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: P821145

Luminaire Tested: **TT-D3-830-24VDC-CQ-UPL**

Issue Date: 7/23/2020

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:	P821145
	REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (G2-2002-677-2) AND
Test Lab:	INNOVATION CENTER
Issue Date:	7/23/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	TT-D3-830-24VDC-CQ-UPL
Description:	TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
	3000K, 80 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6430.7 lumens
Efficiency:	N/A
Efficacy:	139.8 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification:	Type V - Short
BUG Rating:	B2 - U4 - G1

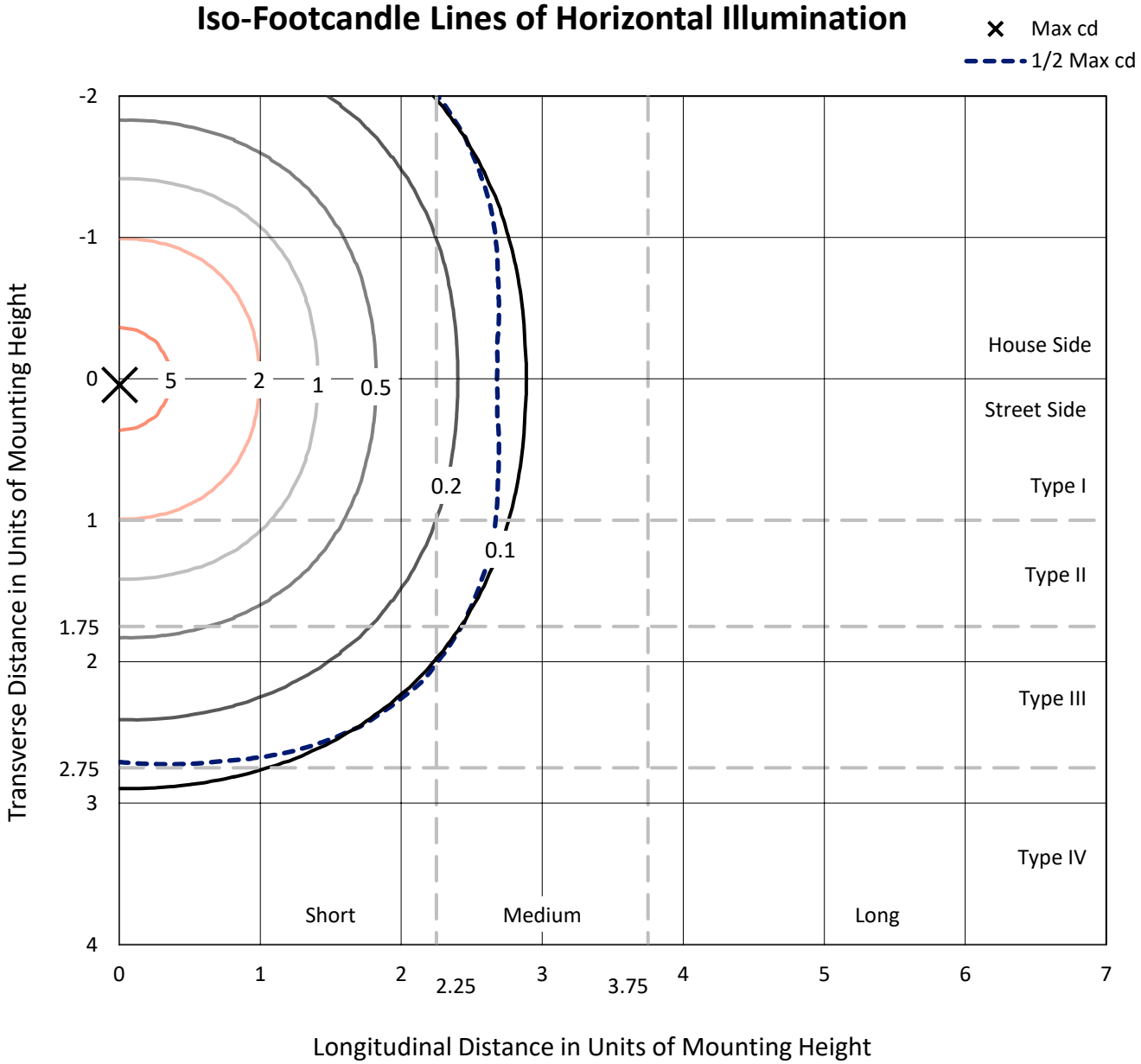
Input Watts (W):	46
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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Scaled Data Report

REPORT NUMBER: P821145
CATALOG NUMBER: TT-D3-830-24VDC-CQ-UPL

Iso-Footcandle Lines of Horizontal Illumination



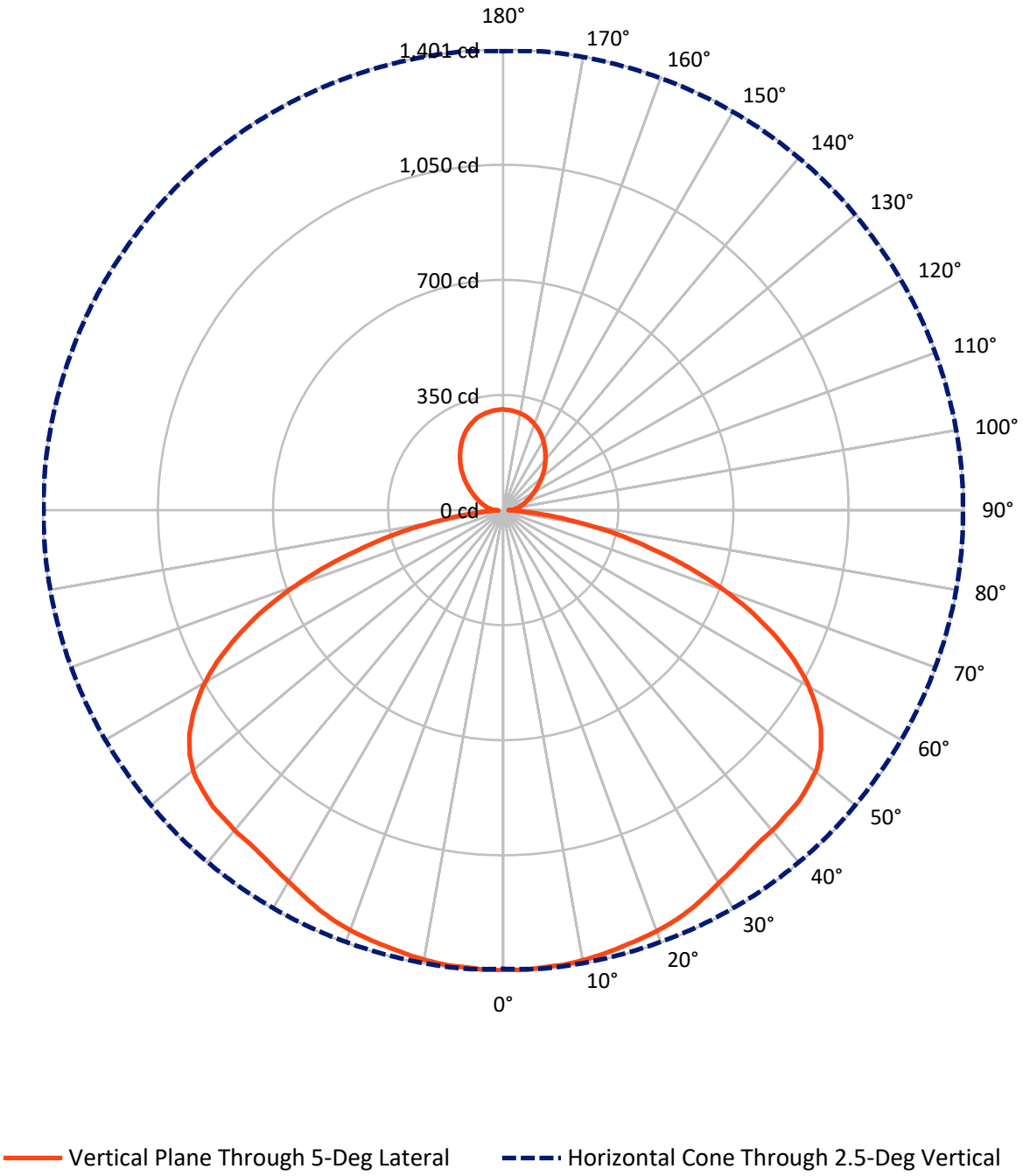
Based on 15 foot mounting height. Maximum calculated value = 6.2 fc
Type V - Short - N/A

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REPORT NUMBER: P821145
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Luminous Intensity Polar Plot



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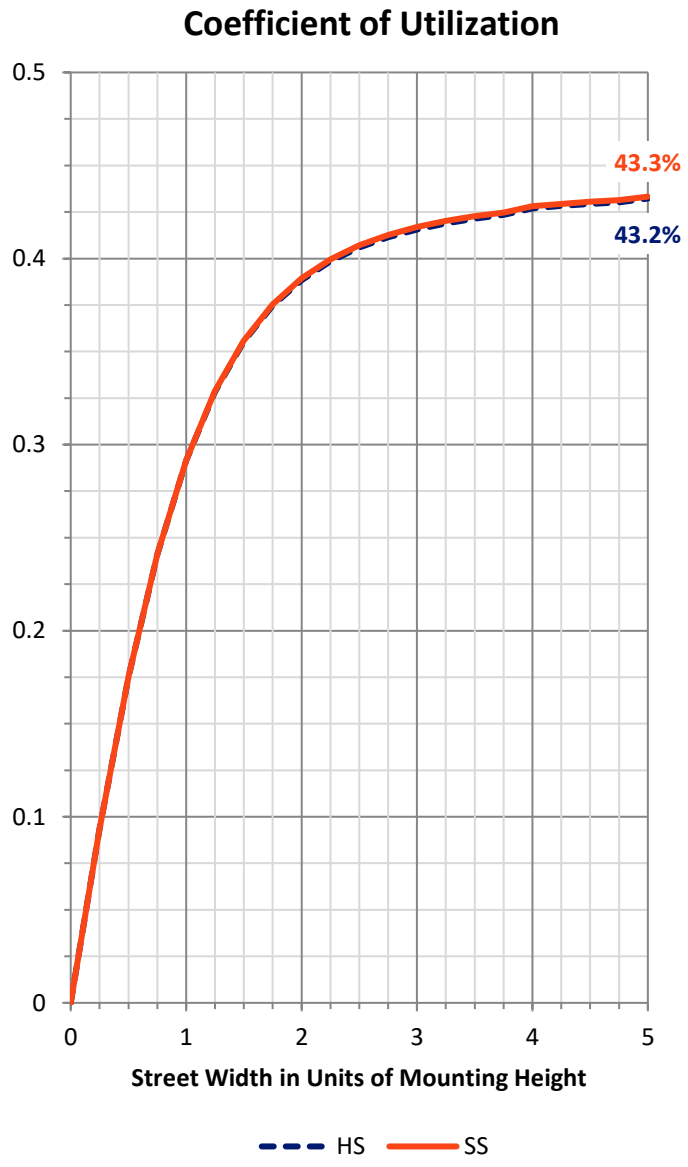
REPORT NUMBER: P821145
CATALOG NUMBER: TT-D3-830-24VDC-CQ-UPL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2799.5	415.9	3215.4
	% Fixture	43.5	6.5	50.0
Street Side	Lumens	2799.5	415.9	3215.4
	% Fixture	43.5	6.5	50.0
Total	Lumens	5599.0	831.7	6430.7
	% Fixture	87.1	12.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.1	2.1
10°-20°	389.9	6.1
20°-30°	620.0	9.6
30°-40°	815.6	12.7
40°-50°	998.3	15.5
50°-60°	1081.3	16.8
60°-70°	930.2	14.5
70°-80°	523.0	8.1
80°-90°	107.7	1.7
90°-100°	42.6	0.7
100°-110°	66.0	1.0
110°-120°	91.9	1.4
120°-130°	119.0	1.9
130°-140°	138.7	2.2
140°-150°	140.5	2.2
150°-160°	121.9	1.9
160°-170°	82.2	1.3
170°-180°	28.9	0.4
0°-90°	5599.0	87.1
0°-180°	6430.7	100.0



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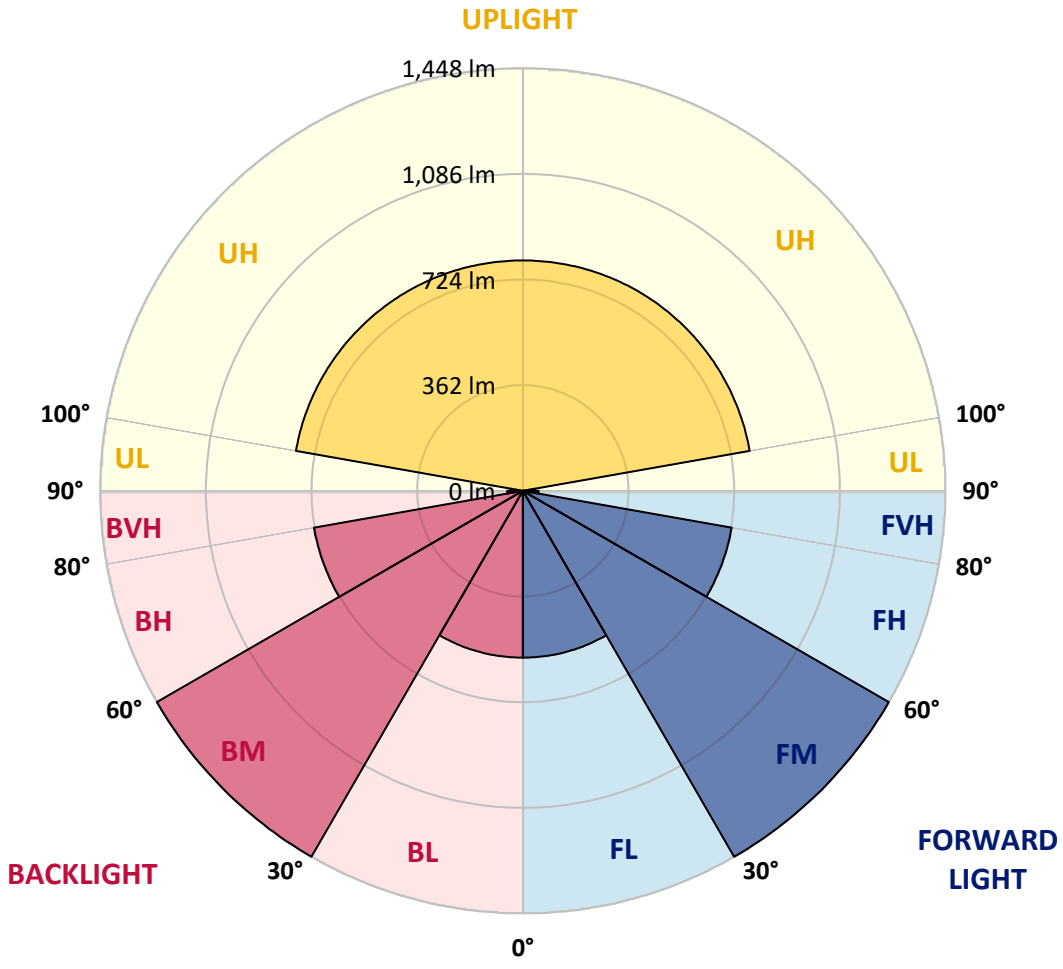
Scaled Data Report

REPORT NUMBER: P821145
CATALOG NUMBER: TT-D3-830-24VDC-CQ-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	571.5	8.9			
FM	(30°-60°)	1447.6	22.5			
FH	(60°-80°)	726.6	11.3			G1/1800
FVH	(80°-90°)	53.8	0.8			G1/100
BL	(0°-30°)	571.5	8.9	B2/1000		
BM	(30°-60°)	1447.6	22.5	B2/2500		
BH	(60°-80°)	726.6	11.3	B2/1000		G1/1800
BVH	(80°-90°)	53.8	0.8			G1/100
UL	(90°-100°)	42.6	0.7		U2/50	
UH	(100°-180°)	789.1	12.3		U4/1000	

BUG Rating: B2-U4-G1
Type V Short



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REPORT NUMBER: P821145
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1399.7	*1399.7*	1399.7	1399.7	1399.7	1399.7	1399.7	1399.7	1399.7	1399.7	1399.7
2.5°	*1396.1*	*1400.6*	*1398.8*	*1398.8*	*1398.8*	*1398.8*	*1397.0*	*1398.8*	*1398.8*	*1399.7*	*1398.8*
5°	1397.0	*1396.1*	1396.1	1397.0	1397.0	1397.9	1396.1	1397.0	1397.9	1397.9	1398.8
7.5°	1394.4	*1395.3*	1393.5	1395.3	1393.5	1394.4	1394.4	1395.3	1394.4	1395.3	1397.0
10°	1389.0	*1389.9*	1389.0	1389.0	1389.0	1390.8	1387.2	1389.9	1389.0	1389.9	1389.0
12.5°	1379.2	*1383.7*	1381.9	1383.7	1383.7	1383.7	1381.0	1382.8	1383.7	1383.7	1383.7
15°	1374.8	*1375.7*	1373.0	1376.6	1377.4	1378.3	1374.8	1376.6	1376.6	1377.4	1378.3
17.5°	1365.0	*1369.4*	1368.5	1371.2	1370.3	1373.0	1372.1	1371.2	1370.3	1372.1	1370.3
20°	1357.9	*1362.3*	1361.4	1364.1	1365.0	1367.7	1365.0	1365.0	1362.3	1363.2	1365.9
22.5°	1350.7	*1352.5*	1352.5	1355.2	1355.2	1357.9	1355.2	1354.3	1354.3	1353.4	1356.1
25°	1339.2	*1340.0*	1339.2	1341.8	1343.6	1345.4	1344.5	1342.7	1341.8	1341.8	1340.9
27.5°	1320.5	*1324.0*	1325.8	1329.4	1330.3	1332.9	1329.4	1329.4	1327.6	1325.8	1326.7
30°	1306.2	*1308.0*	1308.0	1316.0	1316.0	1320.5	1316.0	1315.1	1314.2	1313.3	1311.6
32.5°	1292.9	*1295.5*	1298.2	1304.4	1308.9	1310.7	1308.0	1306.2	1301.8	1299.1	1298.2
35°	1282.2	*1283.1*	1288.4	1297.3	1302.7	1307.1	1303.5	1299.1	1292.9	1288.4	1292.0
37.5°	1274.2	*1275.0*	1283.1	1294.6	1304.4	1308.0	1302.7	1295.5	1285.7	1280.4	1278.6
40°	1267.0	*1272.4*	1281.3	1297.3	1308.0	1313.3	1308.9	1299.1	1284.8	1274.2	1273.3
42.5°	1263.5	*1266.1*	1279.5	1298.2	1313.3	1320.5	1314.2	1300.9	1283.1	1270.6	1269.7
45°	1254.6	*1262.6*	1275.0	1299.1	1316.0	1324.9	1316.0	1299.1	1277.7	1263.5	1260.8
47.5°	1247.4	*1250.1*	1269.7	1297.3	1317.8	1324.9	1316.0	1294.6	1267.9	1249.2	1247.4
50°	1230.5	*1236.8*	1256.4	1285.7	1309.8	1316.9	1306.2	1277.7	1247.4	1227.0	1223.4
52.5°	1204.7	*1210.1*	1233.2	1269.7	1292.9	1300.9	1284.8	1254.6	1219.0	1194.0	1194.0
55°	1164.6	*1172.7*	1196.7	1234.1	1263.5	1270.6	1251.9	1219.8	1179.8	1154.8	1154.0
57.5°	1116.6	*1121.9*	1147.7	1188.7	1217.2	1227.9	1209.2	1173.5	1133.5	1104.1	1101.4
60°	1054.2	*1061.4*	1089.0	1128.1	1157.5	1166.4	1150.4	1114.8	1073.8	1042.7	1042.7
62.5°	979.4	*987.5*	1015.1	1055.1	1085.4	1098.8	1076.5	1042.7	999.9	969.6	967.0
65°	892.2	*899.3*	924.2	966.1	997.2	1007.0	990.1	954.5	913.5	885.1	882.4
67.5°	794.2	*804.0*	829.0	864.6	891.3	903.8	893.1	861.0	818.3	788.9	786.2
70°	688.3	*695.4*	715.0	747.9	778.2	787.1	771.1	749.7	709.6	682.9	679.4
72.5°	575.2	*581.4*	597.5	628.6	650.0	661.6	652.7	625.1	593.0	570.7	574.3
75°	461.2	*460.3*	478.1	500.4	520.0	528.0	521.8	504.0	474.6	455.9	455.0
77.5°	347.3	*356.2*	362.4	381.1	397.1	403.4	394.4	380.2	357.9	342.8	345.5
80°	244.0	*238.6*	250.2	261.8	272.5	278.7	273.4	265.3	250.2	238.6	236.8
82.5°	149.6	*145.1*	150.5	161.2	168.3	170.1	171.0	161.2	154.9	146.0	147.8
85°	65.9	*66.8*	71.2	78.4	79.2	80.1	80.1	78.4	71.2	70.3	68.6
87.5°	16.0	*16.0*	16.9	19.6	19.6	20.5	20.5	17.8	16.9	15.1	16.0
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: P821145
CATALOG NUMBER: TT-D3-830-24VDC-CQ-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

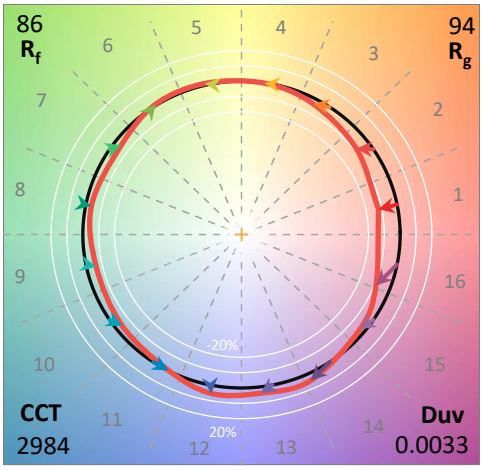
Test Information

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

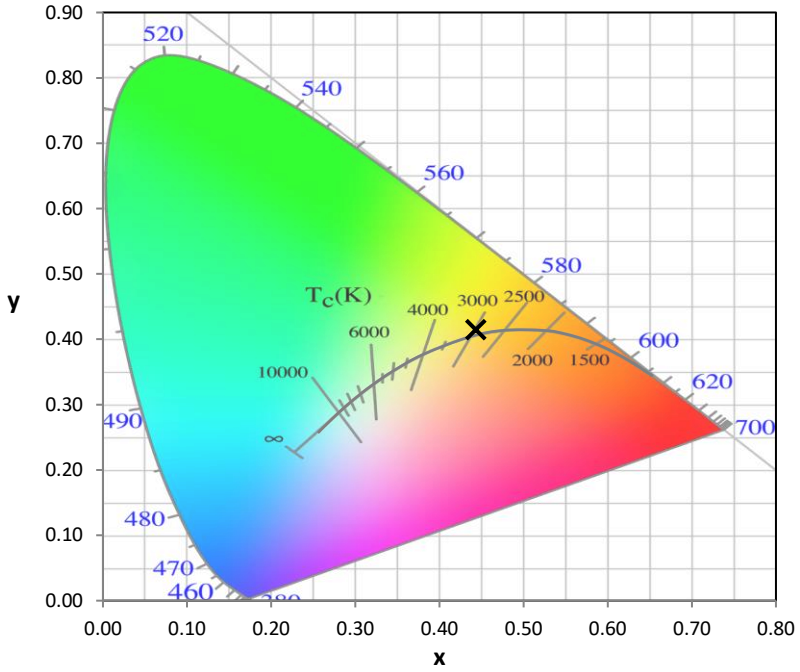
Stabilization Time:	29M
Operation Time:	1H 29M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-176-7

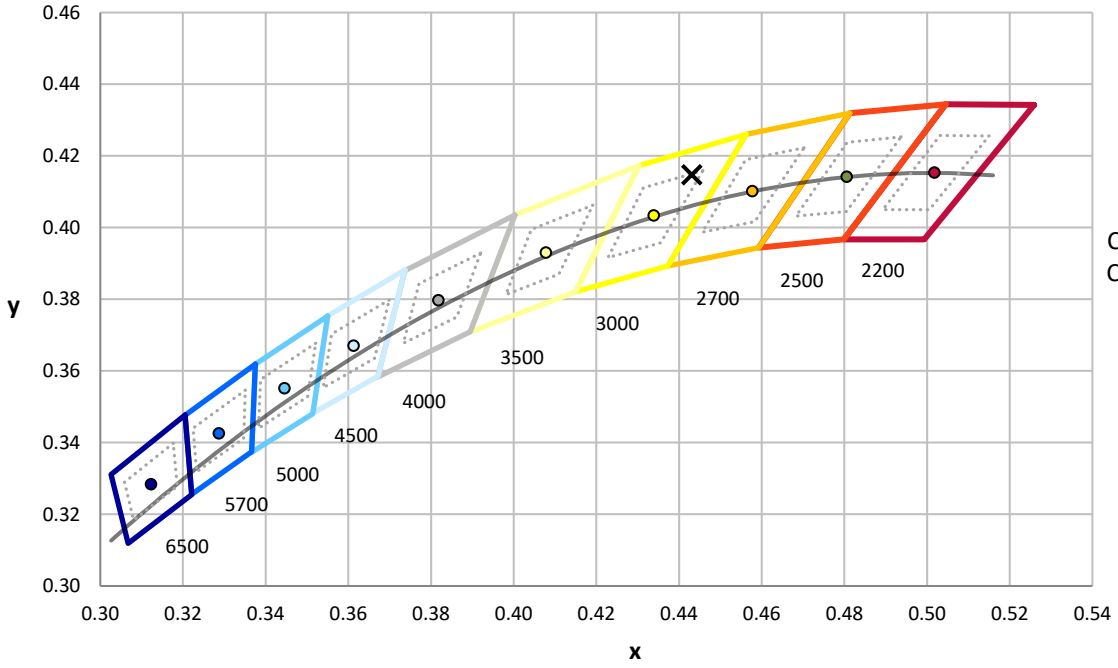
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

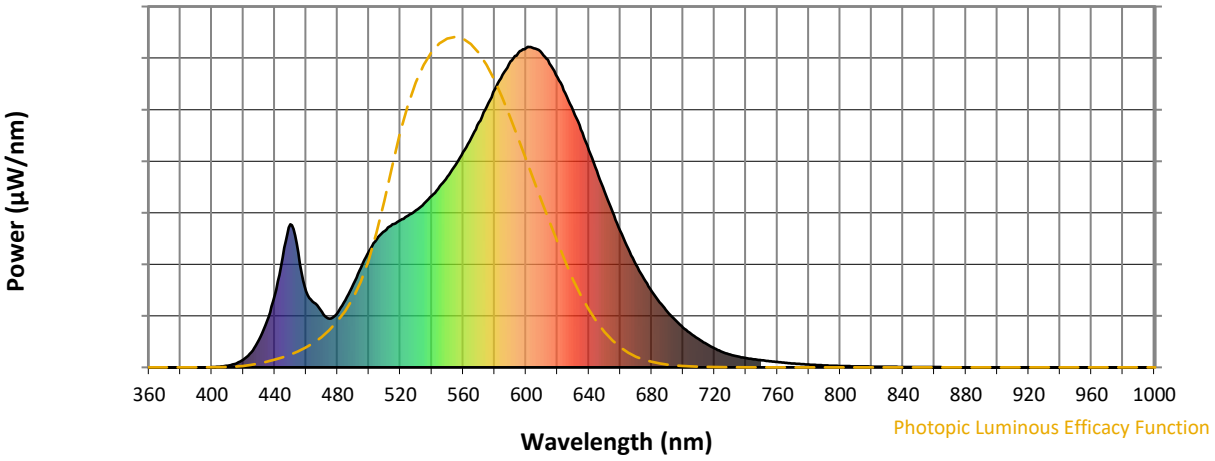


CCT = 2984K
CIE x = 0.4431
CIE y = 0.4147
Duv = 0.0033

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-176-7

Photopic Flux vs. Wavelength

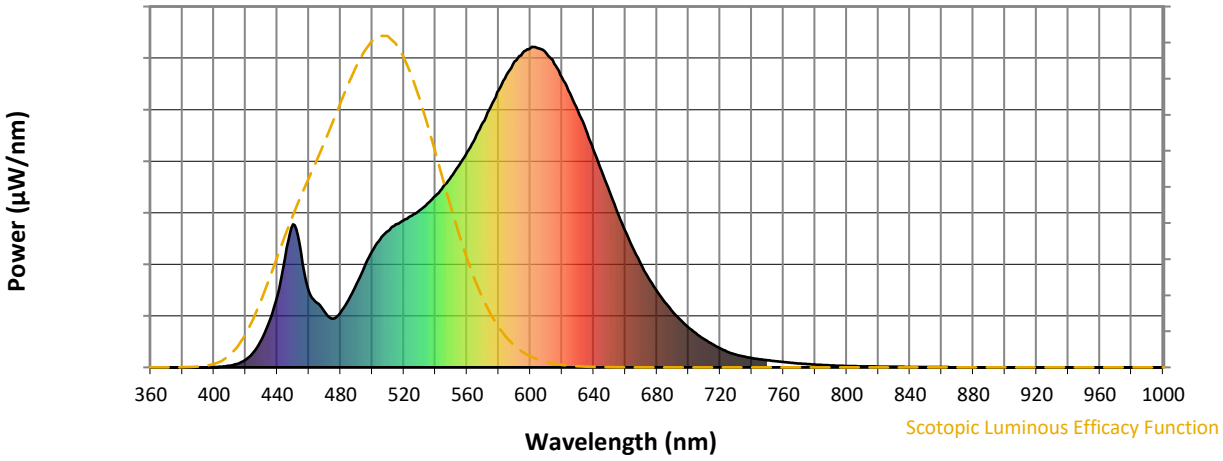


Photopic Lumens: NR

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

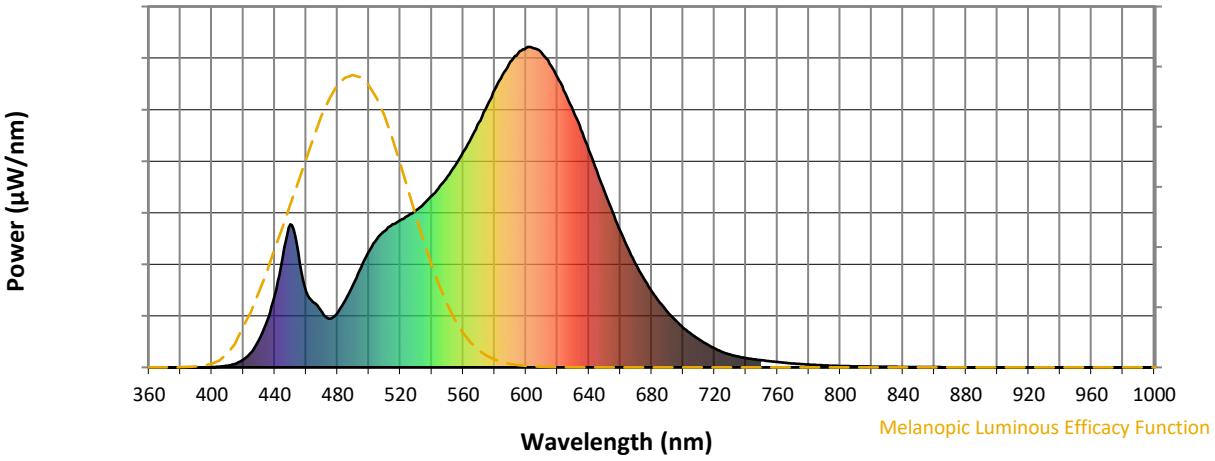


Scotopic Lumens: NR **S/P: 1.32**

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
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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			

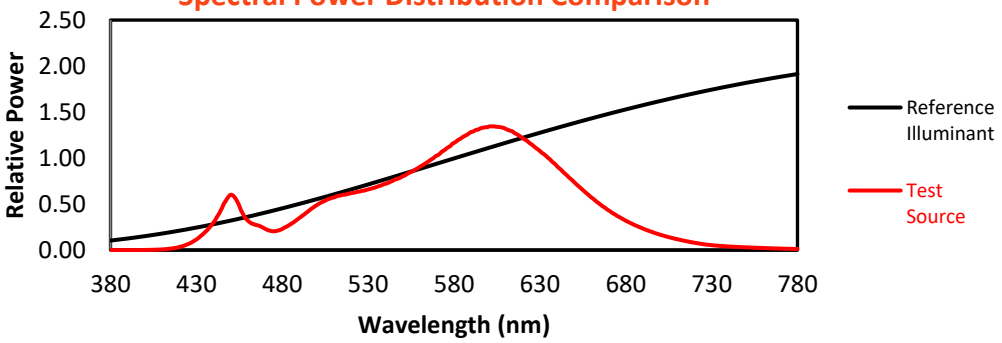
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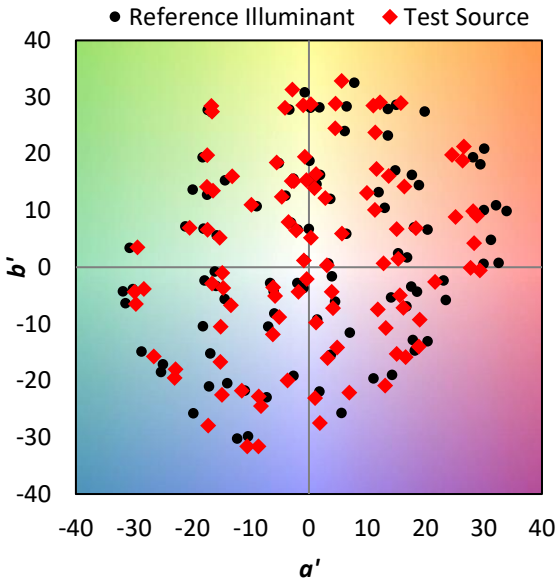
Summary

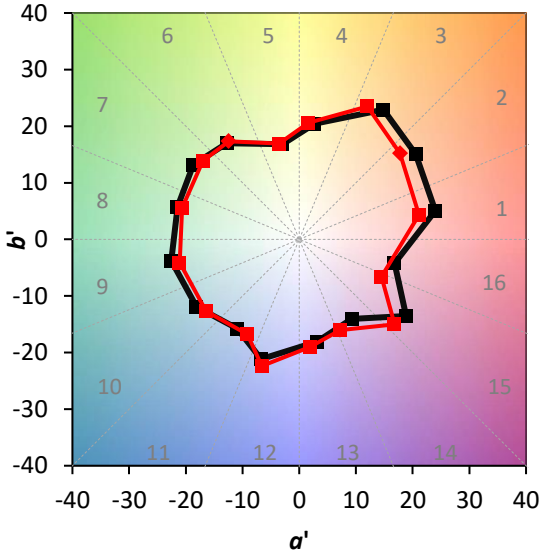
R_f = 85.8
R_g = 94.1
CIE R_a = 81.8
R_9 = -1.1

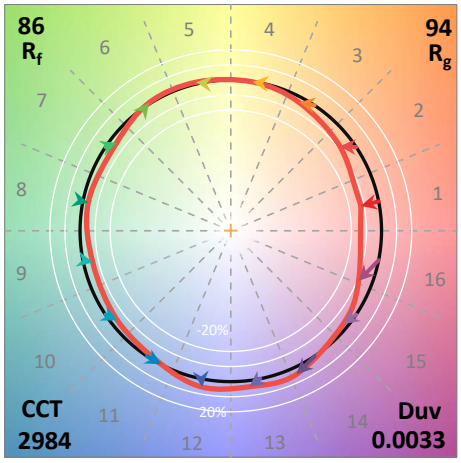
Spectral Power Distribution Comparison

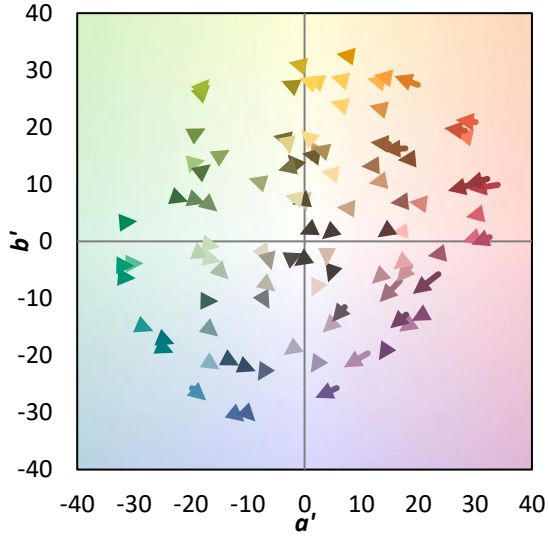


Color Vector Graphics







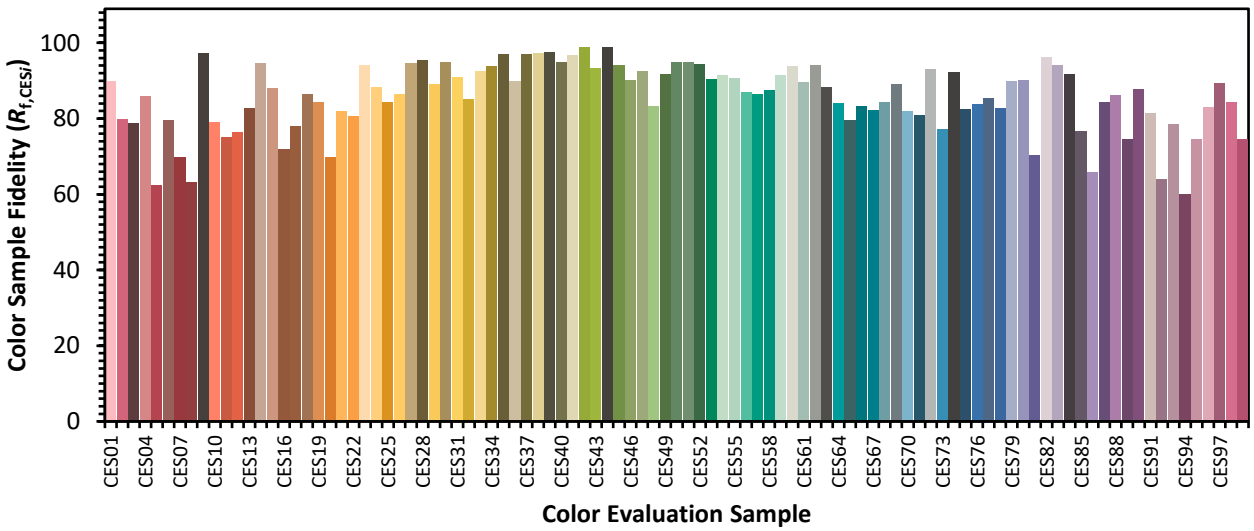


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Individual Sample Fidelity Index ($R_{f,i}$)

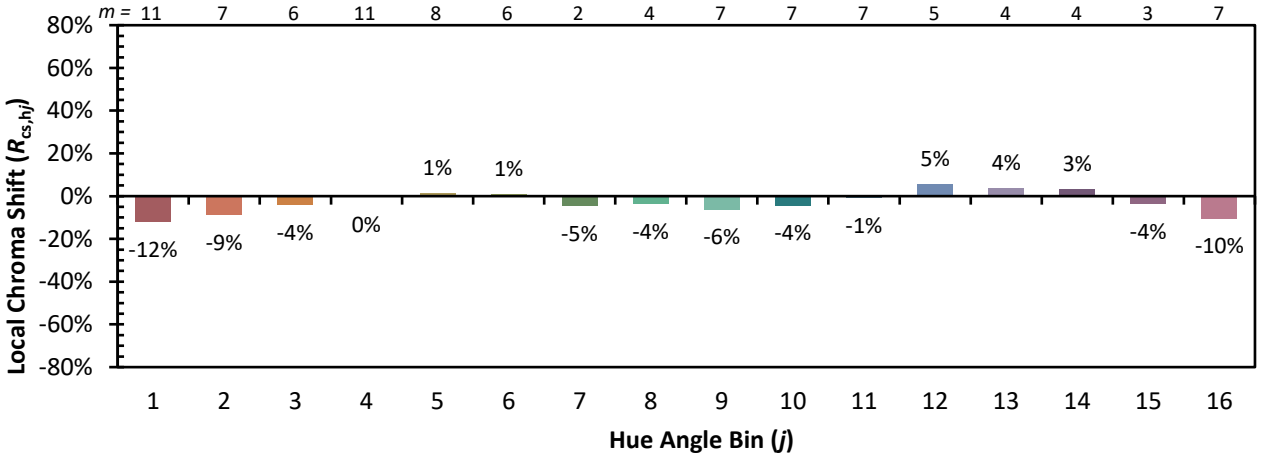
CES01 = 86	CES26 = 86	CES51 = 95	CES76 = 84
CES02 = 63	CES27 = 95	CES52 = 94	CES77 = 86
CES03 = 31	CES28 = 95	CES53 = 90	CES78 = 83
CES04 = 70	CES29 = 89	CES54 = 91	CES79 = 90
CES05 = 50	CES30 = 95	CES55 = 91	CES80 = 90
CES06 = 51	CES31 = 91	CES56 = 87	CES81 = 70
CES07 = 42	CES32 = 85	CES57 = 86	CES82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

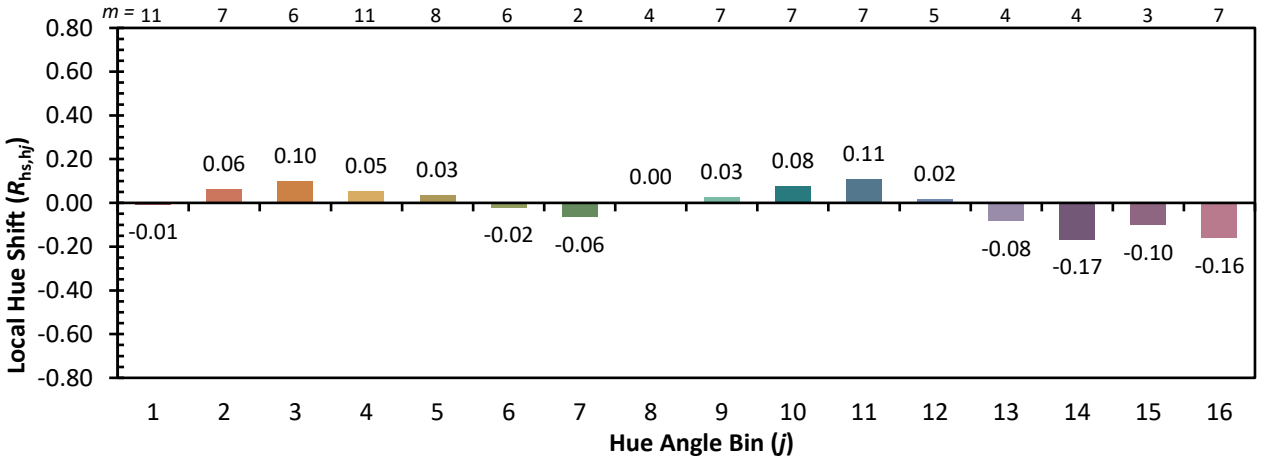


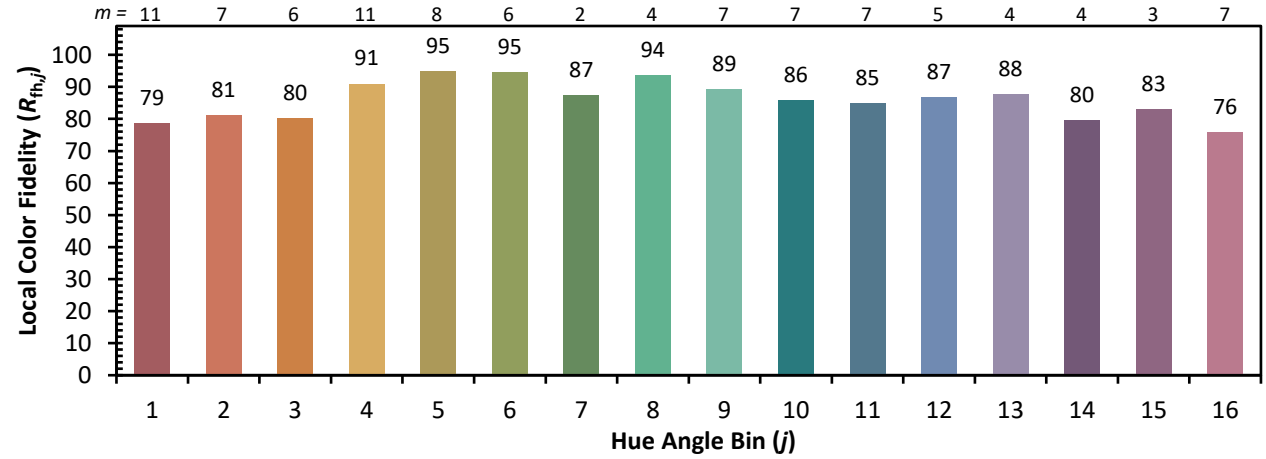
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Color Rendition by Hue-Angle Bin



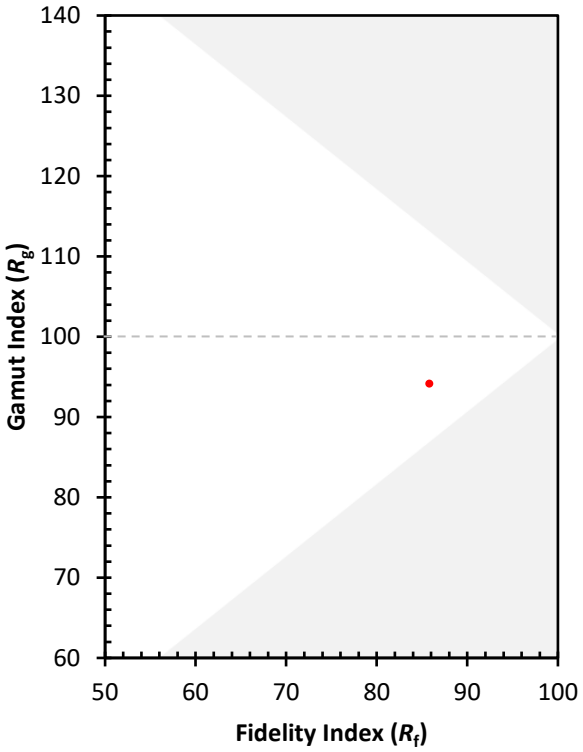


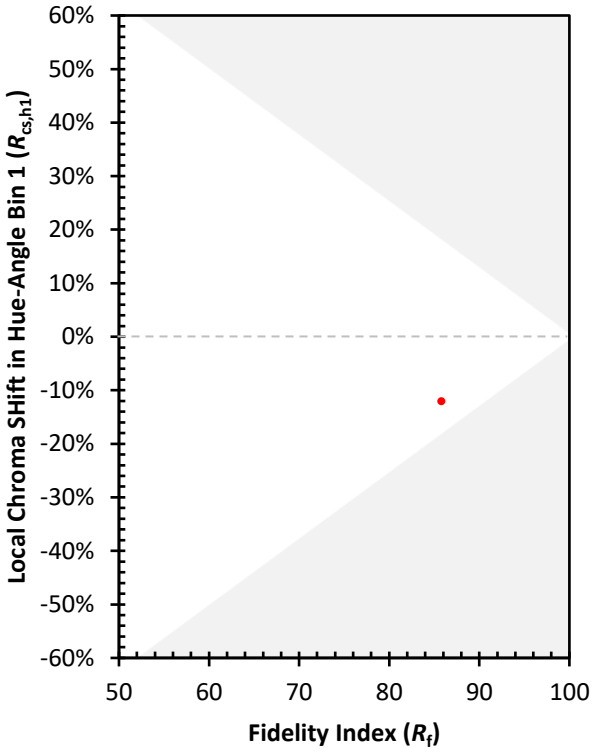


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Measure Comparisons





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