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: McGRAW-EDISON

Report Number: P821169

Luminaire Tested: **TT-D4-830-24VDC-RW-UPL**

Issue Date: 10/29/2020

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:	P821169
	REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (G2-2002-677-2) AND
Test Lab:	INNOVATION CENTER
Issue Date:	10/29/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	TT-D4-830-24VDC-RW-UPL
Description:	TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
	3000K, 80 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6222.7 lumens
Efficiency:	N/A
Efficacy:	109.2 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U4 - G3

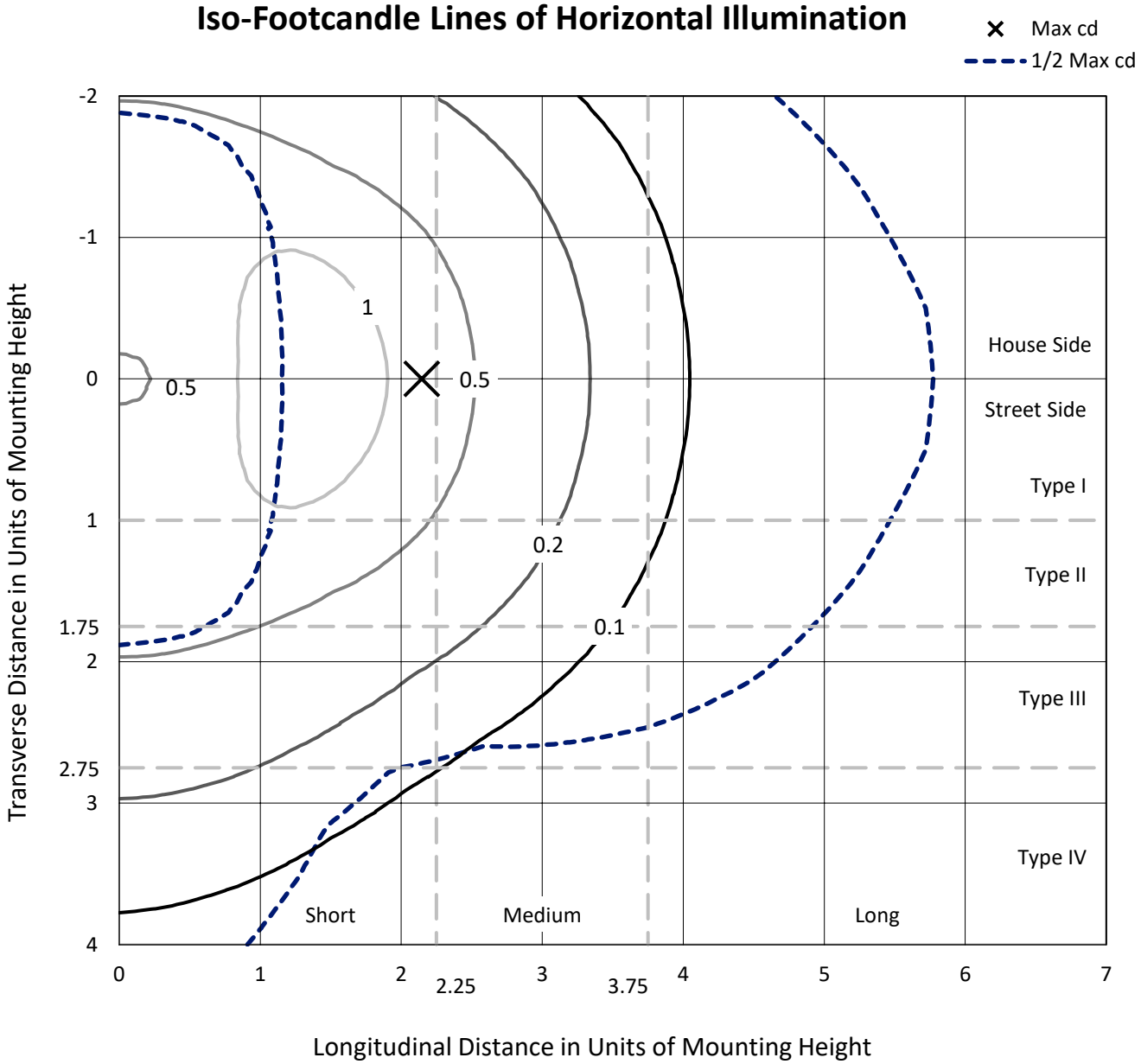
Input Watts (W):	57
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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Scaled Data Report

REPORT NUMBER: P821169
CATALOG NUMBER: TT-D4-830-24VDC-RW-UPL

Iso-Footcandle Lines of Horizontal Illumination



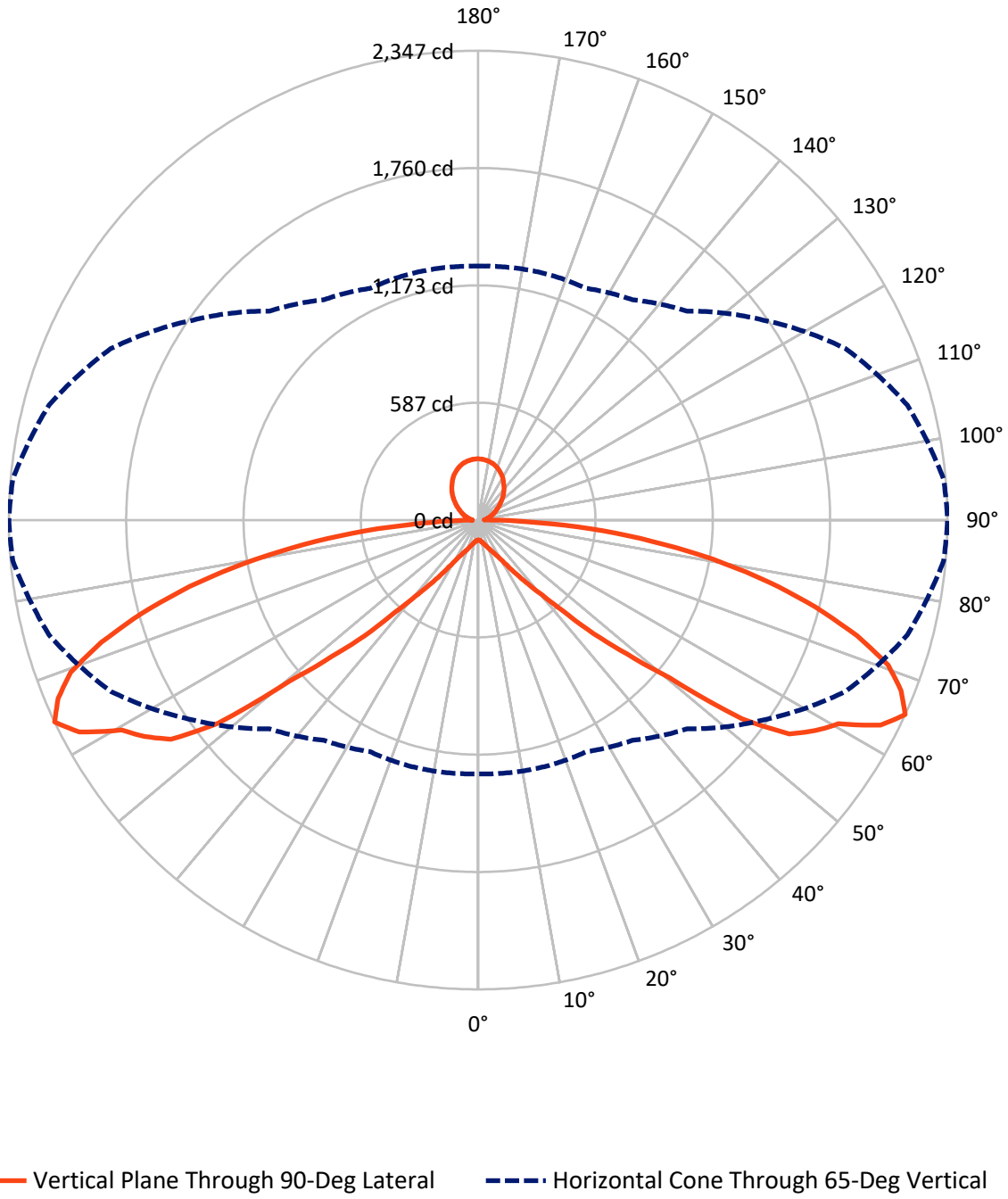
Based on 15 foot mounting height. Maximum calculated value = 1.6 fc
Type IV - Short - N/A

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REPORT NUMBER: P821169
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Luminous Intensity Polar Plot



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Scaled Data Report

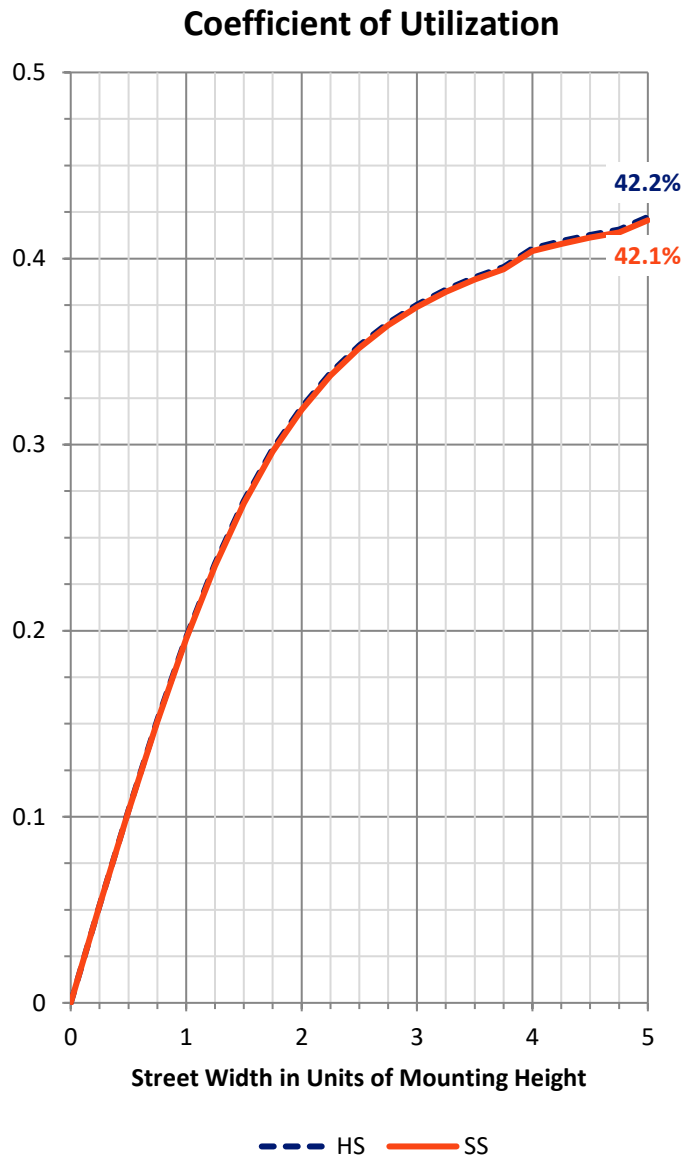
REPORT NUMBER: P821169
CATALOG NUMBER: TT-D4-830-24VDC-RW-UPL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2695.5	415.9	3111.4
	% Fixture	43.3	6.7	50.0
Street Side	Lumens	2695.5	415.9	3111.4
	% Fixture	43.3	6.7	50.0
Total	Lumens	5391.0	831.7	6222.7
	% Fixture	86.6	13.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.3	0.2
10°-20°	38.4	0.6
20°-30°	88.8	1.4
30°-40°	200.7	3.2
40°-50°	488.9	7.9
50°-60°	1099.4	17.7
60°-70°	1606.8	25.8
70°-80°	1400.1	22.5
80°-90°	457.5	7.4
90°-100°	42.6	0.7
100°-110°	66.0	1.1
110°-120°	91.9	1.5
120°-130°	119.0	1.9
130°-140°	138.7	2.2
140°-150°	140.5	2.3
150°-160°	121.9	2.0
160°-170°	82.2	1.3
170°-180°	28.9	0.5
0°-90°	5391.0	86.6
0°-180°	6222.7	100.0



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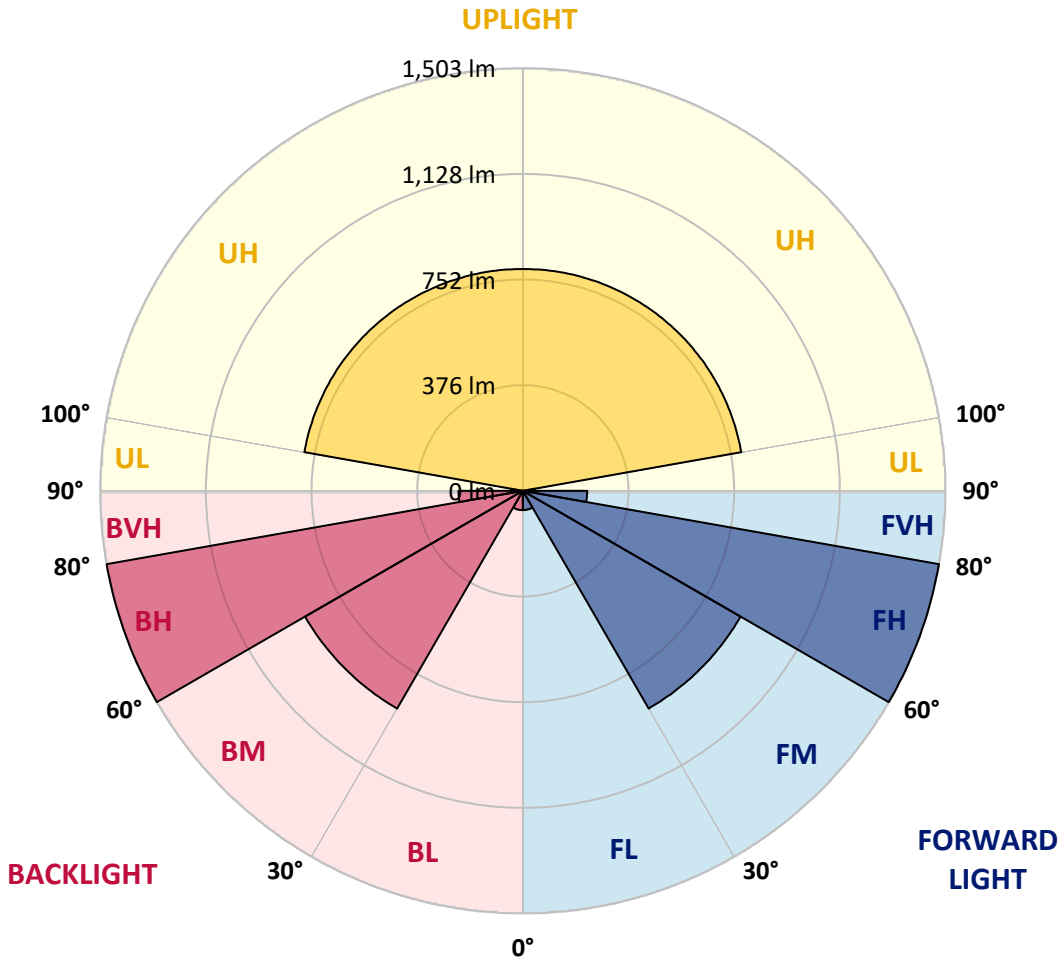
Scaled Data Report

REPORT NUMBER: P821169
CATALOG NUMBER: TT-D4-830-24VDC-RW-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	68.7	1.1			
FM	(30°-60°)	894.5	14.4			
FH	(60°-80°)	1503.5	24.2			G1/1800
FVH	(80°-90°)	228.8	3.7			G3/500
BL	(0°-30°)	68.7	1.1	B0/110		
BM	(30°-60°)	894.5	14.4	B1/1000		
BH	(60°-80°)	1503.5	24.2	B3/2500		G3/2500
BVH	(80°-90°)	228.8	3.7			G3/500
UL	(90°-100°)	42.6	0.7		U2/50	
UH	(100°-180°)	789.1	12.7		U4/1000	

BUG Rating: B3-U4-G3
Type IV Short



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Scaled Data Report

REPORT NUMBER: P821169
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	*98.4*
2.5°	99.7	99.7	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0	*101.0*
5°	103.5	103.5	103.5	103.5	104.8	104.8	103.5	103.5	103.5	103.5	*103.5*
7.5°	109.9	108.6	109.9	109.9	109.9	108.6	108.6	108.6	107.4	107.4	*107.4*
10°	116.3	116.3	117.6	116.3	116.3	115.0	115.0	115.0	113.8	113.8	*113.8*
12.5°	125.3	125.3	125.3	125.3	124.0	124.0	122.7	121.4	120.2	120.2	*120.2*
15°	136.8	135.5	135.5	134.2	132.9	131.7	130.4	130.4	129.1	129.1	*129.1*
17.5°	148.3	148.3	147.0	145.7	143.2	141.9	141.9	140.6	139.3	139.3	*139.3*
20°	162.3	162.3	161.1	158.5	155.9	154.7	153.4	153.4	152.1	152.1	*152.1*
22.5°	178.9	177.7	175.1	172.6	170.0	168.7	167.4	166.2	166.2	166.2	*166.2*
25°	196.8	195.6	194.3	190.5	186.6	185.3	182.8	182.8	181.5	182.8	*182.8*
27.5°	218.6	217.3	214.7	210.9	205.8	203.2	202.0	202.0	203.2	203.2	*204.5*
30°	245.4	242.9	240.3	235.2	230.1	226.2	226.2	227.5	231.4	233.9	*233.9*
32.5°	277.4	276.1	272.3	267.1	258.2	255.6	258.2	265.9	271.0	274.8	*277.4*
35°	314.4	313.2	308.0	299.1	292.7	291.4	299.1	311.9	328.5	333.6	*336.2*
37.5°	355.3	356.6	350.2	340.0	333.6	336.2	351.5	375.8	392.4	403.9	*406.5*
40°	406.5	409.0	401.4	389.9	383.5	393.7	418.0	446.1	475.5	489.5	*493.4*
42.5°	466.5	470.4	460.2	448.6	444.8	461.4	495.9	542.0	594.4	611.0	*617.4*
45°	540.7	543.2	530.5	520.2	517.7	547.1	605.9	682.6	765.6	804.0	*810.4*
47.5°	628.9	627.6	616.1	603.3	605.9	648.0	736.2	839.8	928.0	986.8	*999.6*
50°	729.9	723.5	714.5	699.2	715.8	777.1	888.3	1013.6	1161.9	1214.3	*1237.3*
52.5°	830.8	819.3	811.7	801.4	830.8	910.1	1066.0	1284.6	1508.3	1628.4	*1652.7*
55°	921.6	912.6	908.8	910.1	956.1	1069.9	1274.4	1554.3	1770.3	1870.0	*1887.9*
57.5°	1011.1	1005.9	1002.1	1009.8	1082.6	1230.9	1461.0	1723.0	1900.7	1974.8	*1987.6*
60°	1095.4	1100.5	1098.0	1121.0	1209.2	1358.7	1558.1	1816.3	1987.6	2055.3	*2069.4*
62.5°	1188.7	1192.6	1192.6	1218.1	1289.7	1421.4	1624.6	1926.2	2143.5	2243.2	*2258.6*
65°	*1269.3*	*1271.8*	*1276.9*	*1278.2*	*1344.7*	*1476.3*	*1742.2*	*2027.2*	*2221.5*	*2336.5*	*2346.8*
67.5°	1329.3	1331.9	1325.5	1319.1	1370.2	1489.1	1733.2	2014.4	2187.0	2273.9	*2281.6*
70°	1377.9	1366.4	1348.5	1316.5	1333.2	1422.6	1659.1	1912.2	2086.0	2164.0	*2175.5*
72.5°	1384.3	1374.1	1317.8	1246.2	1225.8	1303.8	1528.7	1756.2	1905.8	1979.9	*1981.2*
75°	1345.9	1319.1	1225.8	1118.4	1080.1	1154.2	1347.2	1554.3	1674.4	1737.1	*1743.5*
77.5°	1216.8	1191.3	1073.7	951.0	907.5	971.4	1135.0	1302.5	1417.5	1478.9	*1482.7*
80°	988.0	979.1	871.7	759.2	706.8	743.9	887.1	1018.7	1112.0	1184.9	*1191.3*
82.5°	728.6	720.9	639.1	540.7	498.5	529.2	631.4	728.6	815.5	874.3	*878.1*
85°	455.0	439.7	388.6	319.5	291.4	311.9	379.6	444.8	522.8	568.8	*571.4*
87.5°	152.1	145.7	125.3	103.5	86.9	90.8	111.2	135.5	198.1	218.6	*231.4*
90°	30.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	*29.1*
92.5°	34.8	34.2	34.2	33.8	33.8	33.8	33.8	33.8	33.8	33.8	*33.8*
95°	39.4	39.4	39.4	38.5	38.5	38.5	38.5	38.5	38.5	38.5	*38.5*
97.5°	44.6	44.6	44.6	44.2	44.2	44.2	44.2	44.2	44.2	44.2	*44.2*
100°	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	*49.8*
102.5°	55.9	55.9	55.9	55.9	55.9	55.9	55.9	56.4	55.9	55.9	*55.9*
105°	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.9	62.0	62.0	*62.0*
107.5°	68.6	68.6	69.0	69.0	69.0	69.0	69.0	69.5	69.0	69.0	*69.0*
110°	75.1	75.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	*76.1*

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Scaled Data Report

REPORT NUMBER: P821169
CATALOG NUMBER: TT-D4-830-24VDC-RW-UPL

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	83.1	83.1	84.0	84.0	84.0	84.0	84.6	84.6	84.0	84.0	*84.0*
115°	91.1	91.1	92.0	92.0	92.0	92.0	93.0	93.0	92.0	92.0	*92.0*
117.5°	100.5	100.5	101.0	101.4	101.4	101.4	102.4	102.4	101.4	101.4	*101.4*
120°	109.9	109.9	109.9	110.8	110.8	110.8	111.8	111.8	110.8	110.8	*110.8*
122.5°	120.7	120.7	121.2	121.6	121.6	121.6	122.6	122.6	122.1	122.1	*121.6*
125°	131.5	131.5	132.4	132.4	132.4	132.4	133.4	133.4	133.4	133.4	*132.4*
127.5°	143.2	143.2	144.2	144.2	144.2	144.2	145.1	145.1	145.1	145.1	*144.2*
130°	155.0	155.0	155.9	155.9	155.9	155.9	156.8	156.8	156.8	156.8	*155.9*
132.5°	167.2	167.2	167.6	167.6	167.6	168.1	168.6	168.6	168.6	168.6	*168.1*
135°	179.4	179.4	179.4	179.4	179.4	180.3	180.3	180.3	180.3	180.3	*180.3*
137.5°	191.2	190.6	191.2	190.6	191.2	191.6	191.6	191.6	191.6	191.6	*191.6*
140°	202.9	201.9	202.9	201.9	202.9	202.9	202.9	202.9	202.9	202.9	*202.9*
142.5°	213.7	213.2	213.7	212.7	213.7	213.7	213.7	213.7	213.7	213.7	*213.7*
145°	224.5	224.5	224.5	223.5	224.5	224.5	224.5	224.5	224.5	224.5	*224.5*
147.5°	235.8	235.3	235.8	234.8	235.8	235.8	235.8	235.8	235.8	235.8	*235.8*
150°	247.0	246.1	247.0	246.1	247.0	247.0	247.0	247.0	247.0	247.0	*247.0*
152.5°	256.0	255.5	256.4	255.5	256.0	256.0	256.4	256.0	256.0	256.0	*256.0*
155°	264.9	264.9	265.8	264.9	264.9	264.9	265.8	264.9	264.9	264.9	*264.9*
157.5°	272.4	272.4	273.3	272.4	272.4	272.4	273.3	272.4	272.4	272.4	*272.4*
160°	279.9	279.9	280.8	279.9	279.9	279.9	280.8	279.9	279.9	279.9	*279.9*
162.5°	286.0	286.0	286.9	286.0	286.0	286.0	286.9	286.0	286.0	286.0	*286.0*
165°	292.1	292.1	293.0	292.1	292.1	292.1	293.0	292.1	292.1	292.1	*292.1*
167.5°	295.8	295.8	296.8	295.8	295.8	295.8	296.8	295.8	295.8	295.8	*295.8*
170°	299.6	299.6	300.5	299.6	299.6	299.6	300.5	299.6	299.6	299.6	*299.6*
172.5°	302.0	302.0	302.8	302.0	302.4	302.0	302.8	302.0	302.0	302.0	*302.0*
175°	304.3	304.3	305.2	304.3	305.2	304.3	305.2	304.3	304.3	304.3	*304.3*
177.5°	305.2	305.2	305.7	305.2	305.7	305.2	305.7	305.2	305.2	305.2	*305.2*
180°	306.2	306.2	306.2	306.2	306.2	306.2	306.2	306.2	306.2	306.2	*306.2*

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Peachtree City, GA 30269

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2407-176-7

Test Date: 09/27/2024

Luminaire Tested: MEM2-HTN-VA-30-830-U-WQ

Data in this report applies to families of products including MEM2-HTN-VA-30-830-U-WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

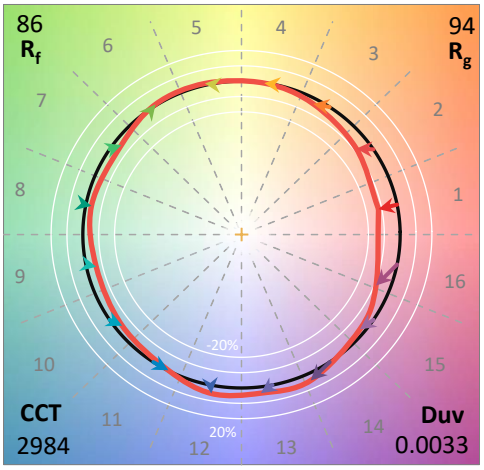
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-176-7
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	09/27/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**MEM2-HTN-VA-30-830-U-WQ**
Description:	EPIC MODERN VISUAL COMFORT 30W WAVESTREAM WIDE

Spectral Parameters

CCT (K):	2984	CRI (Ra):	81.8		
CIE u':	0.2500	R1:	79.4	R9:	-1.1
CIE v':	0.5264	R2:	89.9	R10:	78.4
Duv:	0.0033	R3:	96.6	R11:	80.8
CIE x:	0.4431	R4:	80.6	R12:	72.8
CIE y:	0.4147	R5:	80.1	R13:	81.7
CIE z:	0.1422	R6:	88.9	R14:	98.5
Peak Wavelength (nm):	601	R7:	82.6	R15:	70.2
Dominant Wavelength (nm):	581	R8:	56.0		
Purity:	57.4798				

Rf:	85.8
Rg:	94.1



Test Conditions

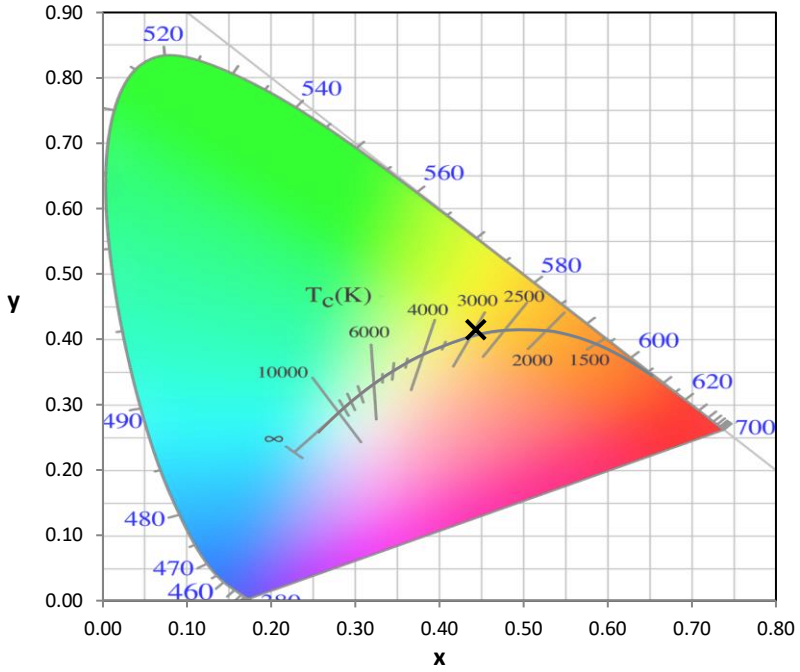
Stabilization Time:	29M
Operation Time:	1H 29M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-176-7

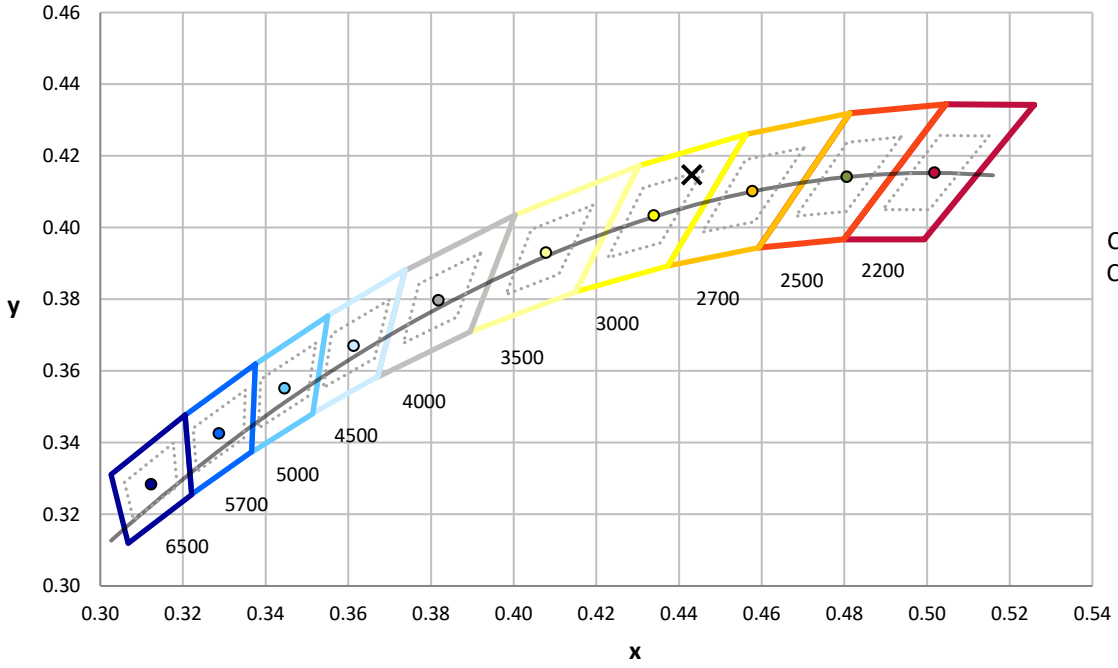
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-176-7

CIE 1931 Chromaticity Diagram



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

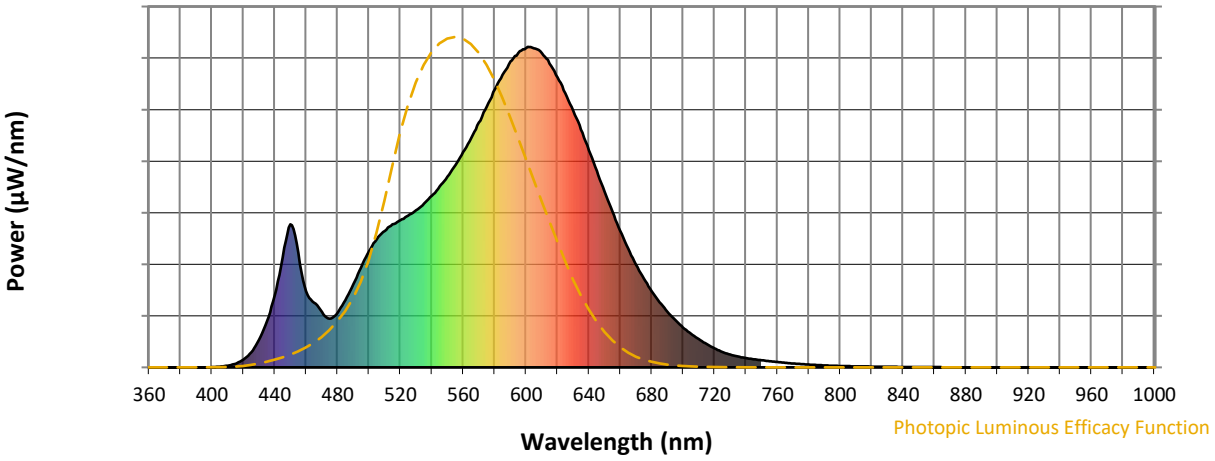


CCT = 2984K
CIE x = 0.4431
CIE y = 0.4147
Duv = 0.0033

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-176-7

Photopic Flux vs. Wavelength

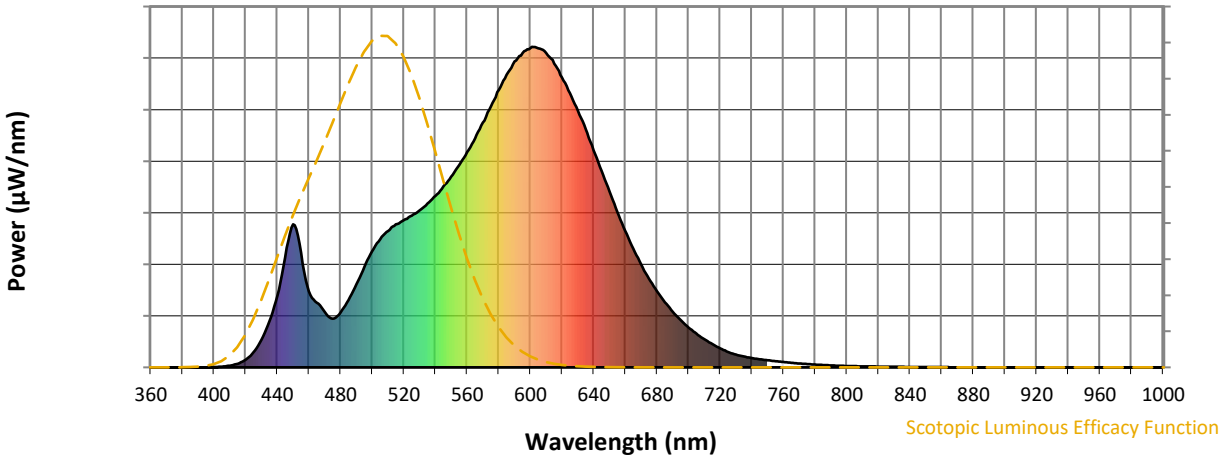


Photopic Lumens: NR

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	260	NR	620	905	NR	750	22	NR	880	0	NR
365	0	NR	495	312	NR	625	856	NR	755	19	NR	885	0	NR
370	0	NR	500	362	NR	630	801	NR	760	17	NR	890	0	NR
375	0	NR	505	399	NR	635	742	NR	765	14	NR	895	0	NR
380	0	NR	510	425	NR	640	677	NR	770	12	NR	900	0	NR
385	0	NR	515	446	NR	645	613	NR	775	10	NR	905	0	NR
390	0	NR	520	459	NR	650	549	NR	780	9	NR	910	0	NR
395	0	NR	525	473	NR	655	485	NR	785	7	NR	915	0	NR
400	1	NR	530	490	NR	660	425	NR	790	6	NR	920	0	NR
405	2	NR	535	511	NR	665	371	NR	795	5	NR	925	0	NR
410	5	NR	540	535	NR	670	321	NR	800	4	NR	930	0	NR
415	11	NR	545	565	NR	675	276	NR	805	4	NR	935	0	NR
420	24	NR	550	595	NR	680	238	NR	810	3	NR	940	0	NR
425	47	NR	555	631	NR	685	203	NR	815	3	NR	945	0	NR
430	86	NR	560	672	NR	690	174	NR	820	2	NR	950	0	NR
435	144	NR	565	715	NR	695	148	NR	825	2	NR	955	0	NR
440	224	NR	570	763	NR	700	124	NR	830	2	NR	960	0	NR
445	342	NR	575	814	NR	705	105	NR	835	2	NR	965	0	NR
450	446	NR	580	866	NR	710	88	NR	840	1	NR	970	0	NR
455	357	NR	585	912	NR	715	73	NR	845	1	NR	975	0	NR
460	237	NR	590	954	NR	720	59	NR	850	1	NR	980	0	NR
465	202	NR	595	981	NR	725	48	NR	855	1	NR	985	0	NR
470	172	NR	600	996	NR	730	40	NR	860	1	NR	990	0	NR
475	152	NR	605	996	NR	735	34	NR	865	1	NR	995	0	NR
480	171	NR	610	980	NR	740	29	NR	870	0	NR	1000	0	NR
485	210	NR	615	947	NR	745	25	NR	875	0	NR			

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Scotopic Flux vs. Wavelength

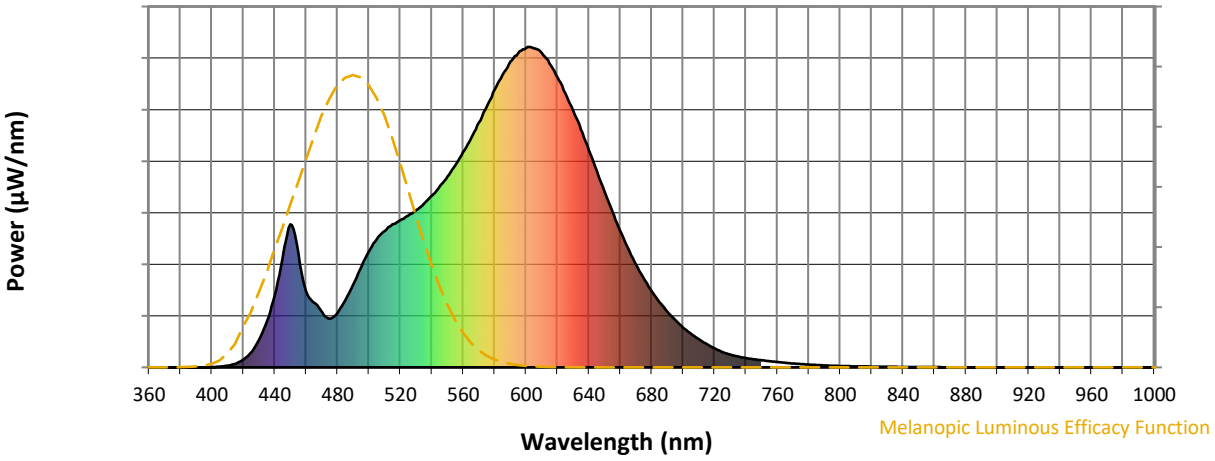


Scotopic Lumens: NR **S/P: 1.32**

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	260	NR	620	905	NR	750	22	NR	880	0	NR
365	0	NR	495	312	NR	625	856	NR	755	19	NR	885	0	NR
370	0	NR	500	362	NR	630	801	NR	760	17	NR	890	0	NR
375	0	NR	505	399	NR	635	742	NR	765	14	NR	895	0	NR
380	0	NR	510	425	NR	640	677	NR	770	12	NR	900	0	NR
385	0	NR	515	446	NR	645	613	NR	775	10	NR	905	0	NR
390	0	NR	520	459	NR	650	549	NR	780	9	NR	910	0	NR
395	0	NR	525	473	NR	655	485	NR	785	7	NR	915	0	NR
400	1	NR	530	490	NR	660	425	NR	790	6	NR	920	0	NR
405	2	NR	535	511	NR	665	371	NR	795	5	NR	925	0	NR
410	5	NR	540	535	NR	670	321	NR	800	4	NR	930	0	NR
415	11	NR	545	565	NR	675	276	NR	805	4	NR	935	0	NR
420	24	NR	550	595	NR	680	238	NR	810	3	NR	940	0	NR
425	47	NR	555	631	NR	685	203	NR	815	3	NR	945	0	NR
430	86	NR	560	672	NR	690	174	NR	820	2	NR	950	0	NR
435	144	NR	565	715	NR	695	148	NR	825	2	NR	955	0	NR
440	224	NR	570	763	NR	700	124	NR	830	2	NR	960	0	NR
445	342	NR	575	814	NR	705	105	NR	835	2	NR	965	0	NR
450	446	NR	580	866	NR	710	88	NR	840	1	NR	970	0	NR
455	357	NR	585	912	NR	715	73	NR	845	1	NR	975	0	NR
460	237	NR	590	954	NR	720	59	NR	850	1	NR	980	0	NR
465	202	NR	595	981	NR	725	48	NR	855	1	NR	985	0	NR
470	172	NR	600	996	NR	730	40	NR	860	1	NR	990	0	NR
475	152	NR	605	996	NR	735	34	NR	865	1	NR	995	0	NR
480	171	NR	610	980	NR	740	29	NR	870	0	NR	1000	0	NR
485	210	NR	615	947	NR	745	25	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.51**

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	260	NR	620	905	NR	750	22	NR	880	0	NR
365	0	NR	495	312	NR	625	856	NR	755	19	NR	885	0	NR
370	0	NR	500	362	NR	630	801	NR	760	17	NR	890	0	NR
375	0	NR	505	399	NR	635	742	NR	765	14	NR	895	0	NR
380	0	NR	510	425	NR	640	677	NR	770	12	NR	900	0	NR
385	0	NR	515	446	NR	645	613	NR	775	10	NR	905	0	NR
390	0	NR	520	459	NR	650	549	NR	780	9	NR	910	0	NR
395	0	NR	525	473	NR	655	485	NR	785	7	NR	915	0	NR
400	1	NR	530	490	NR	660	425	NR	790	6	NR	920	0	NR
405	2	NR	535	511	NR	665	371	NR	795	5	NR	925	0	NR
410	5	NR	540	535	NR	670	321	NR	800	4	NR	930	0	NR
415	11	NR	545	565	NR	675	276	NR	805	4	NR	935	0	NR
420	24	NR	550	595	NR	680	238	NR	810	3	NR	940	0	NR
425	47	NR	555	631	NR	685	203	NR	815	3	NR	945	0	NR
430	86	NR	560	672	NR	690	174	NR	820	2	NR	950	0	NR
435	144	NR	565	715	NR	695	148	NR	825	2	NR	955	0	NR
440	224	NR	570	763	NR	700	124	NR	830	2	NR	960	0	NR
445	342	NR	575	814	NR	705	105	NR	835	2	NR	965	0	NR
450	446	NR	580	866	NR	710	88	NR	840	1	NR	970	0	NR
455	357	NR	585	912	NR	715	73	NR	845	1	NR	975	0	NR
460	237	NR	590	954	NR	720	59	NR	850	1	NR	980	0	NR
465	202	NR	595	981	NR	725	48	NR	855	1	NR	985	0	NR
470	172	NR	600	996	NR	730	40	NR	860	1	NR	990	0	NR
475	152	NR	605	996	NR	735	34	NR	865	1	NR	995	0	NR
480	171	NR	610	980	NR	740	29	NR	870	0	NR	1000	0	NR
485	210	NR	615	947	NR	745	25	NR	875	0	NR			

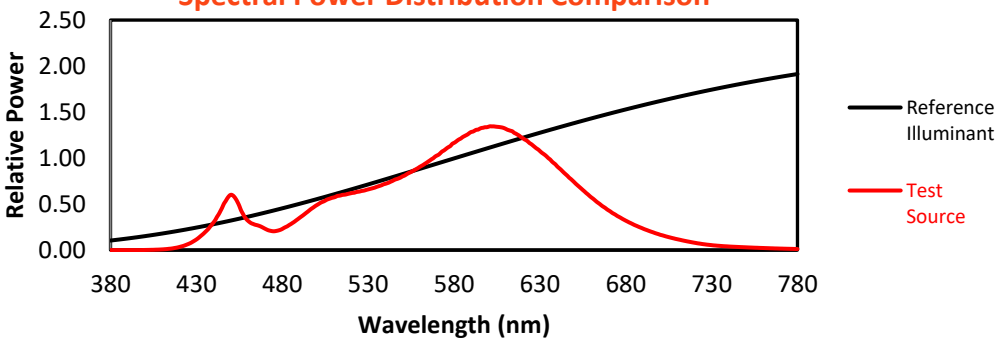
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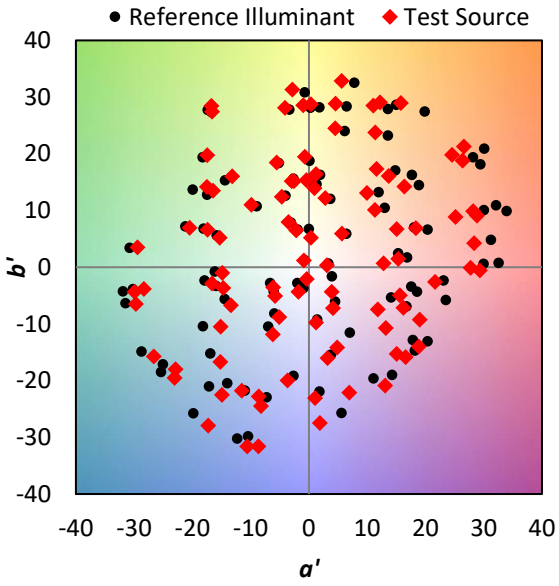
Summary

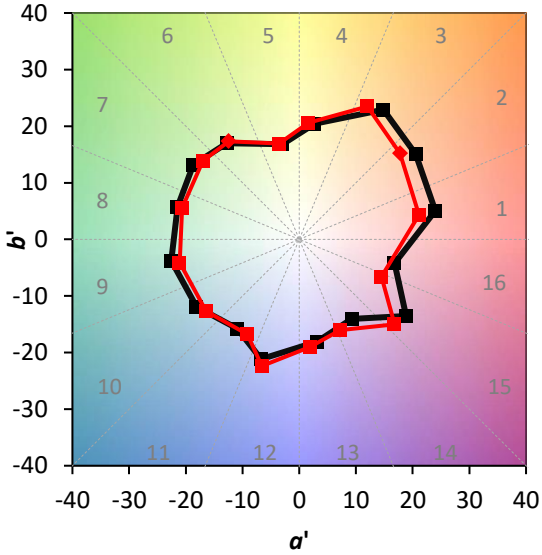
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R_g = 94.1
CIE R_a = 81.8
R_9 = -1.1

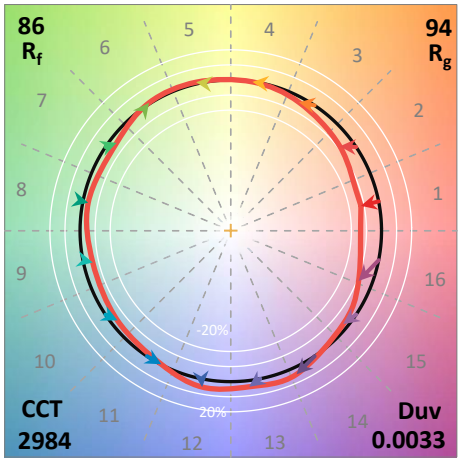
Spectral Power Distribution Comparison

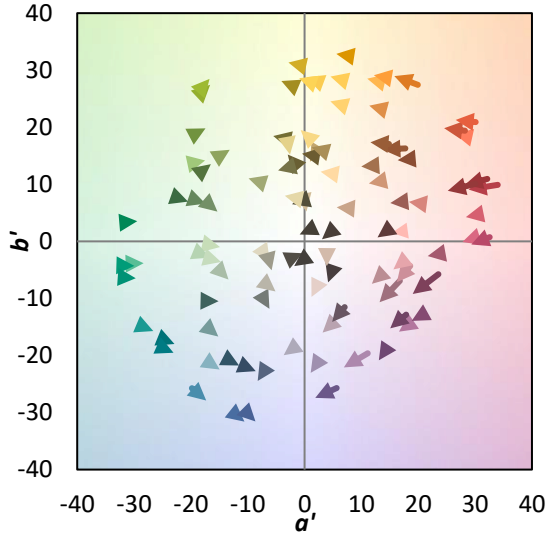


Color Vector Graphics







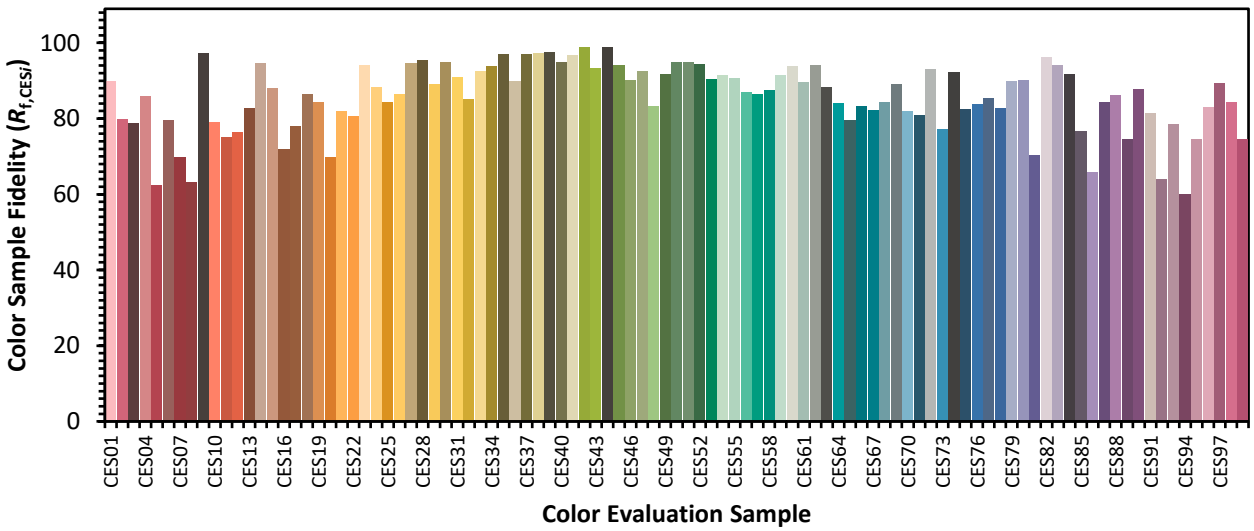


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Individual Sample Fidelity Index ($R_{f,i}$)

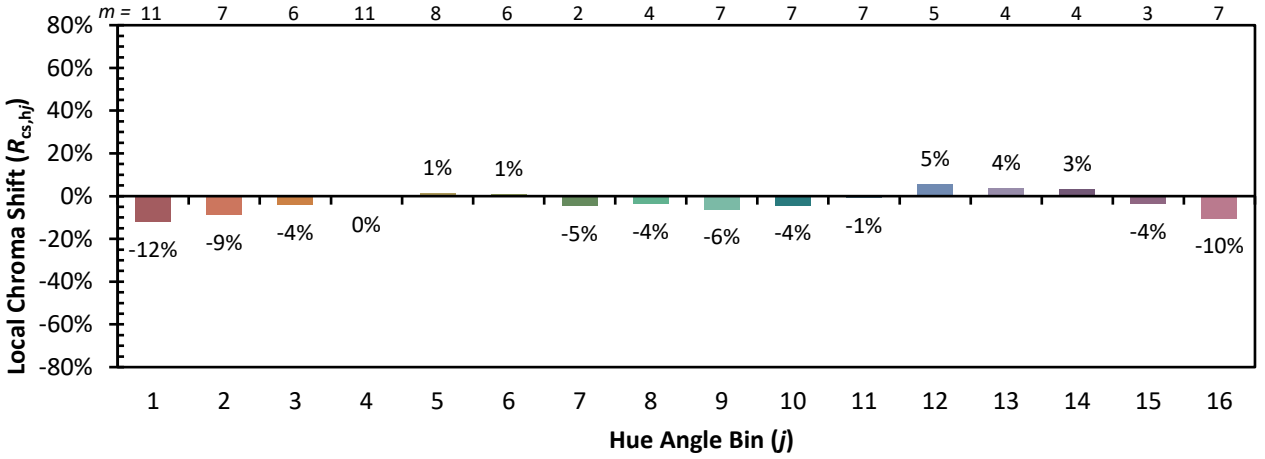
CES01 = 86	CES26 = 86	CES51 = 95	CES76 = 84
CES02 = 63	CES27 = 95	CES52 = 94	CES77 = 86
CES03 = 31	CES28 = 95	CES53 = 90	CES78 = 83
CES04 = 70	CES29 = 89	CES54 = 91	CES79 = 90
CES05 = 50	CES30 = 95	CES55 = 91	CES80 = 90
CES06 = 51	CES31 = 91	CES56 = 87	CES81 = 70
CES07 = 42	CES32 = 85	CES57 = 86	CES82 = 96
CES08 = 41	CES33 = 93	CES58 = 87	CES83 = 94
CES09 = 29	CES34 = 94	CES59 = 92	CES84 = 92
CES10 = 76	CES35 = 97	CES60 = 94	CES85 = 77
CES11 = 59	CES36 = 90	CES61 = 90	CES86 = 66
CES12 = 65	CES37 = 97	CES62 = 94	CES87 = 84
CES13 = 43	CES38 = 97	CES63 = 88	CES88 = 86
CES14 = 74	CES39 = 98	CES64 = 84	CES89 = 75
CES15 = 72	CES40 = 95	CES65 = 80	CES90 = 88
CES16 = 47	CES41 = 97	CES66 = 83	CES91 = 81
CES17 = 50	CES42 = 99	CES67 = 82	CES92 = 64
CES18 = 56	CES43 = 93	CES68 = 84	CES93 = 79
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 60
CES20 = 67	CES45 = 94	CES70 = 82	CES95 = 74
CES21 = 87	CES46 = 90	CES71 = 81	CES96 = 83
CES22 = 79	CES47 = 93	CES72 = 93	CES97 = 89
CES23 = 92	CES48 = 83	CES73 = 77	CES98 = 84
CES24 = 91	CES49 = 92	CES74 = 92	CES99 = 75
CES25 = 72	CES50 = 95	CES75 = 83	

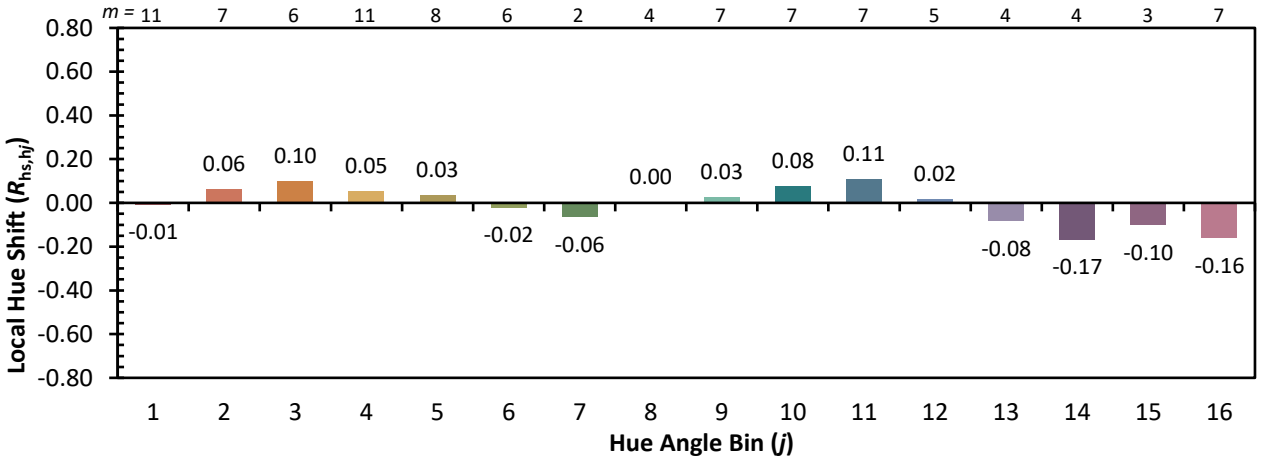


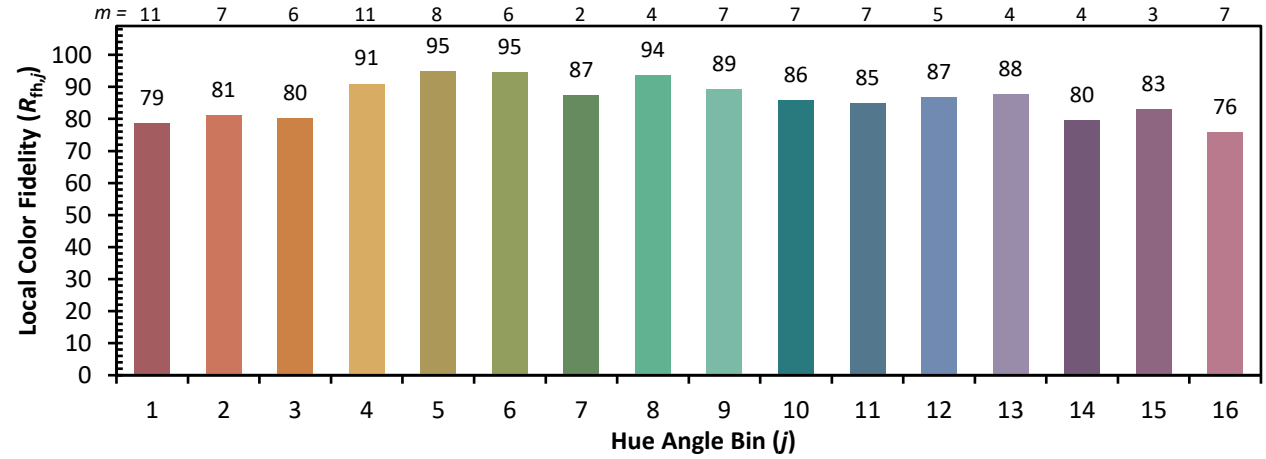
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Color Rendition by Hue-Angle Bin



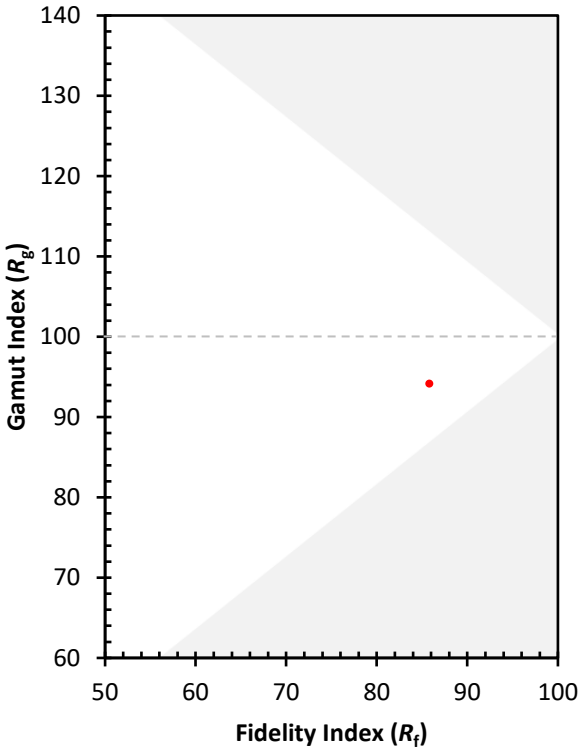


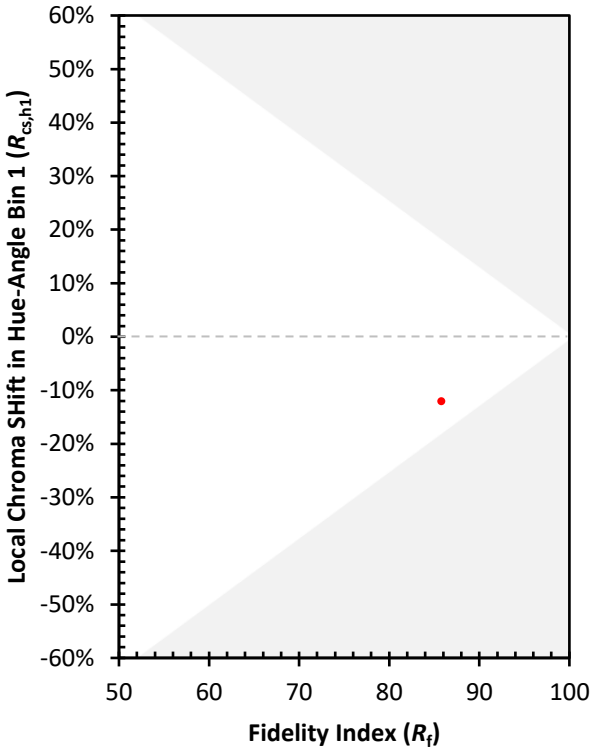


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Measure Comparisons





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