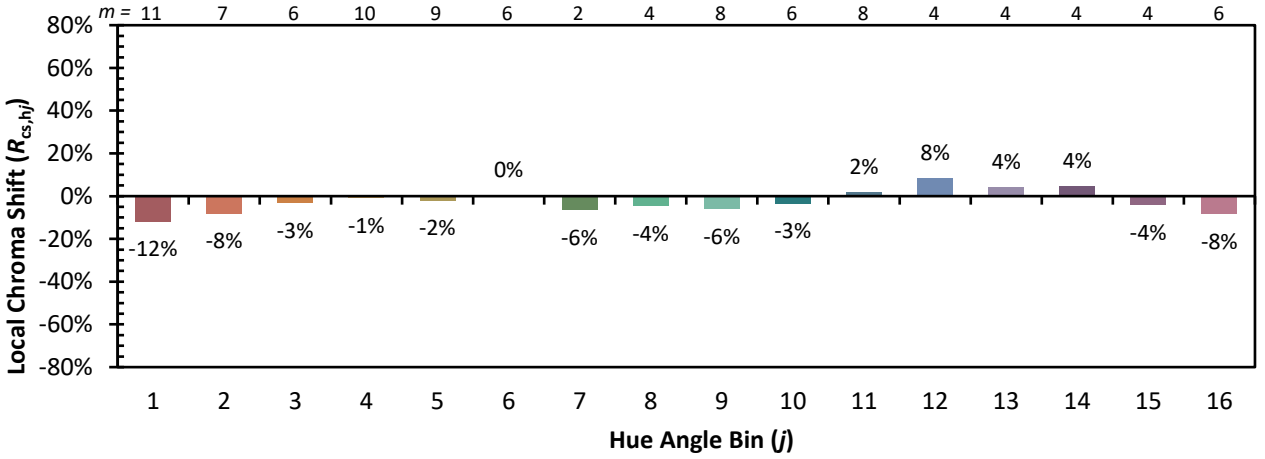
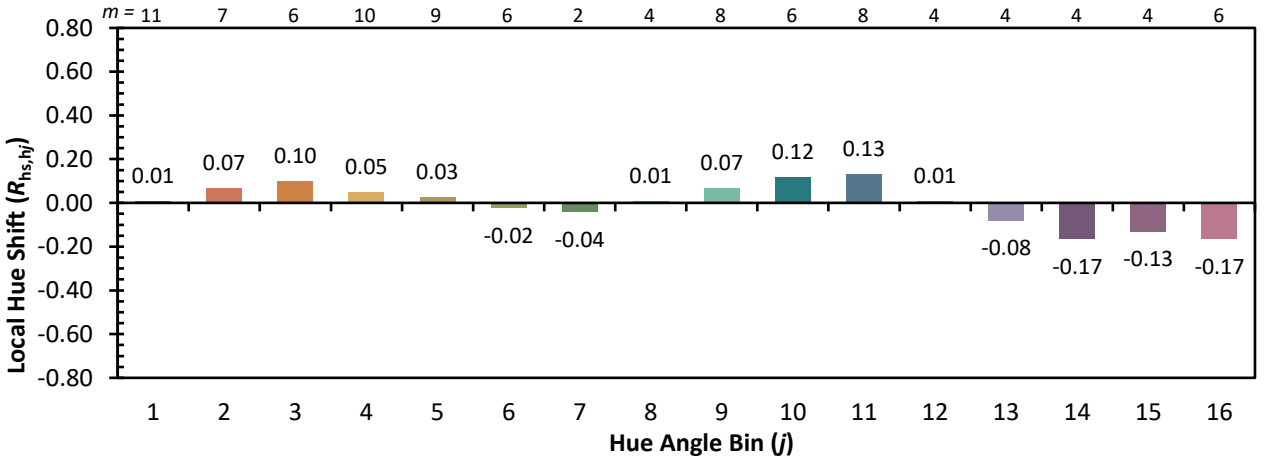
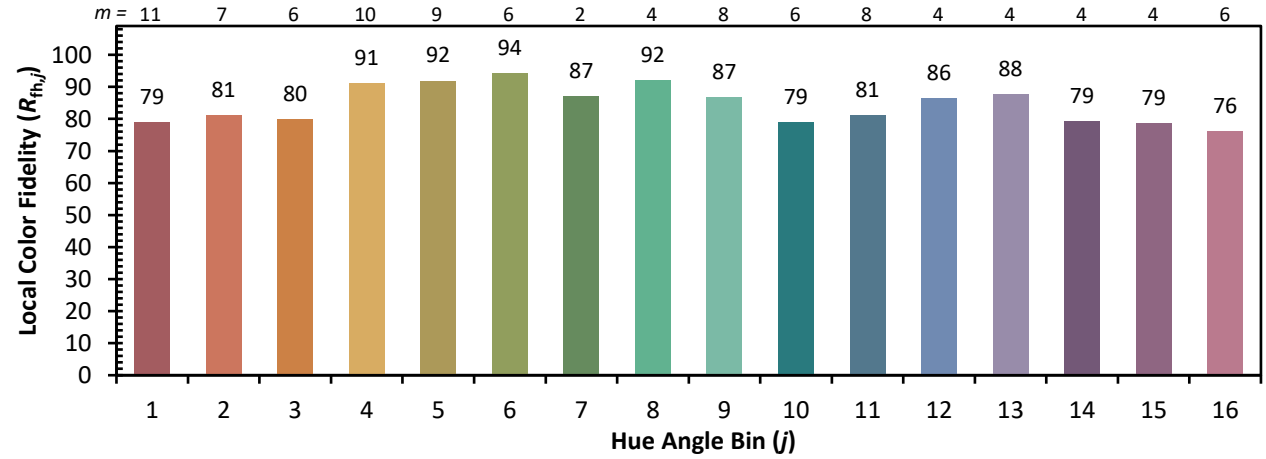
Color Rendition by Hue-Angle Bin







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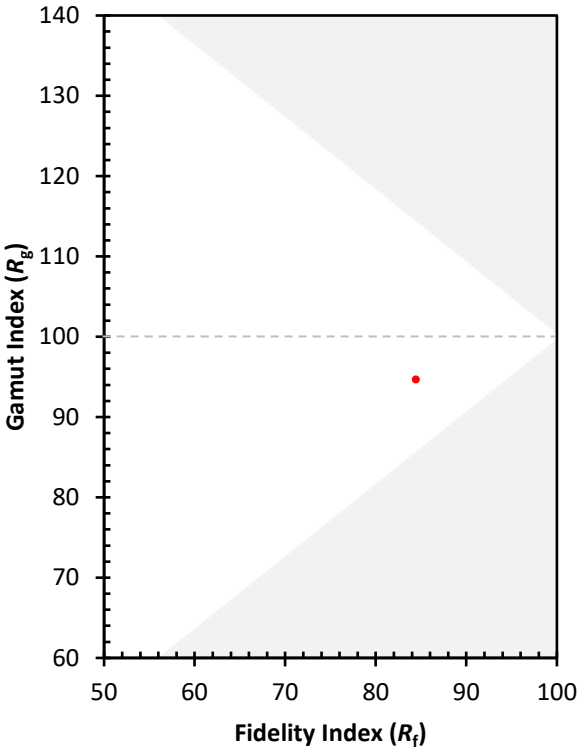
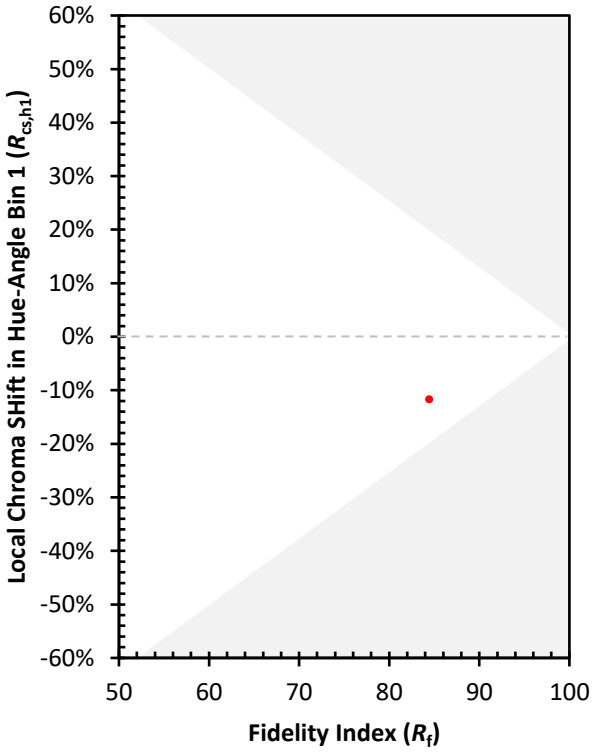
Measure Comparisons





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