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: P821542

Luminaire Tested: **TT-D2-740-12VDC-WQ-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:	P821542
	REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (G2-2002-677-1) AND
Test Lab:	INNOVATION CENTER
Issue Date:	7/23/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	TT-D2-740-12VDC-WQ-UPL
Description:	TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
	4000K, 70 CRI LEDS AND WIDE DISTRIBUTION
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6162.7 lumens
Efficiency:	N/A
Efficacy:	162.2 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification:	Type V - Short
BUG Rating:	B3 - U4 - G2

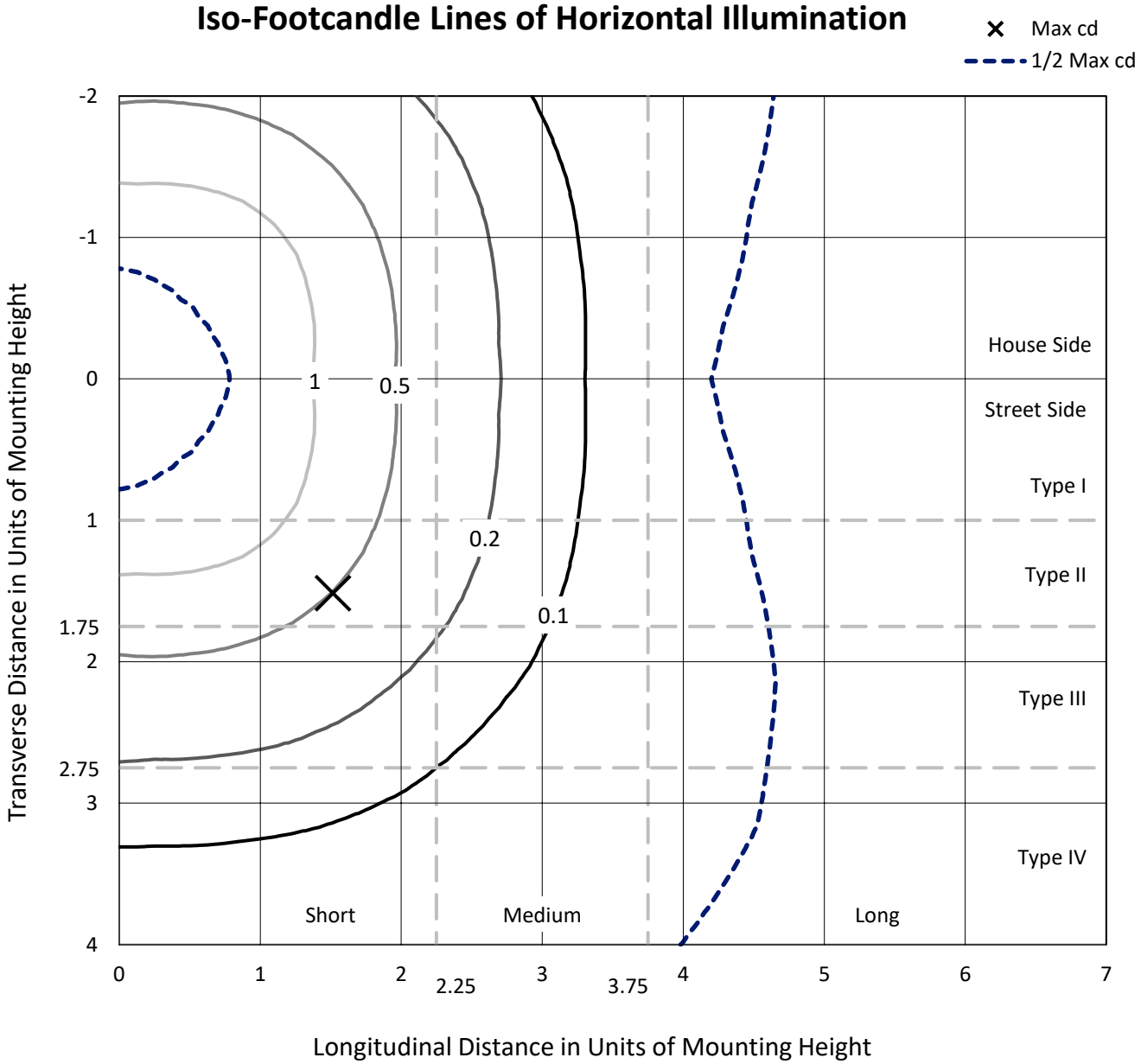
Input Watts (W):	38
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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REPORT NUMBER: P821542
CATALOG NUMBER: TT-D2-740-12VDC-WQ-UPL

Iso-Footcandle Lines of Horizontal Illumination



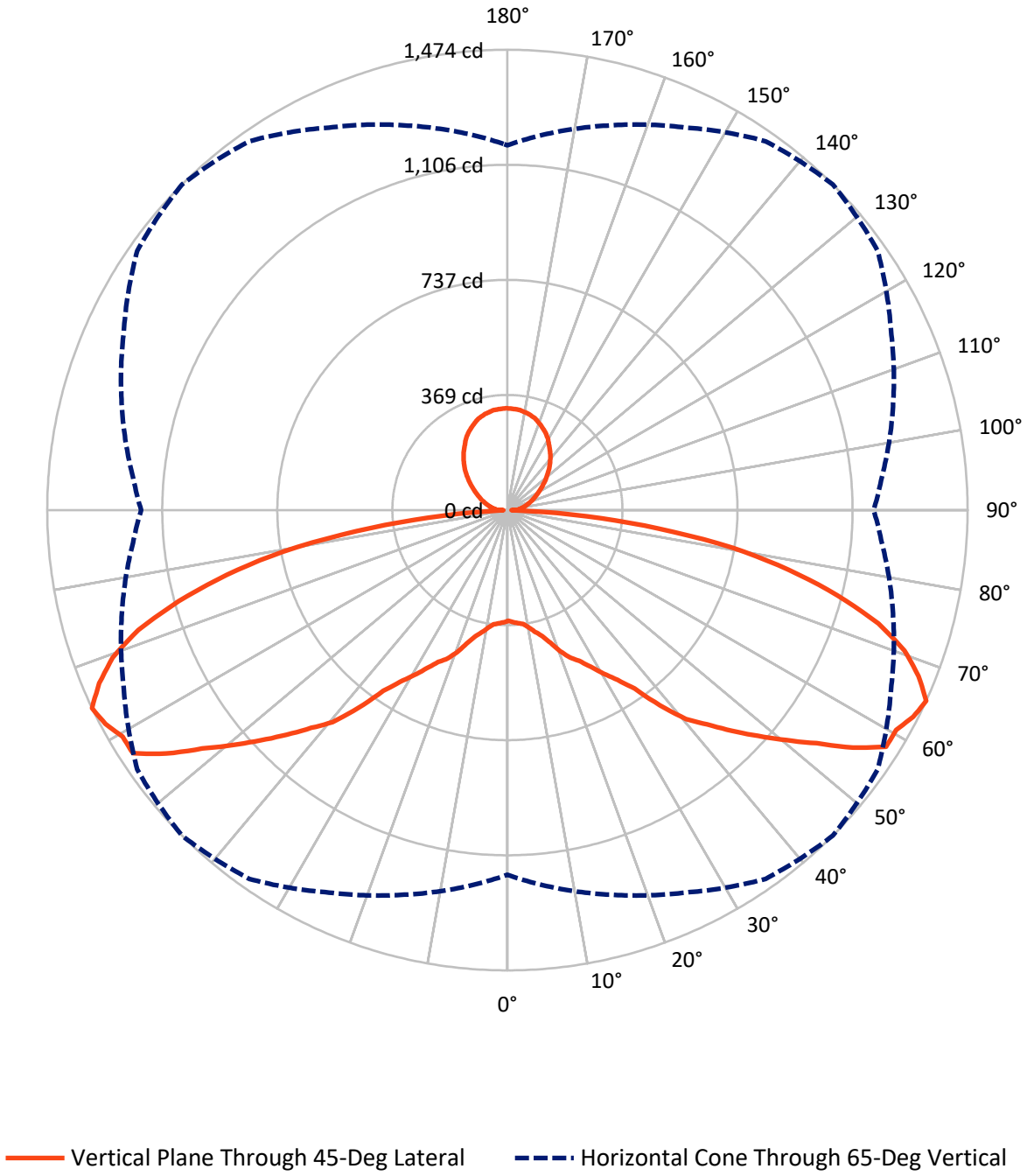
Based on 15 foot mounting height. Maximum calculated value = 1.8 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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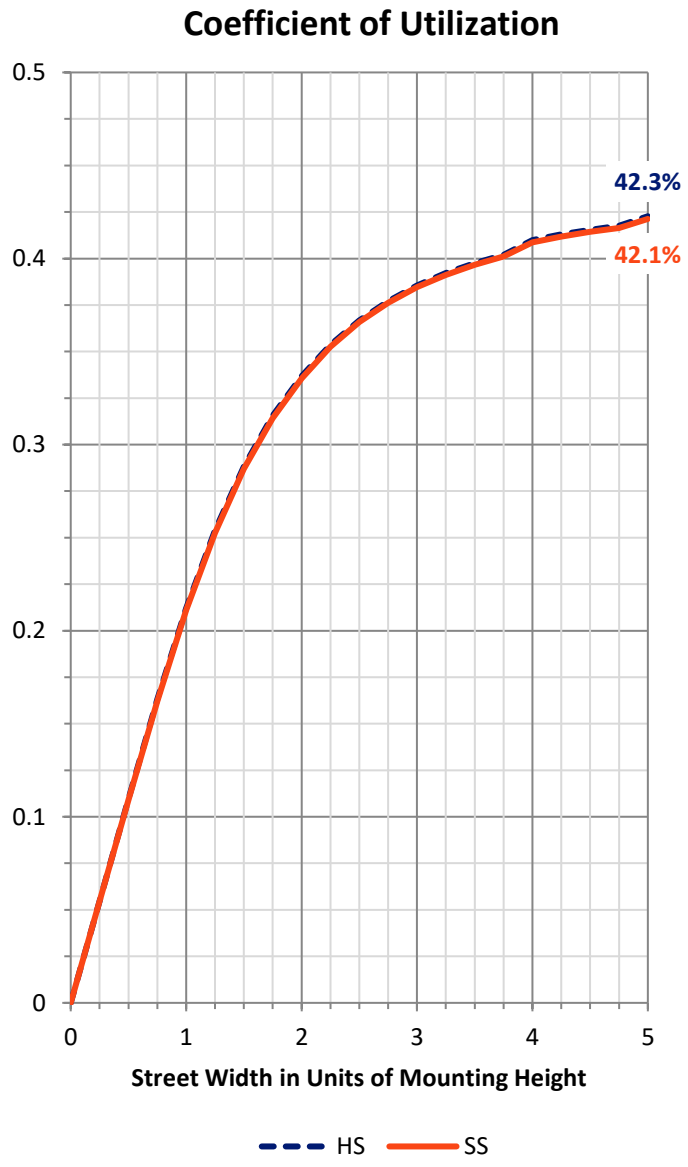
REPORT NUMBER: P821542
CATALOG NUMBER: TT-D2-740-12VDC-WQ-UPL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2638.6	442.7	3081.4
	% Fixture	42.8	7.2	50.0
Street Side	Lumens	2638.6	442.7	3081.4
	% Fixture	42.8	7.2	50.0
Total	Lumens	5277.3	885.5	6162.7
	% Fixture	85.6	14.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.4	0.6
10°-20°	121.7	2.0
20°-30°	249.9	4.1
30°-40°	444.0	7.2
40°-50°	748.5	12.1
50°-60°	1104.1	17.9
60°-70°	1295.8	21.0
70°-80°	1009.6	16.4
80°-90°	268.2	4.4
90°-100°	45.4	0.7
100°-110°	70.3	1.1
110°-120°	97.7	1.6
120°-130°	126.6	2.1
130°-140°	147.6	2.4
140°-150°	149.5	2.4
150°-160°	129.8	2.1
160°-170°	87.7	1.4
170°-180°	30.8	0.5
0°-90°	5277.3	85.6
0°-180°	6162.7	100.0



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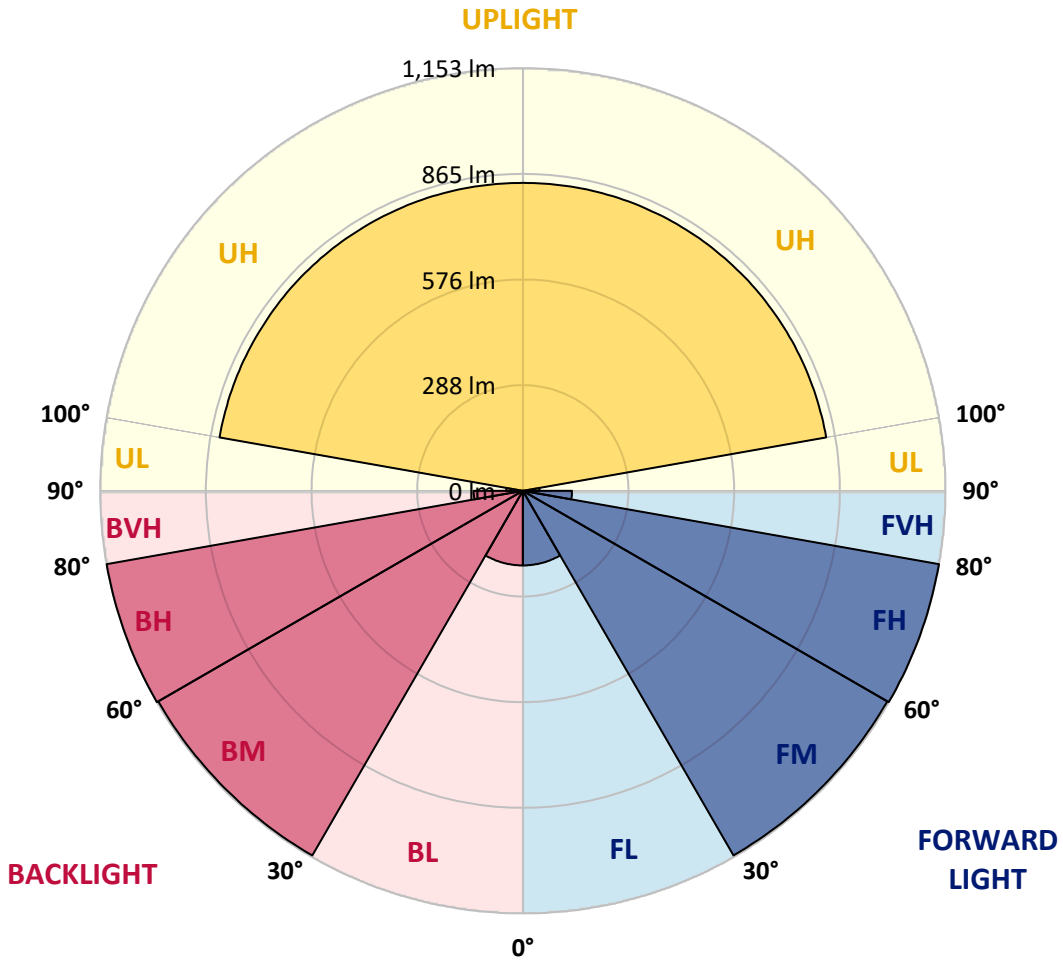
Scaled Data Report

REPORT NUMBER: P821542
CATALOG NUMBER: TT-D2-740-12VDC-WQ-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	203.5	3.3			
FM	(30°-60°)	1148.3	18.6			
FH	(60°-80°)	1152.7	18.7			G1/1800
FVH	(80°-90°)	134.1	2.2			G2/225
BL	(0°-30°)	203.5	3.3	B1/500		
BM	(30°-60°)	1148.3	18.6	B2/2500		
BH	(60°-80°)	1152.7	18.7	B3/2500		G1/1800
BVH	(80°-90°)	134.1	2.2			G2/225
UL	(90°-100°)	45.4	0.7		U2/50	
UH	(100°-180°)	840.1	13.6		U4/1000	

BUG Rating: B3-U4-G2
Type V Short



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REPORT NUMBER: P821542
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9	354.9
2.5°	360.7	360.7	360.7	359.9	359.9	359.9	359.9	360.7	360.7	360.7	360.7
5°	369.0	369.0	367.3	365.7	364.0	364.0	364.8	365.7	366.5	368.2	368.2
7.5°	374.0	374.0	373.1	371.5	369.0	369.0	369.8	371.5	372.3	372.3	371.5
10°	380.6	381.4	383.9	384.7	383.1	383.1	383.9	384.7	383.1	380.6	380.6
12.5°	396.3	397.2	400.5	403.0	403.0	401.3	402.2	403.8	399.7	395.5	396.3
15°	418.7	418.7	419.6	422.1	420.4	418.7	420.4	421.2	418.7	417.9	419.6
17.5°	448.6	448.6	443.6	447.8	448.6	447.8	449.4	445.3	442.8	446.1	447.8
20°	480.9	477.6	475.1	478.4	485.1	482.6	485.9	476.8	474.3	475.9	476.8
22.5°	501.7	504.1	505.8	507.5	516.6	513.3	516.6	506.6	505.0	501.7	499.2
25°	526.5	529.0	539.0	534.0	539.8	534.8	539.0	533.2	536.5	526.5	526.5
27.5°	554.7	559.7	565.5	563.0	570.5	568.0	570.5	562.2	563.0	558.9	557.2
30°	592.9	592.9	591.2	596.2	609.4	607.8	608.6	597.8	590.4	591.2	594.5
32.5°	631.0	626.0	628.5	643.4	651.7	648.4	650.1	645.1	628.5	625.2	627.7
35°	666.7	674.1	679.9	692.4	704.0	702.3	701.5	693.2	682.4	669.1	665.0
37.5°	722.2	730.5	746.3	768.7	789.4	793.5	782.7	772.0	747.1	728.0	718.1
40°	795.2	796.0	814.3	857.4	876.4	879.8	874.0	855.7	817.6	796.0	795.2
42.5°	859.0	853.2	883.1	919.6	937.0	938.6	934.5	919.6	883.1	852.4	858.2
45°	908.8	908.8	944.4	973.5	1001.7	1008.3	1000.8	969.3	945.3	909.6	907.1
47.5°	954.4	966.8	996.7	1032.3	1072.1	1081.3	1072.1	1034.8	994.2	967.7	953.6
50°	1009.1	1024.0	1045.6	1101.2	1145.9	1158.4	1145.1	1104.5	1045.6	1023.2	1014.9
52.5°	1073.0	1085.4	1119.4	1189.0	1222.2	1240.5	1229.7	1190.7	1121.1	1087.1	1080.4
55°	1149.2	1137.6	1190.7	1257.9	1319.2	1343.3	1321.7	1259.5	1199.0	1137.6	1149.2
57.5°	1188.2	1174.9	1249.6	1313.4	1398.8	1430.3	1403.8	1318.4	1249.6	1179.1	1187.4
60°	1191.5	1197.3	1253.7	1358.2	1417.1	1430.3	1422.0	1365.7	1256.2	1202.3	1186.6
62.5°	1181.6	1217.2	1265.3	1373.1	1426.2	1458.5	1430.3	1374.8	1270.3	1223.0	1182.4
65°	1168.3	1204.0	1275.3	1351.6	1441.9	1474.3	1447.7	1355.7	1278.6	1204.0	1173.3
67.5°	1145.1	1132.7	1220.6	1322.5	1401.3	1420.4	1403.8	1324.2	1219.7	1131.0	1147.6
70°	1071.3	1060.5	1136.0	1247.9	1323.4	1349.9	1330.0	1249.6	1137.6	1063.0	1073.0
72.5°	961.8	965.2	1038.1	1145.1	1226.4	1242.9	1232.2	1144.3	1042.3	969.3	956.0
75°	834.2	842.4	912.1	1009.1	1082.9	1092.9	1082.1	1013.3	911.3	847.4	830.0
77.5°	685.7	698.2	754.6	851.6	900.5	922.9	905.5	854.1	758.7	701.5	684.1
80°	531.5	535.7	575.5	653.4	718.1	733.0	716.4	655.9	580.4	537.3	524.9
82.5°	348.3	354.9	390.5	450.2	492.5	488.4	492.5	445.3	394.7	353.2	332.5
85°	155.1	168.3	192.4	220.6	247.9	255.4	247.9	223.9	192.4	165.0	161.7
87.5°	10.8	12.4	14.9	15.8	17.4	13.3	13.3	13.3	11.6	13.3	10.8
90°	32.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
92.5°	37.0	37.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
95°	42.0	42.0	42.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
97.5°	48.0	48.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
100°	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
102.5°	60.0	59.0	60.0	60.0	59.0	59.0	59.0	60.0	60.0	60.0	59.0
105°	66.0	66.0	66.0	66.0	66.0	66.0	66.0	67.0	66.0	66.0	66.0
107.5°	73.0	73.0	73.0	74.0	74.0	74.0	74.0	74.0	73.0	74.0	73.0
110°	80.0	80.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0

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REPORT NUMBER: P821542
CATALOG NUMBER: TT-D2-740-12VDC-WQ-UPL

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	89.0	89.0	89.0	89.0	89.0	*90.0*	90.0	90.0	90.0	90.0	89.0
115°	97.0	97.0	98.0	98.0	98.0	*98.0*	99.0	99.0	98.0	98.0	98.0
117.5°	107.0	107.0	107.0	107.0	107.0	*108.0*	108.0	108.0	108.0	108.0	107.0
120°	117.0	117.0	117.0	118.0	118.0	*118.0*	119.0	119.0	118.0	118.0	118.0
122.5°	129.0	128.0	129.0	129.0	129.0	*129.0*	130.0	130.0	130.0	130.0	129.0
125°	140.0	140.0	141.0	141.0	141.0	*141.0*	142.0	142.0	142.0	142.0	141.0
127.5°	153.0	153.0	153.0	153.0	153.0	*154.0*	154.0	154.0	154.0	154.0	154.0
130°	165.0	165.0	166.0	166.0	166.0	*166.0*	167.0	167.0	167.0	167.0	166.0
132.5°	179.0	178.0	179.0	178.0	178.0	*179.0*	179.0	180.0	179.0	180.0	179.0
135°	191.0	191.0	191.0	191.0	191.0	*192.0*	192.0	192.0	192.0	192.0	192.0
137.5°	204.0	203.0	204.0	203.0	203.0	*204.0*	204.0	204.0	204.0	204.0	204.0
140°	216.0	215.0	216.0	215.0	216.0	*216.0*	216.0	216.0	216.0	216.0	216.0
142.5°	228.0	227.0	228.0	227.0	227.0	*228.0*	228.0	228.0	228.0	228.0	228.0
145°	239.0	239.0	239.0	238.0	239.0	*239.0*	239.0	239.0	239.0	239.0	239.0
147.5°	250.0	249.0	250.0	249.0	249.0	*250.0*	250.0	250.0	250.0	250.0	250.0
150°	263.0	262.0	263.0	262.0	263.0	*263.0*	263.0	263.0	263.0	263.0	263.0
152.5°	273.0	273.0	273.0	273.0	273.0	*273.0*	273.0	273.0	273.0	273.0	273.0
155°	282.0	282.0	283.0	282.0	282.0	*282.0*	283.0	282.0	282.0	282.0	282.0
157.5°	290.0	290.0	290.0	290.0	290.0	*290.0*	291.0	291.0	290.0	291.0	290.0
160°	298.0	298.0	299.0	298.0	298.0	*298.0*	299.0	298.0	298.0	298.0	298.0
162.5°	306.0	305.0	306.0	305.0	306.0	*306.0*	306.0	306.0	306.0	306.0	306.0
165°	311.0	311.0	312.0	311.0	311.0	*311.0*	312.0	311.0	311.0	311.0	311.0
167.5°	316.0	315.0	316.0	316.0	316.0	*316.0*	316.0	316.0	316.0	316.0	316.0
170°	319.0	319.0	320.0	319.0	319.0	*319.0*	320.0	319.0	319.0	319.0	319.0
172.5°	323.0	323.0	323.0	323.0	323.0	*323.0*	323.0	323.0	323.0	323.0	323.0
175°	324.0	324.0	325.0	324.0	325.0	*324.0*	325.0	324.0	324.0	324.0	324.0
177.5°	325.0	325.0	326.0	325.0	325.0	*325.0*	325.0	325.0	325.0	325.0	325.0
180°	326.0	326.0	326.0	326.0	326.0	*326.0*	326.0	326.0	326.0	326.0	326.0

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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: SP1-2407-176-5

Test Date: 09/24/2024

Luminaire Tested: MEM2-HTN-VA-30-740-U-WQ

Data in this report applies to families of products including MEM2-HTN-VA-30-740-U-WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

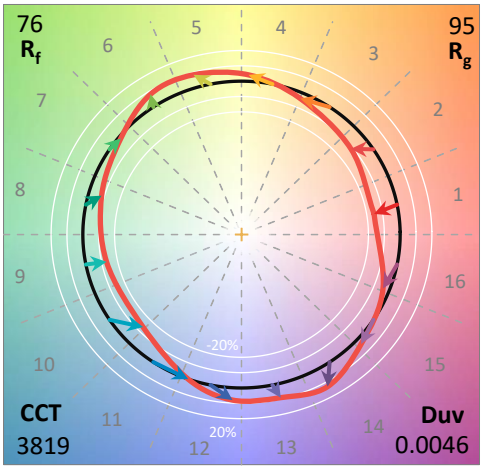
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-176-5
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-30-740-U-WQ**
Description:	EPIC MODERN VISUAL COMFORT 30W WAVESTREAM WIDE

Spectral Parameters

CCT (K):	3819	CRI (Ra):	72.9		
CIE u':	0.2261	R1:	70.1	R9:	-21.5
CIE v':	0.5108	R2:	78.4	R10:	48.5
Duv:	0.0046	R3:	85.0	R11:	68.4
CIE x:	0.3926	R4:	72.9	R12:	39.0
CIE y:	0.3942	R5:	69.1	R13:	71.1
CIE z:	0.2132	R6:	69.2	R14:	91.3
Peak Wavelength (nm):	450	R7:	82.8	R15:	63.2
Dominant Wavelength (nm):	577	R8:	55.4		
Purity:	36.15483				

Rf:	75.6
Rg:	94.8



Test Conditions

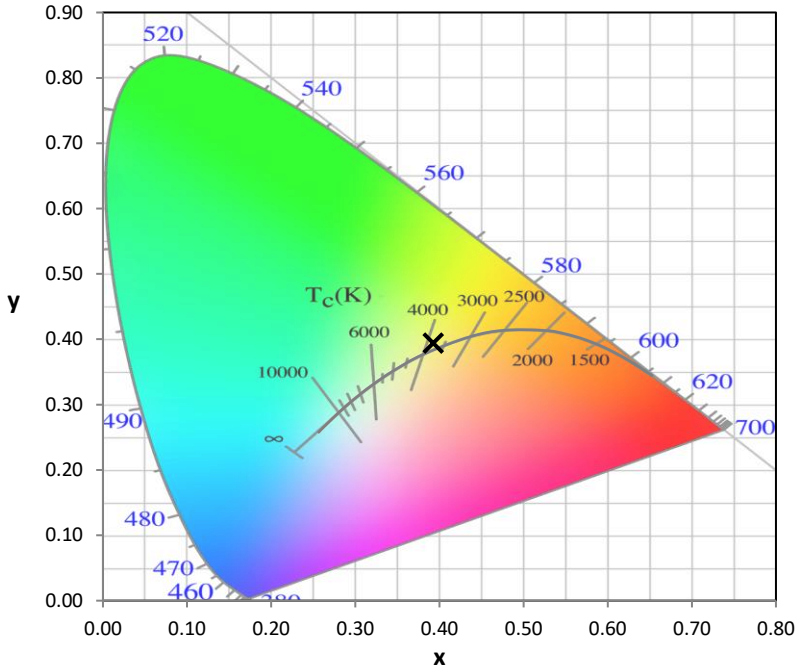
Stabilization Time:	30M
Operation Time:	1H 30M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-176-5

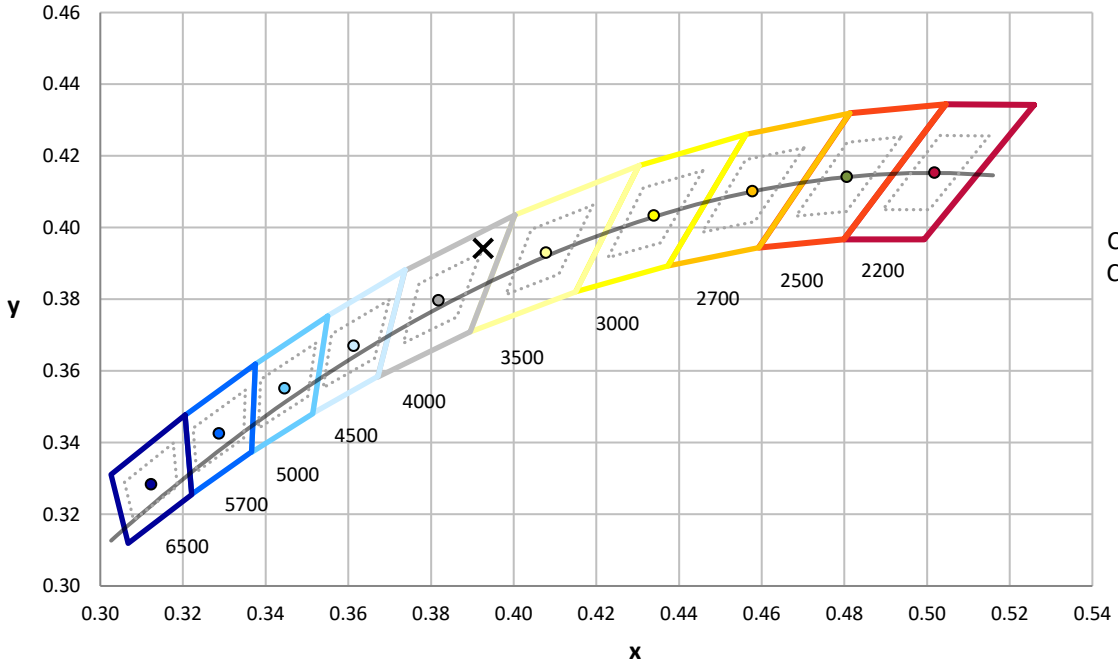
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-176-5

CIE 1931 Chromaticity Diagram



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

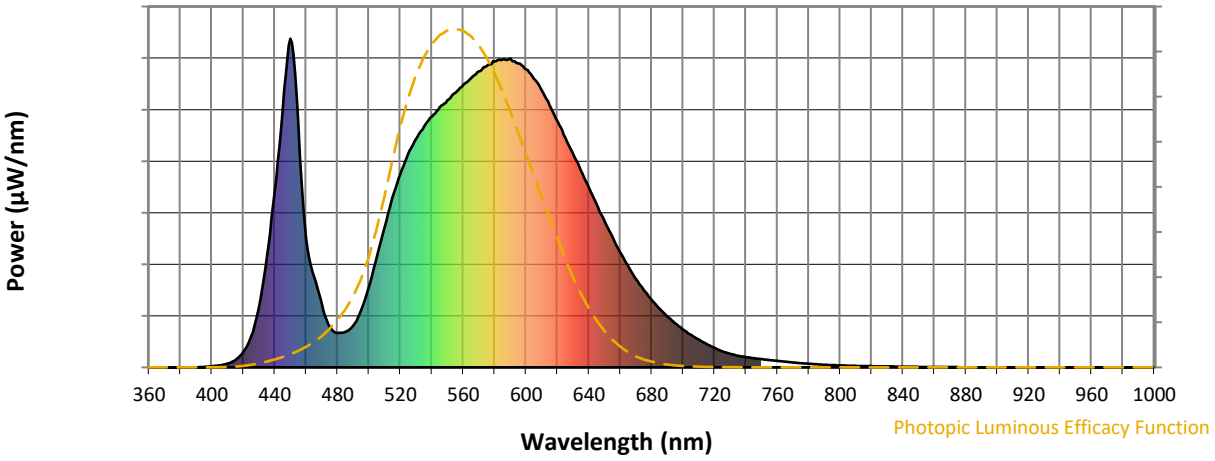


CCT = 3819K
CIE x = 0.3926
CIE y = 0.3942
Duv = 0.0046

Point lies inside the ANSI 4000K 7-step quadrangle

REPORT NUMBER: SP1-2407-176-5

Photopic Flux vs. Wavelength

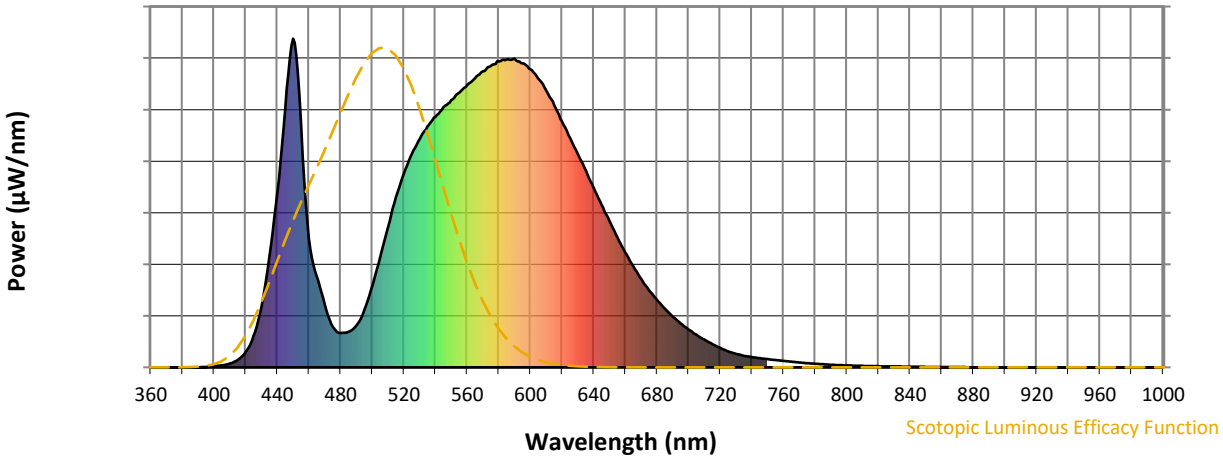


Photopic Lumens: NR

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	127	NR	620	748	NR	750	25	NR	880	0	NR
365	0	NR	495	173	NR	625	699	NR	755	22	NR	885	0	NR
370	0	NR	500	246	NR	630	648	NR	760	20	NR	890	0	NR
375	0	NR	505	335	NR	635	599	NR	765	17	NR	895	0	NR
380	0	NR	510	427	NR	640	547	NR	770	15	NR	900	0	NR
385	0	NR	515	517	NR	645	495	NR	775	13	NR	905	0	NR
390	0	NR	520	589	NR	650	445	NR	780	11	NR	910	0	NR
395	1	NR	525	649	NR	655	396	NR	785	9	NR	915	0	NR
400	4	NR	530	695	NR	660	349	NR	790	8	NR	920	0	NR
405	6	NR	535	733	NR	665	308	NR	795	7	NR	925	0	NR
410	11	NR	540	763	NR	670	269	NR	800	6	NR	930	0	NR
415	23	NR	545	792	NR	675	235	NR	805	5	NR	935	0	NR
420	46	NR	550	813	NR	680	205	NR	810	5	NR	940	0	NR
425	95	NR	555	835	NR	685	178	NR	815	4	NR	945	0	NR
430	183	NR	560	859	NR	690	155	NR	820	3	NR	950	0	NR
435	338	NR	565	880	NR	695	134	NR	825	3	NR	955	0	NR
440	534	NR	570	900	NR	700	115	NR	830	3	NR	960	0	NR
445	782	NR	575	918	NR	705	99	NR	835	2	NR	965	0	NR
450	1000	NR	580	931	NR	710	84	NR	840	2	NR	970	0	NR
455	739	NR	585	937	NR	715	71	NR	845	2	NR	975	0	NR
460	393	NR	590	939	NR	720	59	NR	850	1	NR	980	0	NR
465	276	NR	595	925	NR	725	49	NR	855	1	NR	985	0	NR
470	190	NR	600	907	NR	730	41	NR	860	1	NR	990	0	NR
475	123	NR	605	878	NR	735	35	NR	865	1	NR	995	0	NR
480	105	NR	610	842	NR	740	31	NR	870	1	NR	1000	0	NR
485	108	NR	615	797	NR	745	28	NR	875	1	NR			

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Scotopic Flux vs. Wavelength

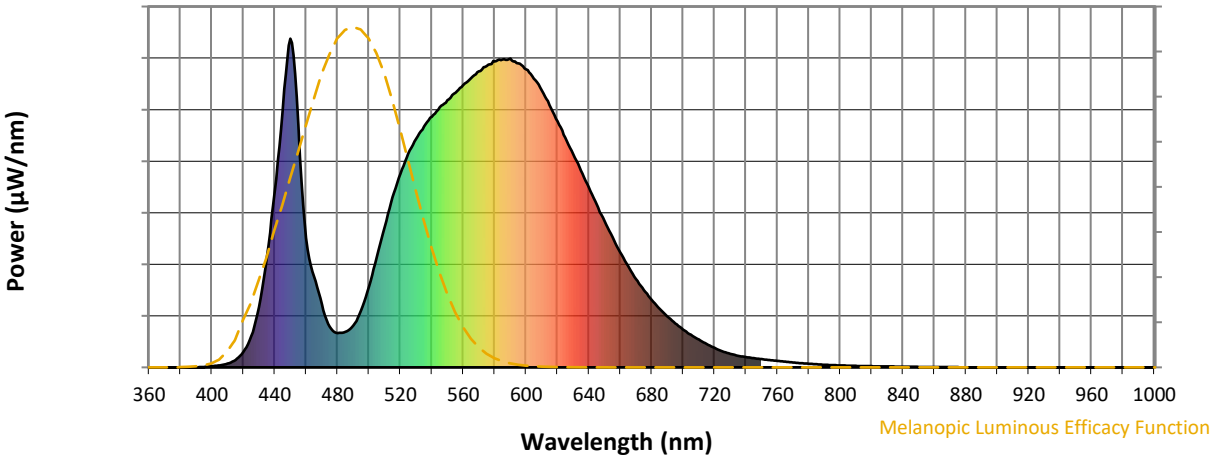


Scotopic Lumens: NR **S/P: 1.45**

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	127	NR	620	748	NR	750	25	NR	880	0	NR
365	0	NR	495	173	NR	625	699	NR	755	22	NR	885	0	NR
370	0	NR	500	246	NR	630	648	NR	760	20	NR	890	0	NR
375	0	NR	505	335	NR	635	599	NR	765	17	NR	895	0	NR
380	0	NR	510	427	NR	640	547	NR	770	15	NR	900	0	NR
385	0	NR	515	517	NR	645	495	NR	775	13	NR	905	0	NR
390	0	NR	520	589	NR	650	445	NR	780	11	NR	910	0	NR
395	1	NR	525	649	NR	655	396	NR	785	9	NR	915	0	NR
400	4	NR	530	695	NR	660	349	NR	790	8	NR	920	0	NR
405	6	NR	535	733	NR	665	308	NR	795	7	NR	925	0	NR
410	11	NR	540	763	NR	670	269	NR	800	6	NR	930	0	NR
415	23	NR	545	792	NR	675	235	NR	805	5	NR	935	0	NR
420	46	NR	550	813	NR	680	205	NR	810	5	NR	940	0	NR
425	95	NR	555	835	NR	685	178	NR	815	4	NR	945	0	NR
430	183	NR	560	859	NR	690	155	NR	820	3	NR	950	0	NR
435	338	NR	565	880	NR	695	134	NR	825	3	NR	955	0	NR
440	534	NR	570	900	NR	700	115	NR	830	3	NR	960	0	NR
445	782	NR	575	918	NR	705	99	NR	835	2	NR	965	0	NR
450	1000	NR	580	931	NR	710	84	NR	840	2	NR	970	0	NR
455	739	NR	585	937	NR	715	71	NR	845	2	NR	975	0	NR
460	393	NR	590	939	NR	720	59	NR	850	1	NR	980	0	NR
465	276	NR	595	925	NR	725	49	NR	855	1	NR	985	0	NR
470	190	NR	600	907	NR	730	41	NR	860	1	NR	990	0	NR
475	123	NR	605	878	NR	735	35	NR	865	1	NR	995	0	NR
480	105	NR	610	842	NR	740	31	NR	870	1	NR	1000	0	NR
485	108	NR	615	797	NR	745	28	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.76**

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	127	NR	620	748	NR	750	25	NR	880	0	NR
365	0	NR	495	173	NR	625	699	NR	755	22	NR	885	0	NR
370	0	NR	500	246	NR	630	648	NR	760	20	NR	890	0	NR
375	0	NR	505	335	NR	635	599	NR	765	17	NR	895	0	NR
380	0	NR	510	427	NR	640	547	NR	770	15	NR	900	0	NR
385	0	NR	515	517	NR	645	495	NR	775	13	NR	905	0	NR
390	0	NR	520	589	NR	650	445	NR	780	11	NR	910	0	NR
395	1	NR	525	649	NR	655	396	NR	785	9	NR	915	0	NR
400	4	NR	530	695	NR	660	349	NR	790	8	NR	920	0	NR
405	6	NR	535	733	NR	665	308	NR	795	7	NR	925	0	NR
410	11	NR	540	763	NR	670	269	NR	800	6	NR	930	0	NR
415	23	NR	545	792	NR	675	235	NR	805	5	NR	935	0	NR
420	46	NR	550	813	NR	680	205	NR	810	5	NR	940	0	NR
425	95	NR	555	835	NR	685	178	NR	815	4	NR	945	0	NR
430	183	NR	560	859	NR	690	155	NR	820	3	NR	950	0	NR
435	338	NR	565	880	NR	695	134	NR	825	3	NR	955	0	NR
440	534	NR	570	900	NR	700	115	NR	830	3	NR	960	0	NR
445	782	NR	575	918	NR	705	99	NR	835	2	NR	965	0	NR
450	1000	NR	580	931	NR	710	84	NR	840	2	NR	970	0	NR
455	739	NR	585	937	NR	715	71	NR	845	2	NR	975	0	NR
460	393	NR	590	939	NR	720	59	NR	850	1	NR	980	0	NR
465	276	NR	595	925	NR	725	49	NR	855	1	NR	985	0	NR
470	190	NR	600	907	NR	730	41	NR	860	1	NR	990	0	NR
475	123	NR	605	878	NR	735	35	NR	865	1	NR	995	0	NR
480	105	NR	610	842	NR	740	31	NR	870	1	NR	1000	0	NR
485	108	NR	615	797	NR	745	28	NR	875	1	NR			

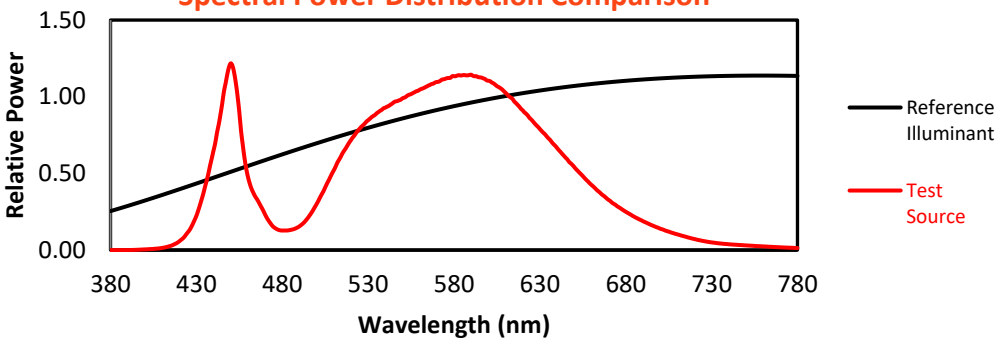
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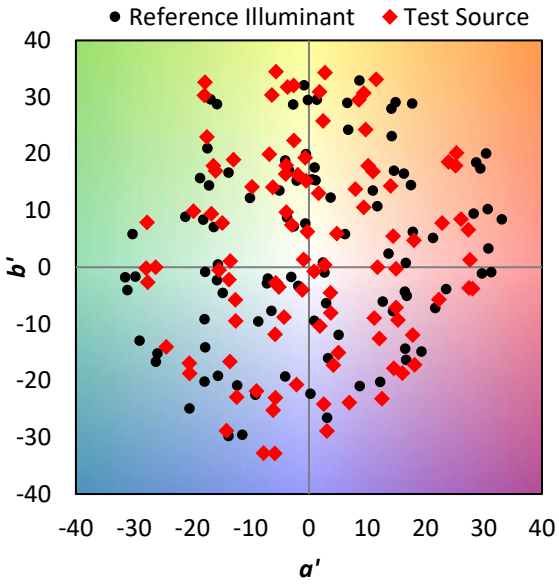
Summary

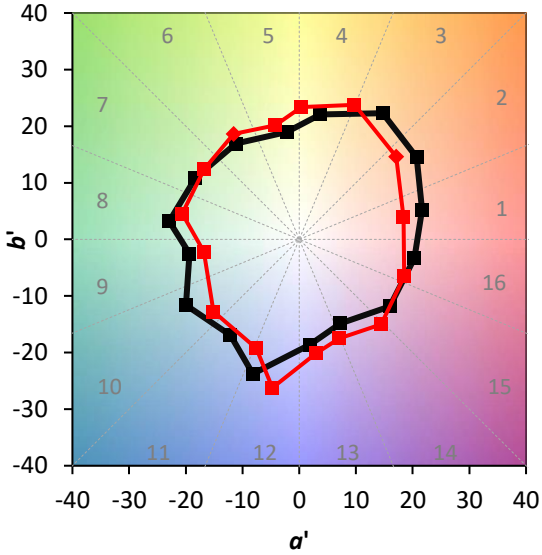
R_f = 75.6
R_g = 94.8
CIE R_a = 72.9
R_9 = -21.5

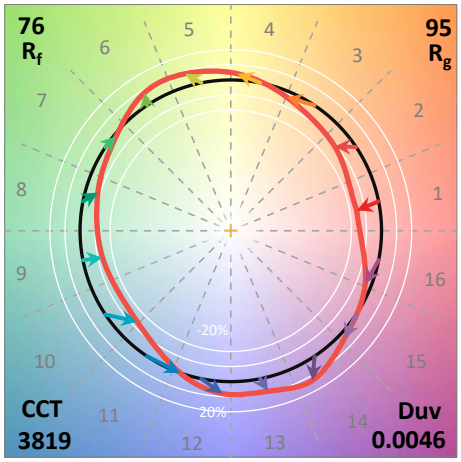
Spectral Power Distribution Comparison

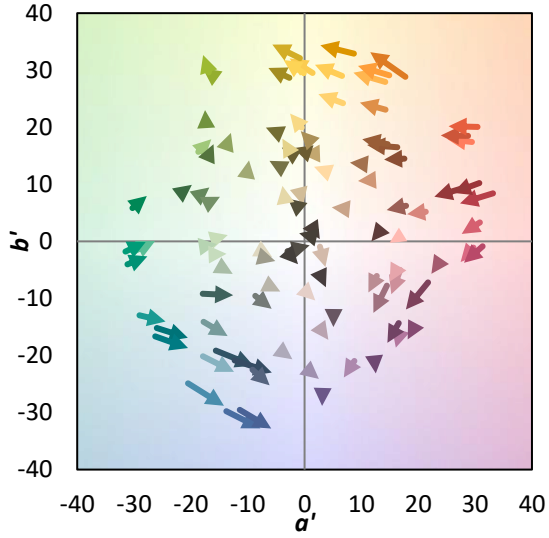


Color Vector Graphics







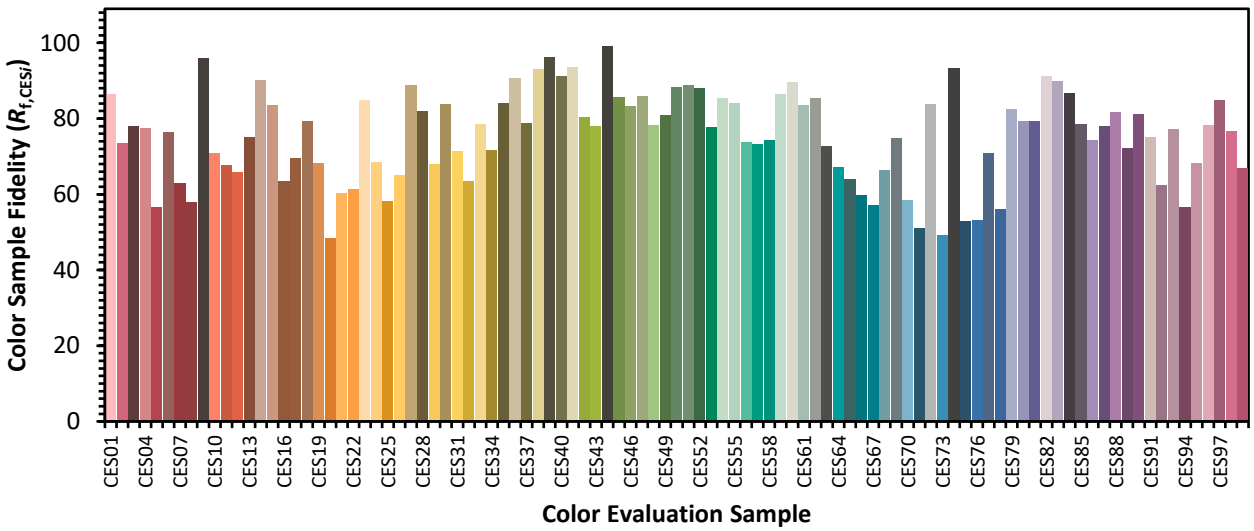


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Individual Sample Fidelity Index ($R_{f,i}$)

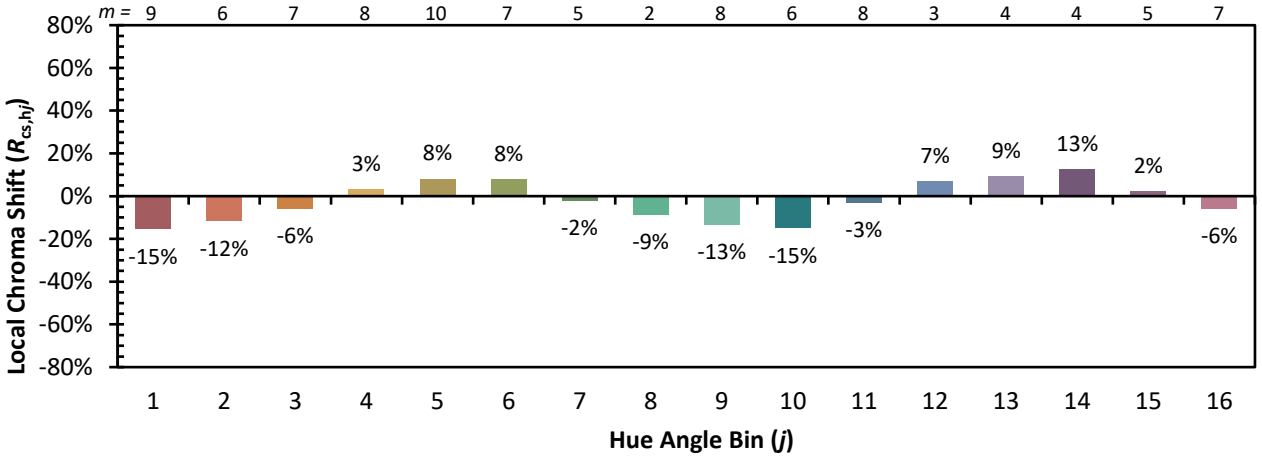
CES01 = 85	CES26 = 65	CES51 = 89	CES76 = 53
CES02 = 61	CES27 = 89	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 82	CES53 = 78	CES78 = 56
CES04 = 70	CES29 = 68	CES54 = 85	CES79 = 83
CES05 = 48	CES30 = 84	CES55 = 84	CES80 = 79
CES06 = 50	CES31 = 71	CES56 = 74	CES81 = 79
CES07 = 40	CES32 = 63	CES57 = 73	CES82 = 91
CES08 = 39	CES33 = 79	CES58 = 74	CES83 = 90
CES09 = 29	CES34 = 72	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 84	CES60 = 90	CES85 = 78
CES11 = 57	CES36 = 91	CES61 = 84	CES86 = 74
CES12 = 63	CES37 = 79	CES62 = 85	CES87 = 78
CES13 = 42	CES38 = 93	CES63 = 73	CES88 = 82
CES14 = 74	CES39 = 96	CES64 = 67	CES89 = 72
CES15 = 71	CES40 = 91	CES65 = 64	CES90 = 81
CES16 = 47	CES41 = 93	CES66 = 60	CES91 = 75
CES17 = 49	CES42 = 80	CES67 = 57	CES92 = 62
CES18 = 56	CES43 = 78	CES68 = 66	CES93 = 77
CES19 = 72	CES44 = 99	CES69 = 75	CES94 = 57
CES20 = 65	CES45 = 86	CES70 = 58	CES95 = 68
CES21 = 86	CES46 = 83	CES71 = 51	CES96 = 78
CES22 = 78	CES47 = 86	CES72 = 84	CES97 = 85
CES23 = 92	CES48 = 78	CES73 = 49	CES98 = 77
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 67
CES25 = 72	CES50 = 88	CES75 = 53	

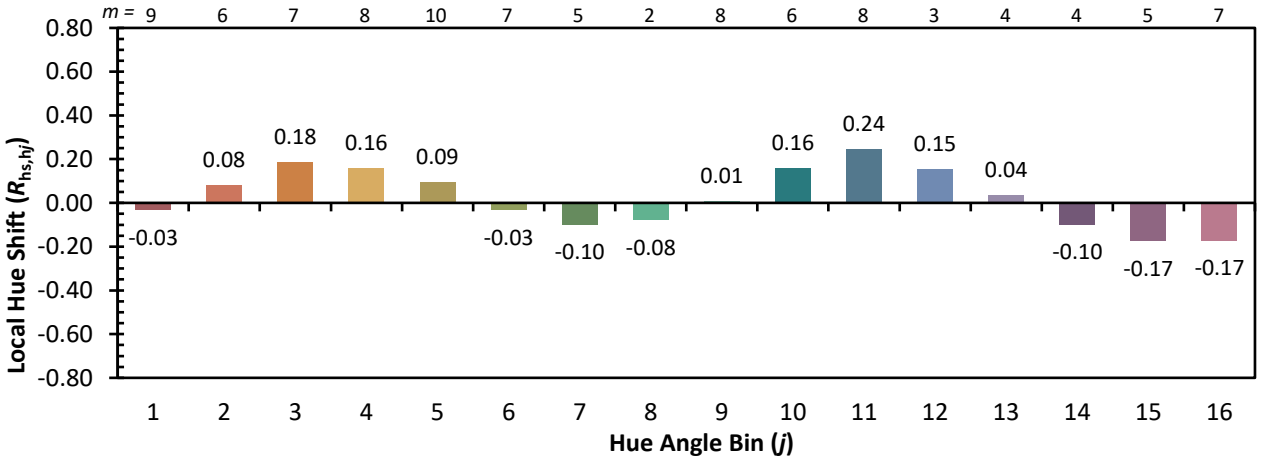


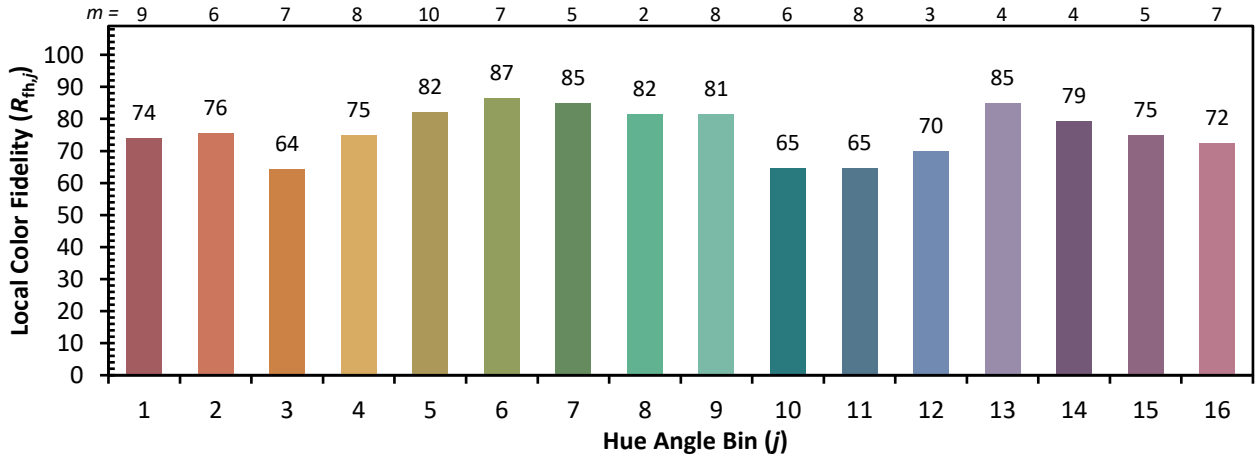
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Color Rendition by Hue-Angle Bin



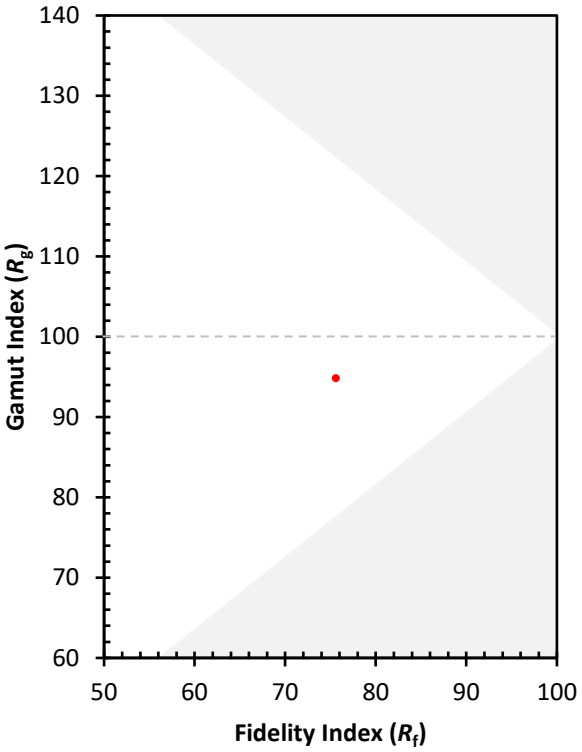


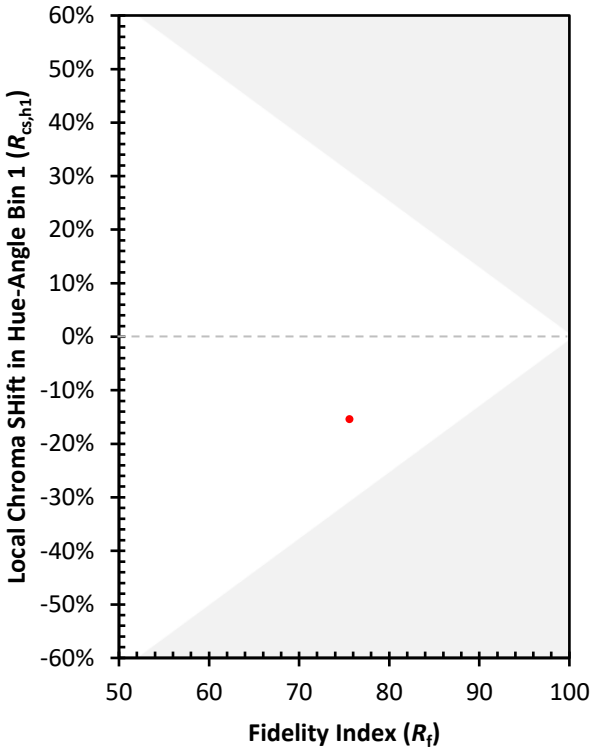


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Measure Comparisons





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