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: P821124

Luminaire Tested: **TT-D1-830-24VDC-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:	P821124
	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-D1-830-24VDC-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:	3592.7 lumens
Efficiency:	N/A
Efficacy:	128.3 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U4 - G2

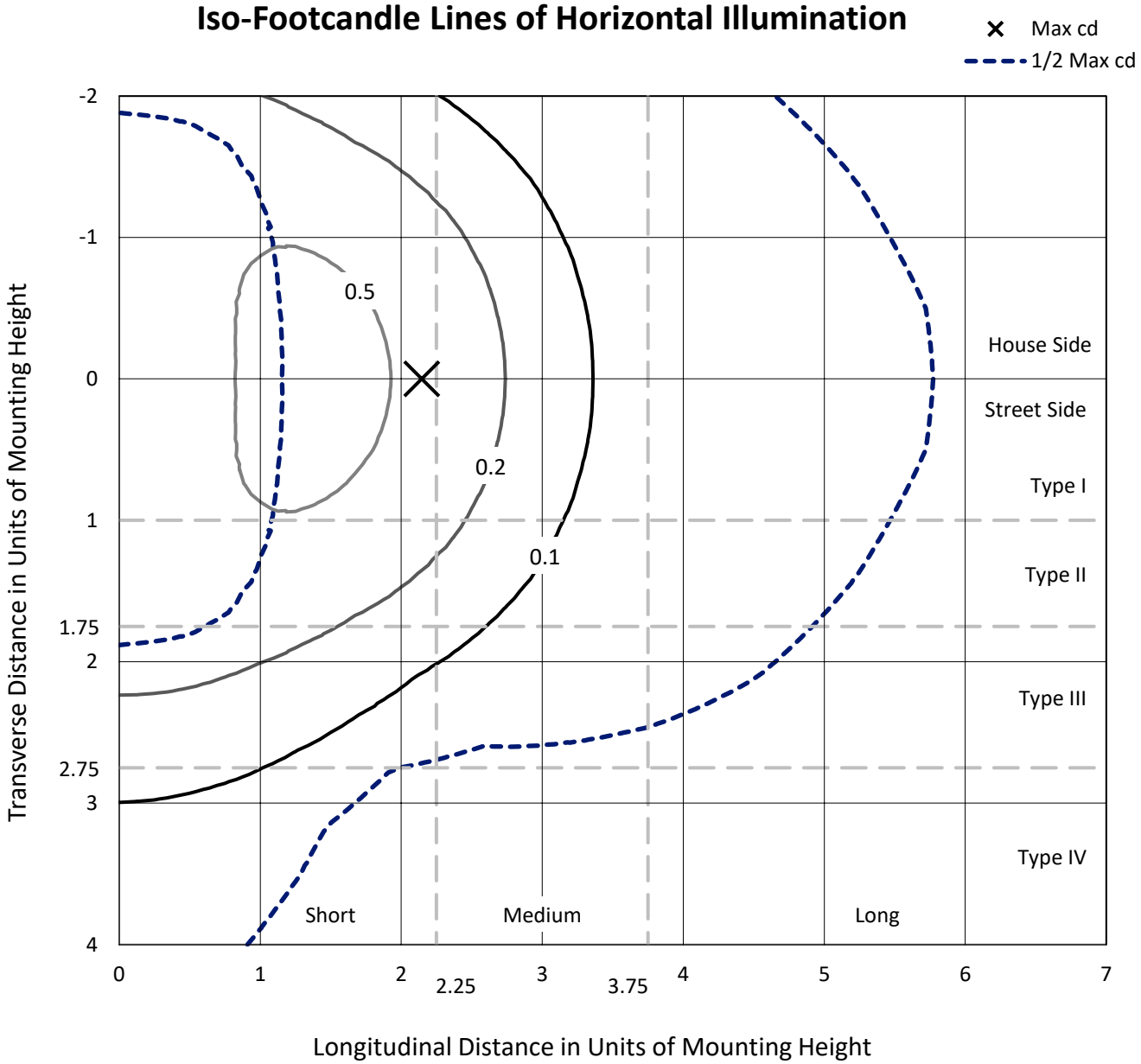
Input Watts (W):	28
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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Scaled Data Report

REPORT NUMBER: P821124
CATALOG NUMBER: TT-D1-830-24VDC-RW-UPL

Iso-Footcandle Lines of Horizontal Illumination



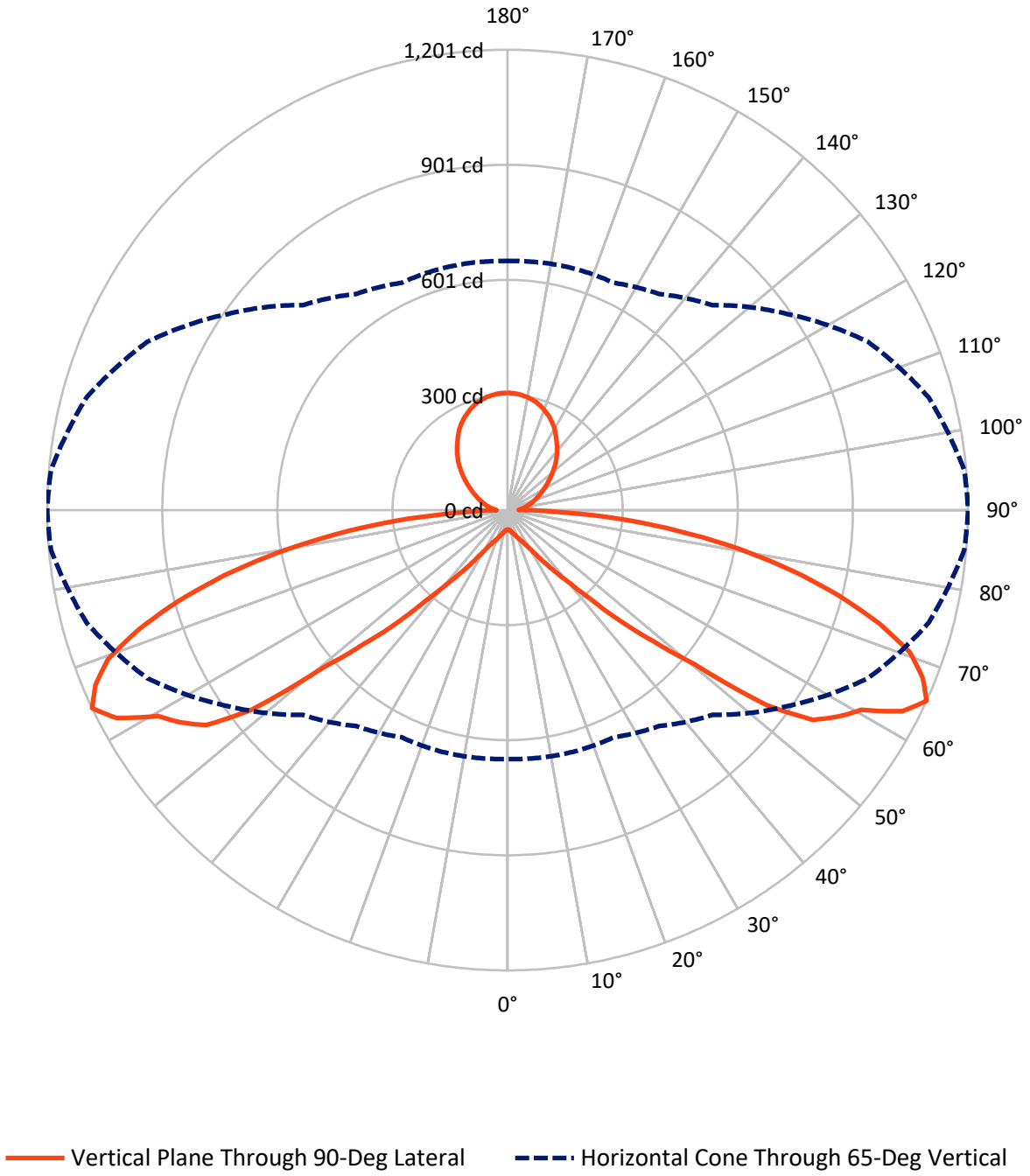
Based on 15 foot mounting height. Maximum calculated value = 0.8 fc
Type IV - Short - N/A

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REPORT NUMBER: P821124
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Luminous Intensity Polar Plot



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Scaled Data Report

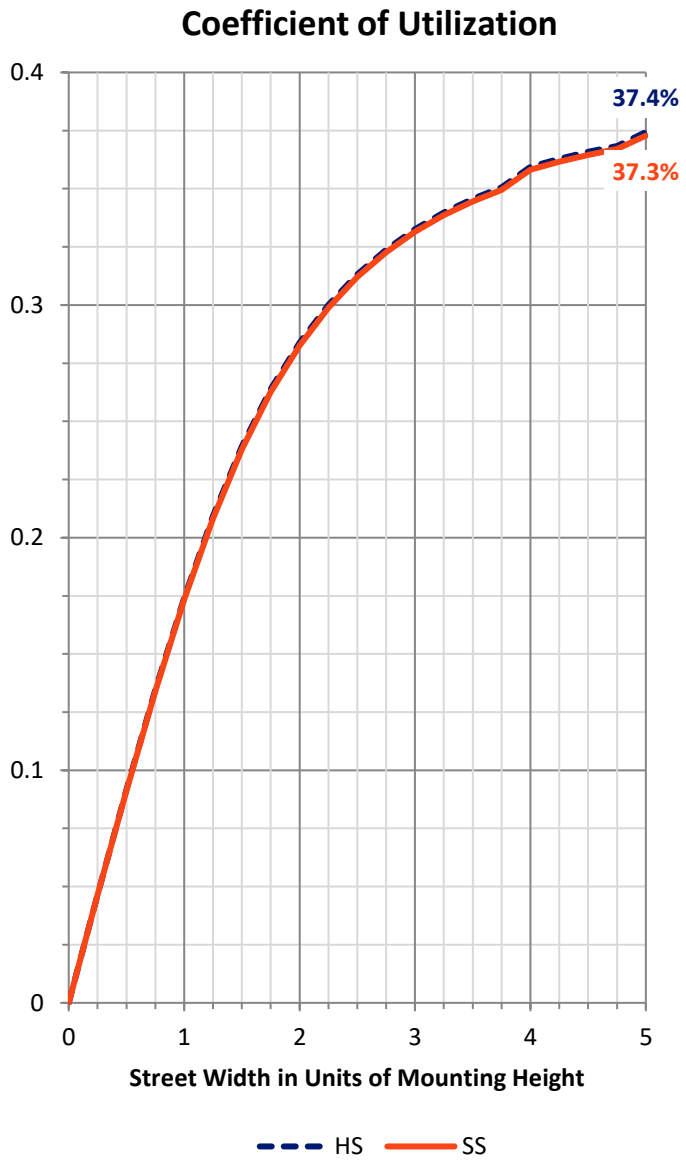
REPORT NUMBER: P821124
CATALOG NUMBER: TT-D1-830-24VDC-RW-UPL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1380.5	415.9	1796.4
	% Fixture	38.4	11.6	50.0
Street Side	Lumens	1380.5	415.9	1796.4
	% Fixture	38.4	11.6	50.0
Total	Lumens	2761.0	831.7	3592.7
	% Fixture	76.8	23.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.1
10°-20°	19.7	0.5
20°-30°	45.4	1.3
30°-40°	102.7	2.9
40°-50°	250.2	7.0
50°-60°	562.7	15.7
60°-70°	822.3	22.9
70°-80°	716.6	19.9
80°-90°	236.1	6.6
90°-100°	42.6	1.2
100°-110°	66.0	1.8
110°-120°	91.9	2.6
120°-130°	119.0	3.3
130°-140°	138.7	3.9
140°-150°	140.5	3.9
150°-160°	121.9	3.4
160°-170°	82.2	2.3
170°-180°	28.9	0.8
0°-90°	2761.0	76.8
0°-180°	3592.7	100.0



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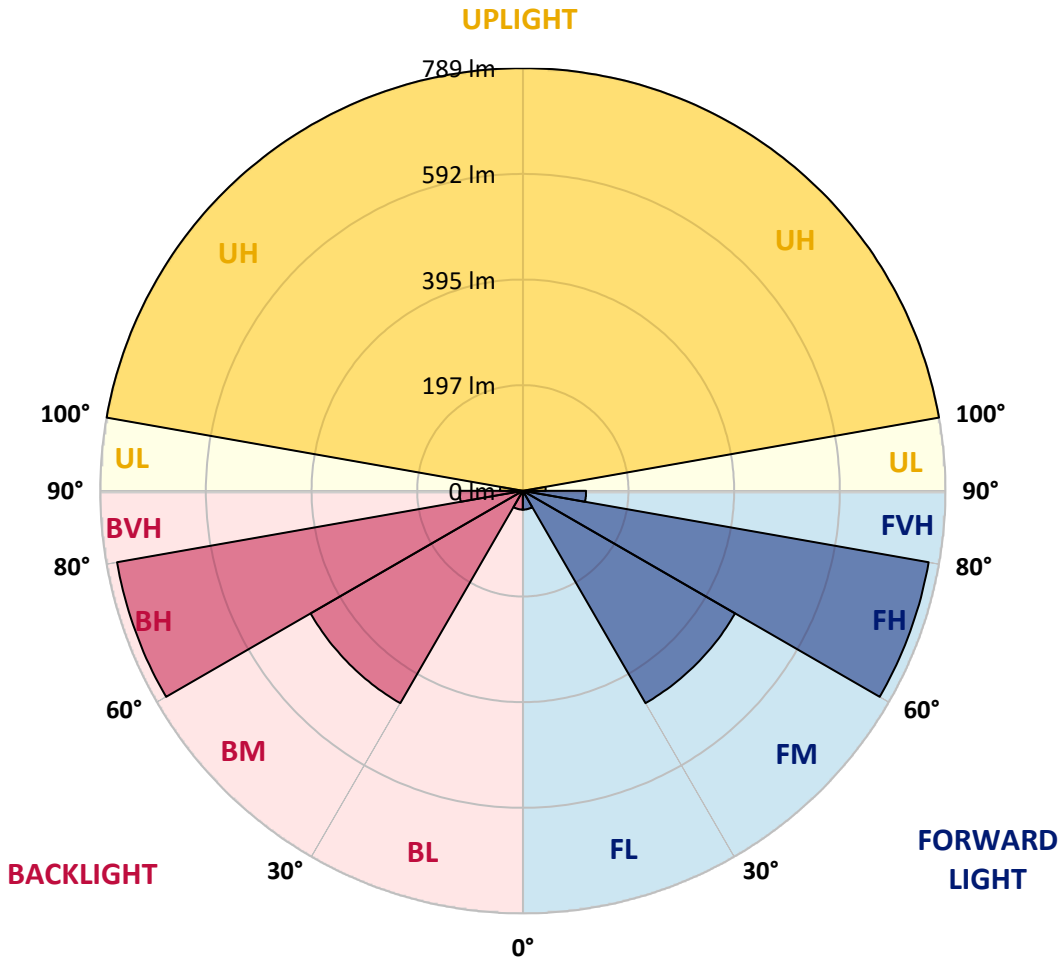
Scaled Data Report

REPORT NUMBER: P821124
CATALOG NUMBER: TT-D1-830-24VDC-RW-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	35.2	1.0			
FM	(30°-60°)	457.8	12.7			
FH	(60°-80°)	769.5	21.4			G1/1800
FVH	(80°-90°)	118.0	3.3			G2/225
BL	(0°-30°)	35.2	1.0	B0/110		
BM	(30°-60°)	457.8	12.7	B1/1000		
BH	(60°-80°)	769.5	21.4	B2/1000		G2/1000
BVH	(80°-90°)	118.0	3.3			G2/225
UL	(90°-100°)	42.6	1.2		U2/50	
UH	(100°-180°)	789.1	22.0		U4/1000	

BUG Rating: B2-U4-G2
Type IV Short



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REPORT NUMBER: P821124
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	*50.4*
2.5°	51.0	51.0	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	*51.7*
5°	53.0	53.0	53.0	53.0	53.6	53.6	53.0	53.0	53.0	53.0	*53.0*
7.5°	56.3	55.6	56.3	56.3	56.3	55.6	55.6	55.6	54.9	54.9	*54.9*
10°	59.5	59.5	60.2	59.5	59.5	58.9	58.9	58.9	58.2	58.2	*58.2*
12.5°	64.1	64.1	64.1	64.1	63.5	63.5	62.8	62.1	61.5	61.5	*61.5*
15°	70.0	69.3	69.3	68.7	68.0	67.4	66.7	66.7	66.1	66.1	*66.1*
17.5°	75.9	75.9	75.2	74.6	73.3	72.6	72.6	72.0	71.3	71.3	*71.3*
20°	83.1	83.1	82.4	81.1	79.8	79.2	78.5	78.5	77.8	77.8	*77.8*
22.5°	91.6	90.9	89.6	88.3	87.0	86.3	85.7	85.0	85.0	85.0	*85.0*
25°	100.7	100.1	99.4	97.5	95.5	94.9	93.5	93.5	92.9	93.5	*93.5*
27.5°	111.9	111.2	109.9	107.9	105.3	104.0	103.4	103.4	104.0	104.0	*104.7*
30°	125.6	124.3	123.0	120.4	117.7	115.8	115.8	116.4	118.4	119.7	*119.7*
32.5°	142.0	141.3	139.3	136.7	132.1	130.8	132.1	136.1	138.7	140.6	*142.0*
35°	160.9	160.3	157.7	153.1	149.8	149.1	153.1	159.6	168.1	170.7	*172.0*
37.5°	181.9	182.5	179.2	174.0	170.7	172.0	179.9	192.3	200.8	206.7	*208.0*
40°	208.0	209.3	205.4	199.5	196.2	201.5	213.9	228.3	243.3	250.5	*252.5*
42.5°	238.8	240.7	235.5	229.6	227.6	236.2	253.8	277.4	304.2	312.7	*316.0*
45°	276.7	278.0	271.5	266.2	264.9	280.0	310.1	349.3	391.8	411.5	*414.7*
47.5°	321.8	321.2	315.3	308.8	310.1	331.7	376.8	429.8	474.9	505.0	*511.6*
50°	373.5	370.3	365.7	357.8	366.3	397.7	454.6	518.8	594.6	621.5	*633.2*
52.5°	425.2	419.3	415.4	410.2	425.2	465.8	545.6	657.4	771.9	833.4	*845.8*
55°	471.7	467.1	465.1	465.8	489.3	547.5	652.2	795.5	906.0	957.0	*966.2*
57.5°	517.4	514.8	512.9	516.8	554.1	630.0	747.7	881.8	972.7	1010.7	*1017.2*
60°	560.6	563.2	561.9	573.7	618.8	695.4	797.4	929.6	1017.2	1051.9	*1059.1*
62.5°	608.4	610.3	610.3	623.4	660.1	727.4	831.4	985.8	1097.0	1148.1	*1155.9*
65°	*649.6*	*650.9*	*653.5*	*654.2*	*688.2*	*755.6*	*891.6*	*1037.5*	*1136.9*	*1195.8*	*1201.0*
67.5°	680.3	681.6	678.4	675.1	701.3	762.1	887.0	1031.0	1119.3	1163.8	*1167.7*
70°	705.2	699.3	690.1	673.8	682.3	728.1	849.1	978.6	1067.6	1107.5	*1113.4*
72.5°	708.5	703.2	674.4	637.8	627.3	667.2	782.4	898.8	975.4	1013.3	*1014.0*
75°	688.8	675.1	627.3	572.4	552.8	590.7	689.5	795.5	857.0	889.0	*892.3*
77.5°	622.8	609.7	549.5	486.7	464.5	497.2	580.9	666.6	725.5	756.9	*758.8*
80°	505.7	501.1	446.1	388.6	361.8	380.7	454.0	521.4	569.1	606.4	*609.7*
82.5°	372.9	368.9	327.1	276.7	255.1	270.8	323.2	372.9	417.4	447.4	*449.4*
85°	232.9	225.0	198.9	163.5	149.1	159.6	194.3	227.6	267.6	291.1	*292.4*
87.5°	77.8	74.6	64.1	53.0	44.5	46.4	56.9	69.3	101.4	111.9	*118.4*
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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REPORT NUMBER: P821124
CATALOG NUMBER: TT-D1-830-24VDC-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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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

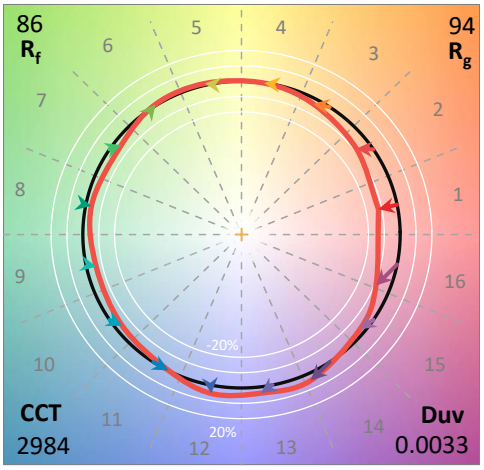
Test Information

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

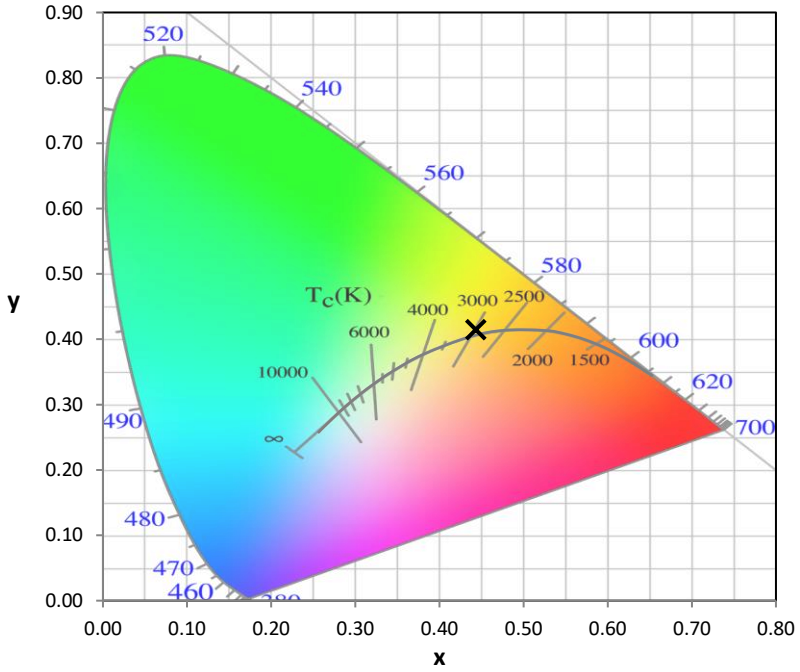
Stabilization Time:	29M
Operation Time:	1H 29M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-176-7

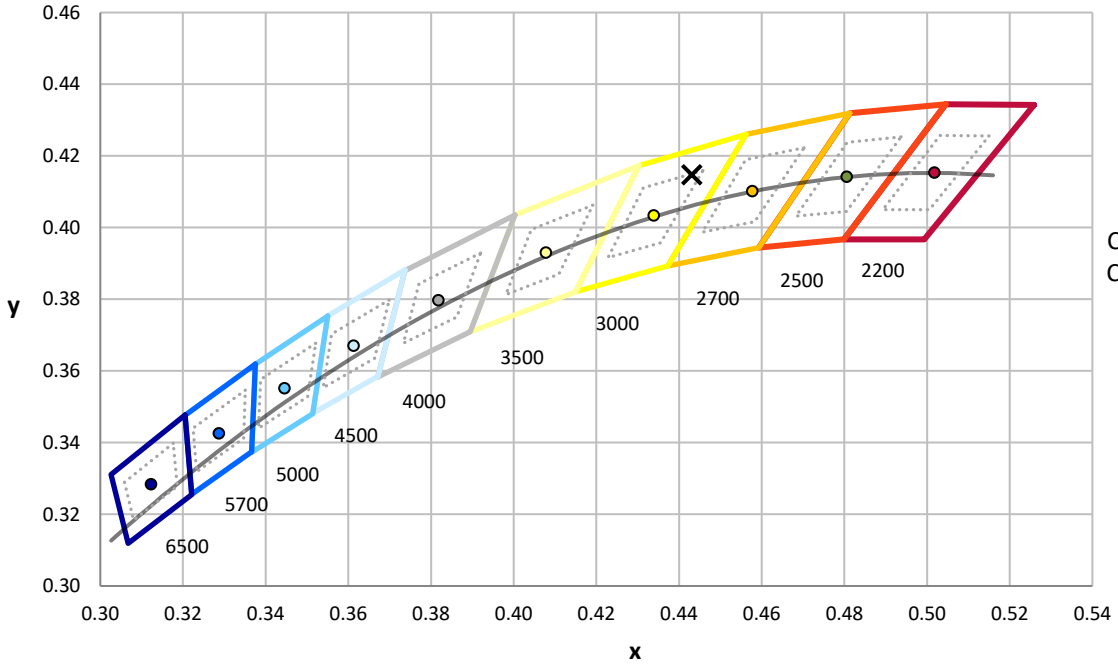
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

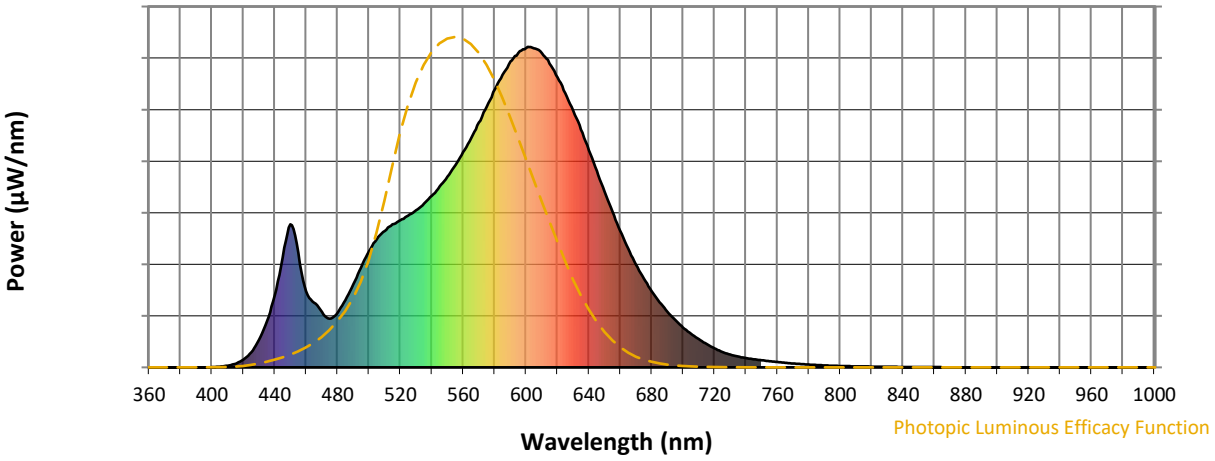


CCT = 2984K
CIE x = 0.4431
CIE y = 0.4147
Duv = 0.0033

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-176-7

Photopic Flux vs. Wavelength

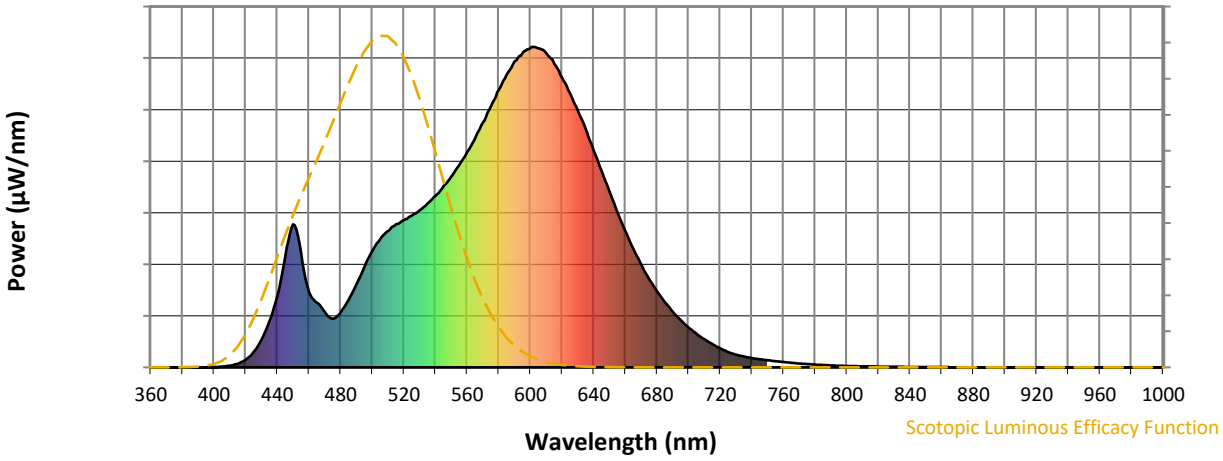


Photopic Lumens: NR

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

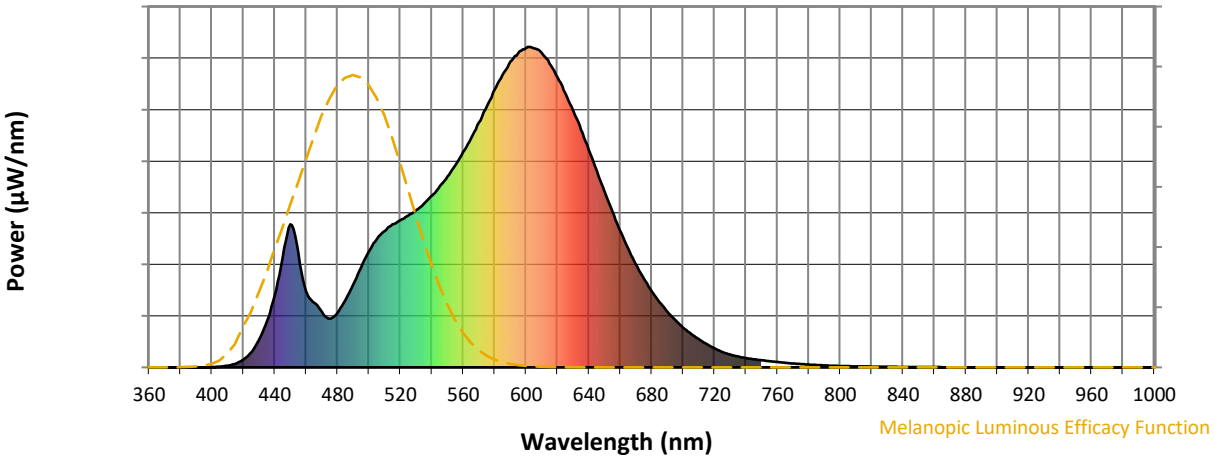


Scotopic Lumens: NR **S/P: 1.32**

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			

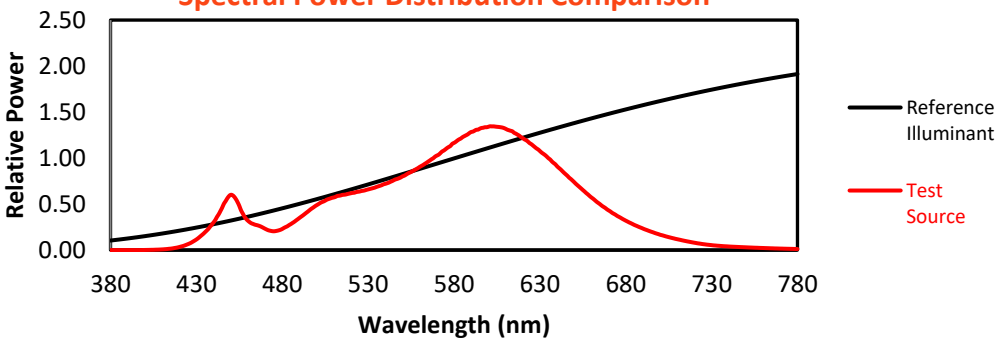
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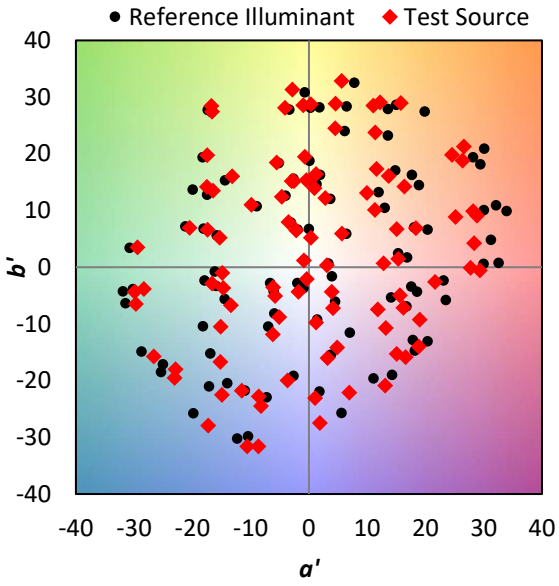
Summary

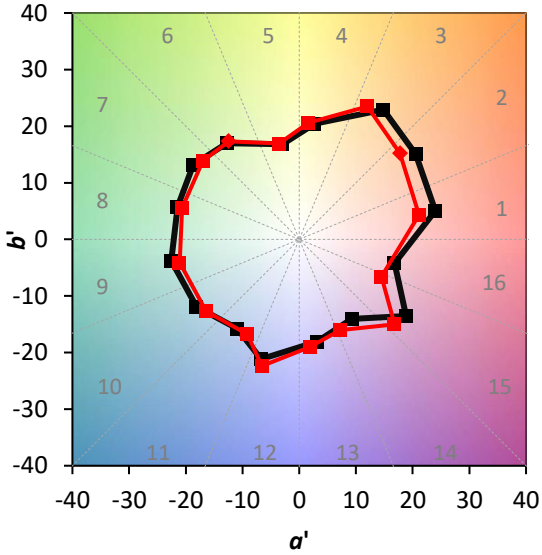
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R_g = 94.1
CIE R_a = 81.8
R_9 = -1.1

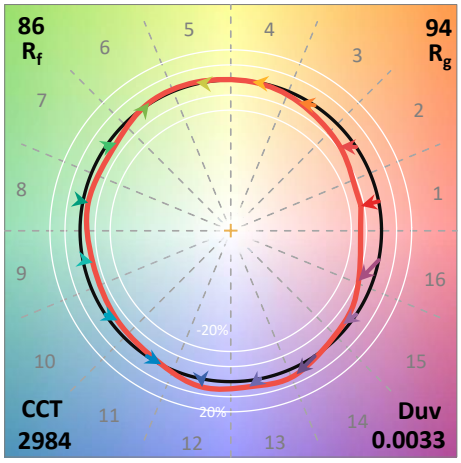
Spectral Power Distribution Comparison

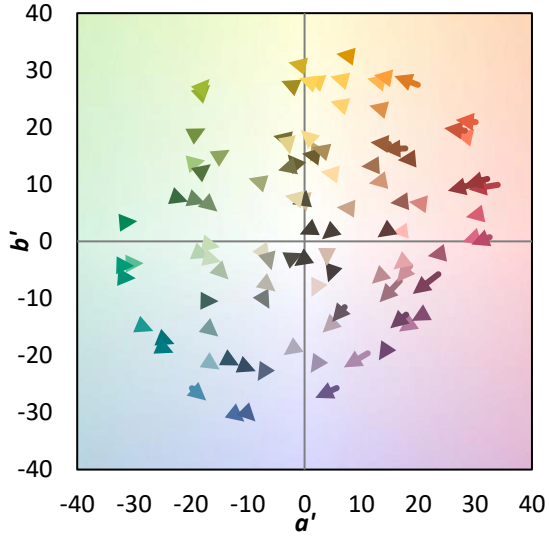


Color Vector Graphics







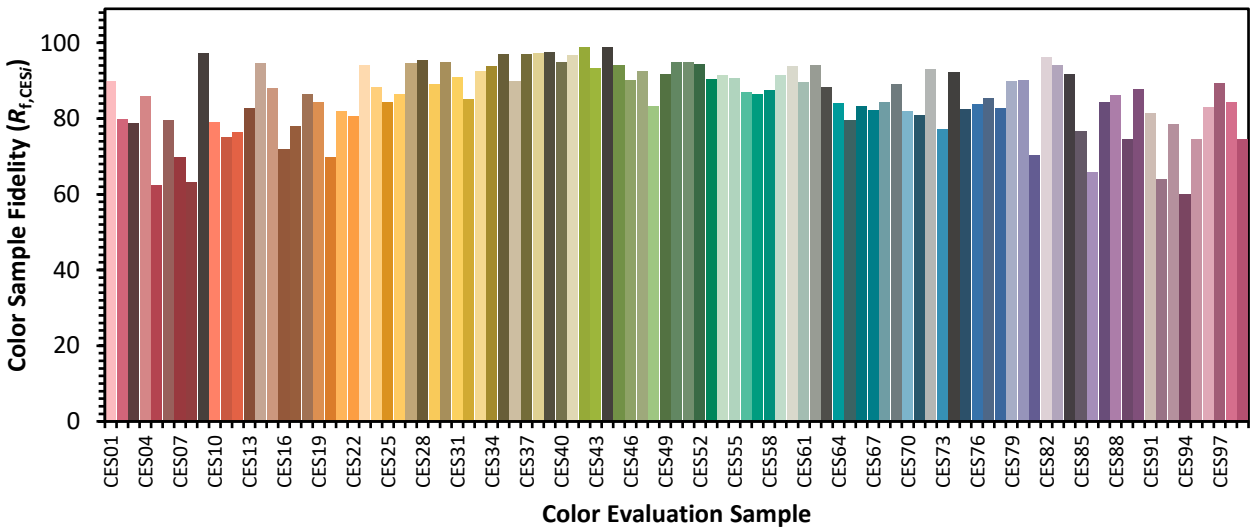


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Individual Sample Fidelity Index ($R_{f,i}$)

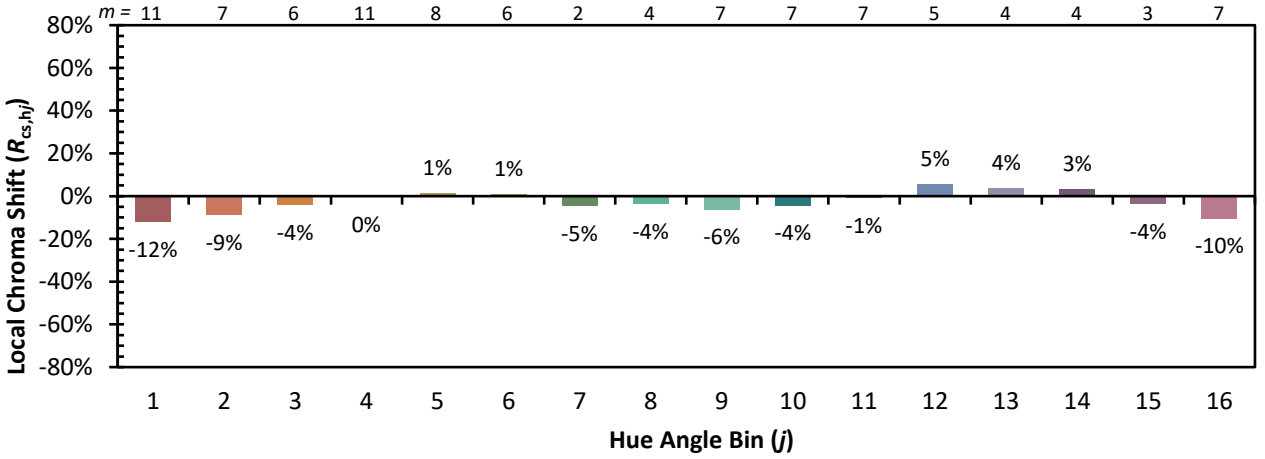
CES01 = 86	CES26 = 86	CES51 = 95	CES76 = 84
CES02 = 63	CES27 = 95	CES52 = 94	CES77 = 86
CES03 = 31	CES28 = 95	CES53 = 90	CES78 = 83
CES04 = 70	CES29 = 89	CES54 = 91	CES79 = 90
CES05 = 50	CES30 = 95	CES55 = 91	CES80 = 90
CES06 = 51	CES31 = 91	CES56 = 87	CES81 = 70
CES07 = 42	CES32 = 85	CES57 = 86	CES82 = 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	

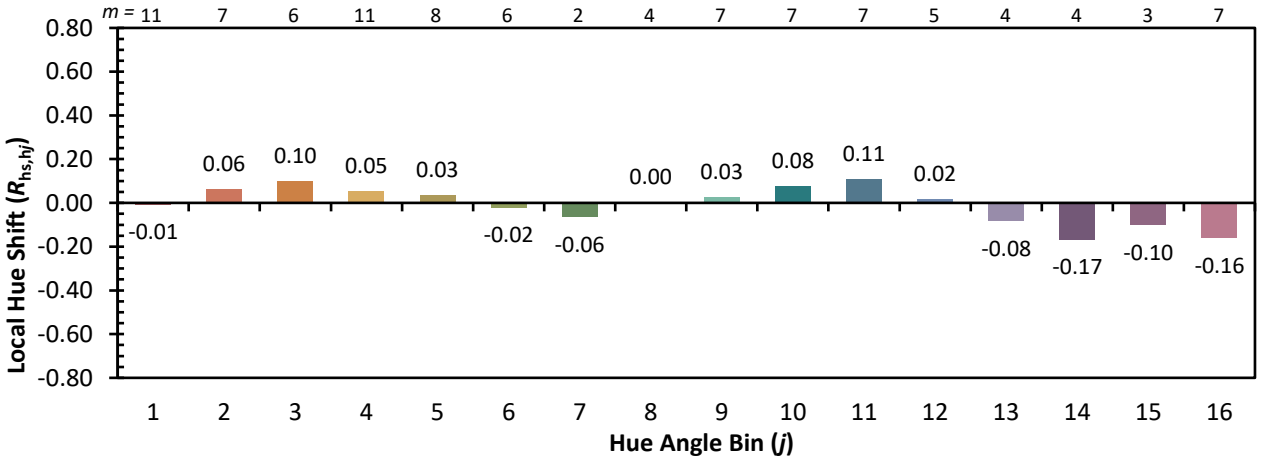


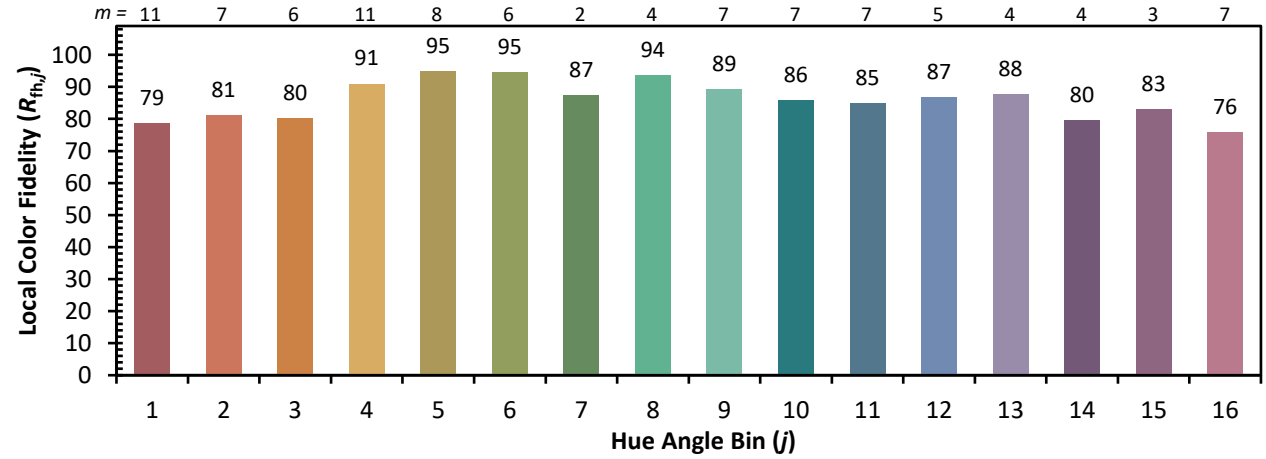
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Color Rendition by Hue-Angle Bin



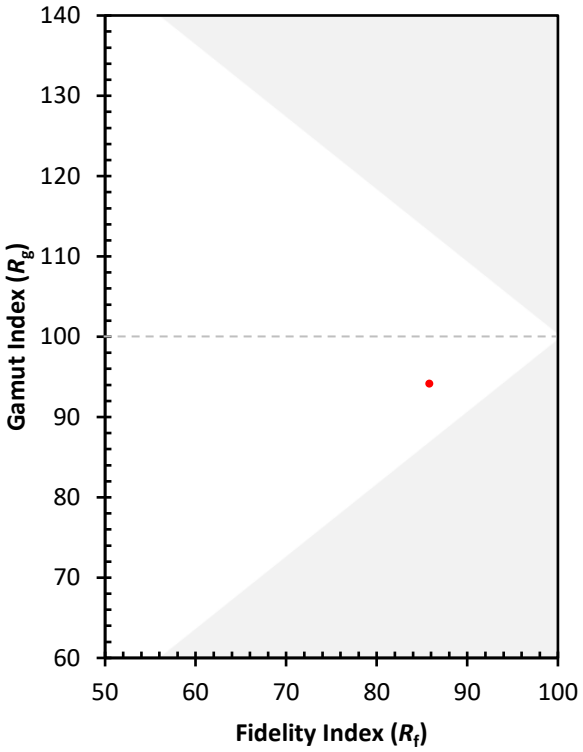


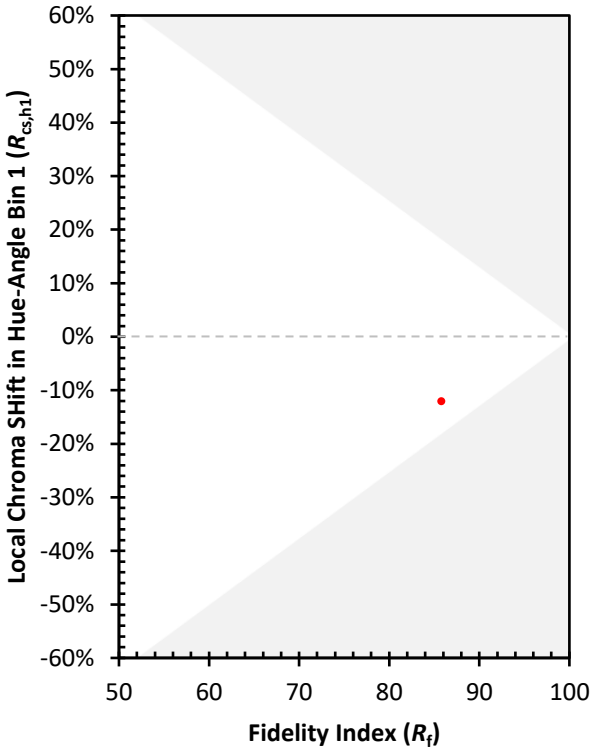


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Measure Comparisons





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