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: P821553

Luminaire Tested: **TT-D5-740-12VDC-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:	P821553
	REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (G2-2002-677-1) AND
Test Lab:	INNOVATION CENTER
Issue Date:	10/29/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	TT-D5-740-12VDC-RW-UPL
Description:	TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
	4000K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8504.7 lumens
Efficiency:	N/A
Efficacy:	116.5 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U4 - G3

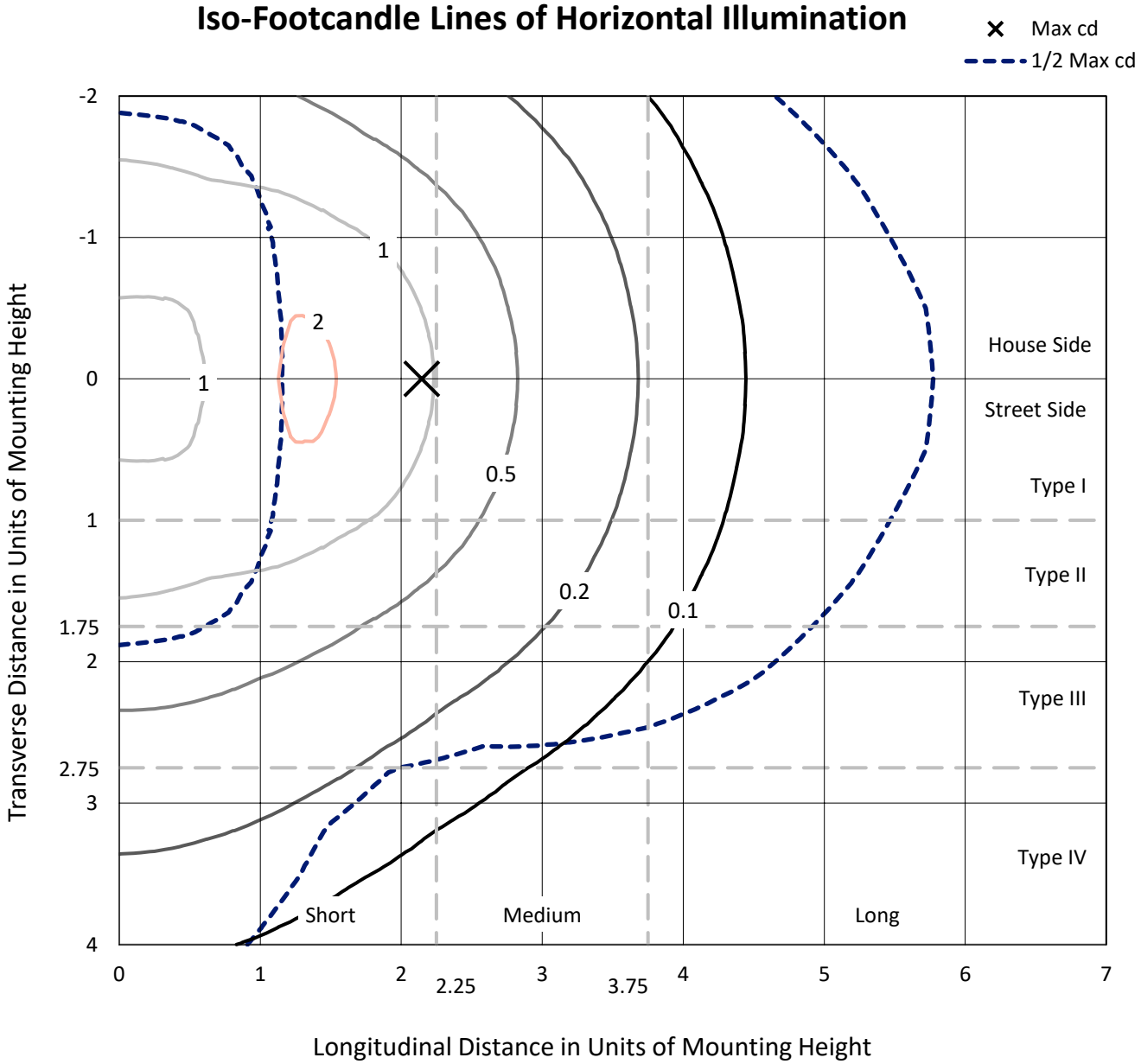
Input Watts (W):	73
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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REPORT NUMBER: P821553
CATALOG NUMBER: TT-D5-740-12VDC-RW-UPL

Iso-Footcandle Lines of Horizontal Illumination



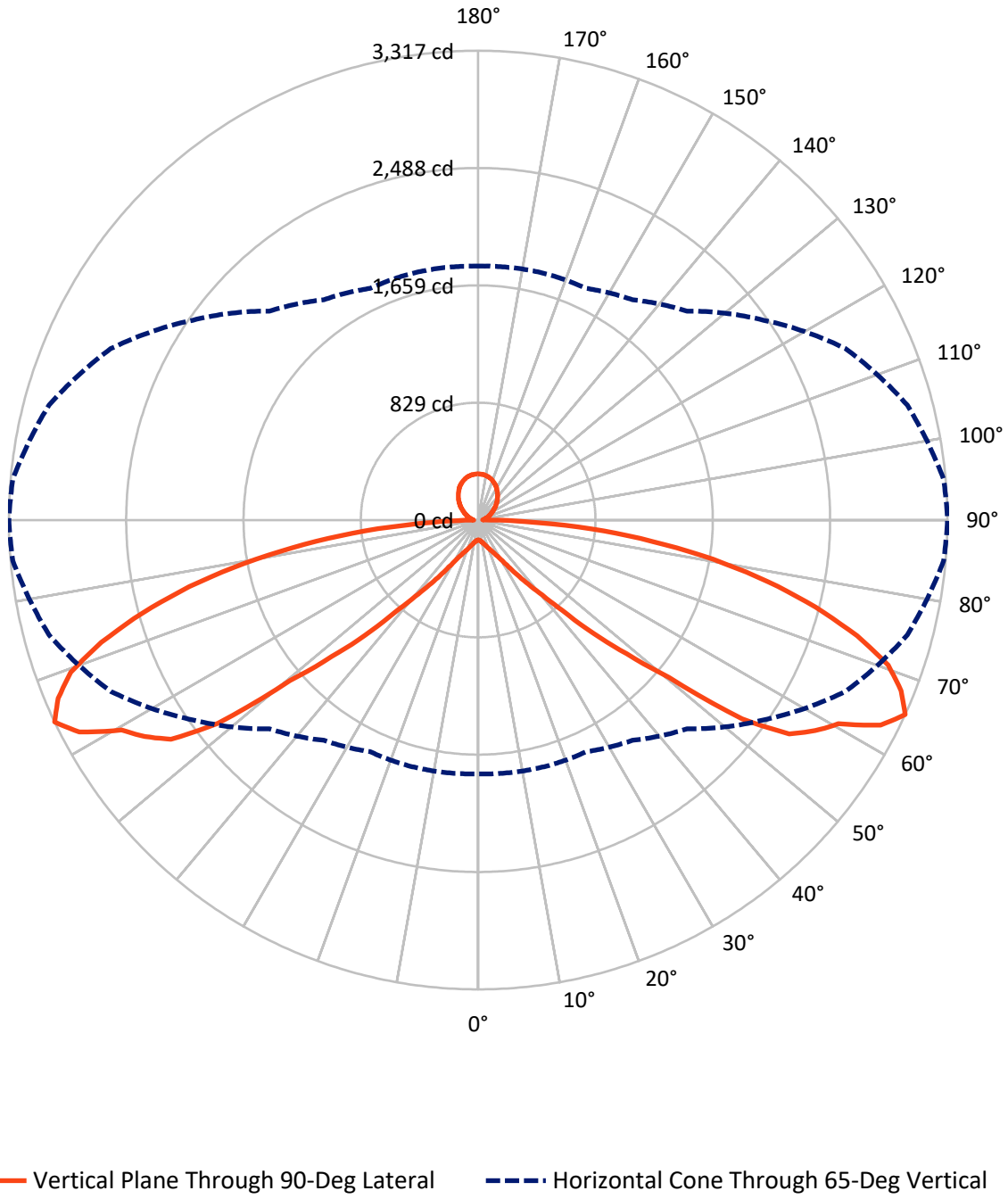
Based on 15 foot mounting height. Maximum calculated value = 2.3 fc
Type IV - Short - N/A

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REPORT NUMBER: P821553
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Luminous Intensity Polar Plot



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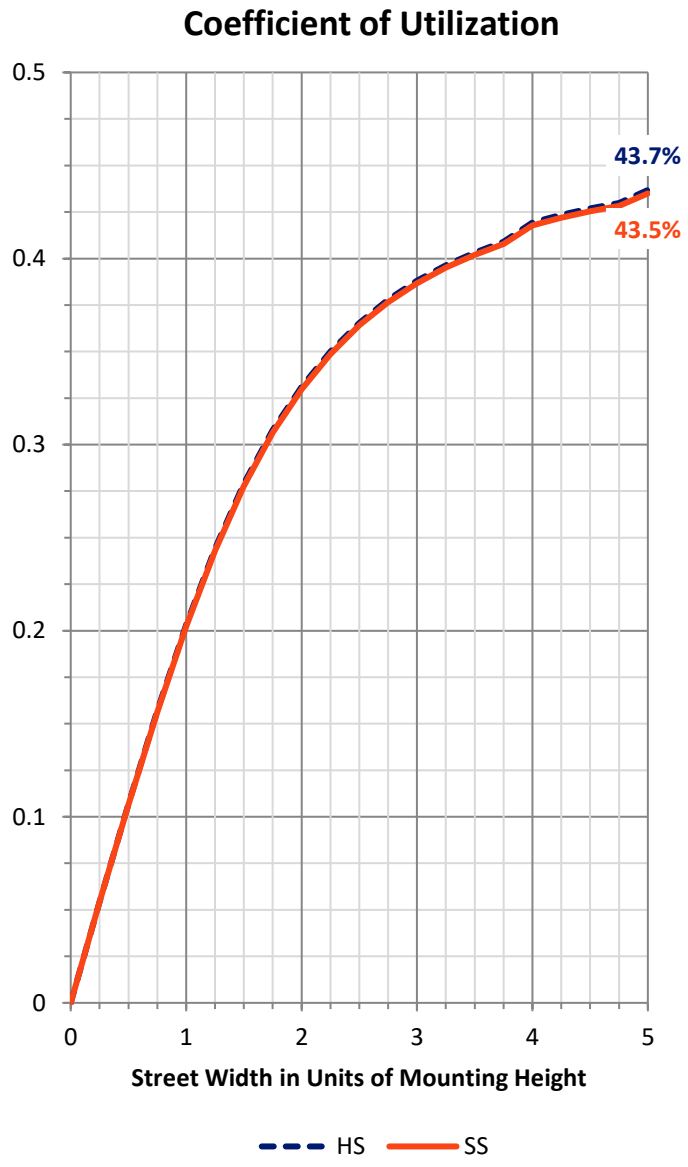
REPORT NUMBER: P821553
CATALOG NUMBER: TT-D5-740-12VDC-RW-UPL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3809.6	442.7	4252.4
	% Fixture	44.8	5.2	50.0
Street Side	Lumens	3809.6	442.7	4252.4
	% Fixture	44.8	5.2	50.0
Total	Lumens	7619.3	885.5	8504.7
	% Fixture	89.6	10.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.5	0.2
10°-20°	54.3	0.6
20°-30°	125.5	1.5
30°-40°	283.7	3.3
40°-50°	691.1	8.1
50°-60°	1554.2	18.3
60°-70°	2271.4	26.7
70°-80°	1979.2	23.3
80°-90°	645.4	7.6
90°-100°	45.4	0.5
100°-110°	70.3	0.8
110°-120°	97.7	1.1
120°-130°	126.6	1.5
130°-140°	147.6	1.7
140°-150°	149.5	1.8
150°-160°	129.8	1.5
160°-170°	87.7	1.0
170°-180°	30.8	0.4
0°-90°	7619.3	89.6
0°-180°	8504.7	100.0



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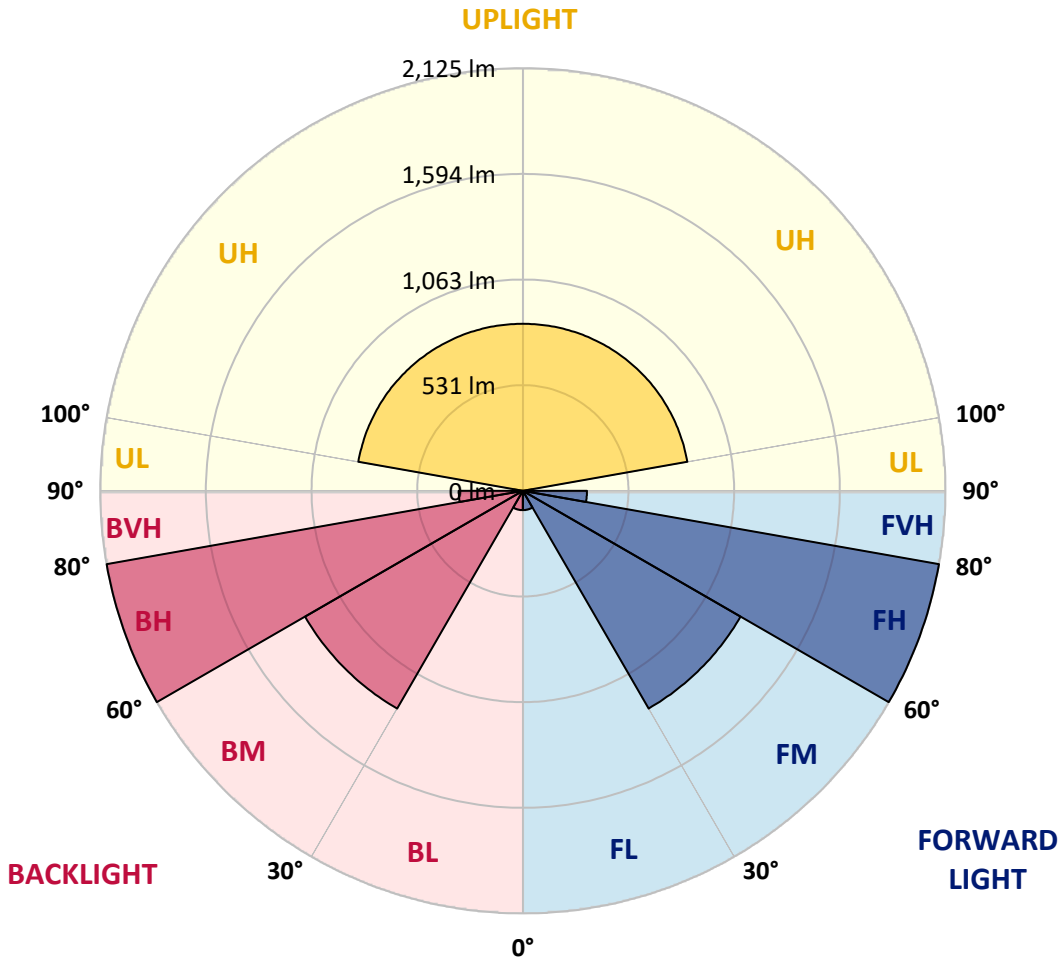
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CATALOG NUMBER: TT-D5-740-12VDC-RW-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	97.2	1.1			
FM	(30°-60°)	1264.5	14.9			
FH	(60°-80°)	2125.3	25.0			G2/5000
FVH	(80°-90°)	322.7	3.8			G3/500
BL	(0°-30°)	97.2	1.1	B0/110		
BM	(30°-60°)	1264.5	14.9	B2/2500		
BH	(60°-80°)	2125.3	25.0	B3/2500		G3/2500
BVH	(80°-90°)	322.7	3.8			G3/500
UL	(90°-100°)	45.4	0.5		U2/50	
UH	(100°-180°)	840.1	9.9		U4/1000	

BUG Rating: B3-U4-G3
Type IV Short



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REPORT NUMBER: P821553
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	139.1	139.1	139.1	139.1	139.1	139.1	139.1	139.1	139.1	139.1	139.1
2.5°	140.9	140.9	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7
5°	146.4	146.4	146.4	146.4	148.2	148.2	146.4	146.4	146.4	146.4	146.4
7.5°	155.4	153.6	155.4	155.4	155.4	153.6	153.6	153.6	151.8	151.8	151.8
10°	164.4	164.4	166.2	164.4	164.4	162.6	162.6	162.6	160.8	160.8	160.8
12.5°	177.1	177.1	177.1	177.1	175.3	175.3	173.5	171.7	169.8	169.8	169.8
15°	193.3	191.5	191.5	189.7	187.9	186.1	184.3	184.3	182.5	182.5	182.5
17.5°	209.6	209.6	207.8	206.0	202.4	200.6	200.6	198.8	196.9	196.9	196.9
20°	229.5	229.5	227.7	224.0	220.4	218.6	216.8	216.8	215.0	215.0	215.0
22.5°	253.0	251.2	247.5	243.9	240.3	238.5	236.7	234.9	234.9	234.9	234.9
25°	278.3	276.4	274.6	269.2	263.8	262.0	258.4	258.4	256.6	258.4	258.4
27.5°	309.0	307.2	303.6	298.1	290.9	287.3	285.5	285.5	287.3	287.3	289.1
30°	346.9	343.3	339.7	332.5	325.2	319.8	319.8	321.6	327.0	330.7	330.7
32.5°	392.1	390.3	384.9	377.6	365.0	361.4	365.0	375.8	383.1	388.5	392.1
35°	444.5	442.7	435.4	422.8	413.8	412.0	422.8	440.9	464.4	471.6	475.2
37.5°	502.3	504.1	495.1	480.6	471.6	475.2	496.9	531.2	554.7	571.0	574.6
40°	574.6	578.2	567.3	551.1	542.1	556.5	590.8	630.6	672.1	692.0	697.4
42.5°	659.5	664.9	650.5	634.2	628.8	652.3	701.1	766.1	840.2	863.7	872.7
45°	764.3	767.9	749.8	735.4	731.8	773.3	856.4	964.9	1082.3	1136.5	1145.5
47.5°	889.0	887.2	870.9	852.8	856.4	916.1	1040.7	1187.1	1311.8	1394.9	1413.0
50°	1031.7	1022.7	1010.0	988.3	1011.8	1098.6	1255.8	1432.8	1642.4	1716.5	1749.0
52.5°	1174.4	1158.2	1147.3	1132.9	1174.4	1286.5	1506.9	1815.9	2132.1	2301.9	2336.3
55°	1302.7	1290.1	1284.7	1286.5	1351.5	1512.3	1801.4	2197.1	2502.5	2643.4	2668.7
57.5°	1429.2	1422.0	1416.6	1427.4	1530.4	1740.0	2065.2	2435.6	2686.8	2791.6	2809.6
60°	1548.5	1555.7	1552.1	1584.6	1709.3	1920.7	2202.5	2567.5	2809.6	2905.4	2925.3
62.5°	1680.4	1685.8	1685.8	1721.9	1823.1	2009.2	2296.5	2722.9	3030.1	3171.0	3192.7
65°	1794.2	1797.8	1805.0	1806.8	1900.8	2086.9	2462.7	2865.7	3140.3	3302.9	3317.4
67.5°	1879.1	1882.7	1873.7	1864.7	1936.9	2105.0	2450.1	2847.6	3091.5	3214.4	3225.2
70°	1947.8	1931.5	1906.2	1861.1	1884.5	2011.0	2345.3	2703.0	2948.8	3059.0	3075.3
72.5°	1956.8	1942.4	1862.9	1761.7	1732.8	1843.0	2161.0	2482.6	2694.0	2798.8	2800.6
75°	1902.6	1864.7	1732.8	1581.0	1526.8	1631.6	1904.4	2197.1	2367.0	2455.5	2464.5
77.5°	1720.1	1684.0	1517.8	1344.3	1282.9	1373.2	1604.5	1841.2	2003.8	2090.5	2095.9
80°	1396.7	1384.0	1232.3	1073.3	999.2	1051.6	1254.0	1440.1	1572.0	1674.9	1684.0
82.5°	1029.9	1019.1	903.4	764.3	704.7	748.0	892.6	1029.9	1152.8	1235.9	1241.3
85°	643.2	621.6	549.3	451.7	412.0	440.9	536.6	628.8	739.0	804.0	807.7
87.5°	215.0	206.0	177.1	146.4	122.9	128.3	157.2	191.5	280.1	309.0	327.0
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: P821553
CATALOG NUMBER: TT-D5-740-12VDC-RW-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

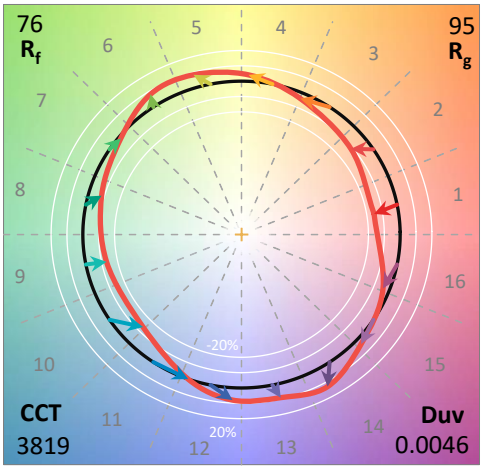
Test Information

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

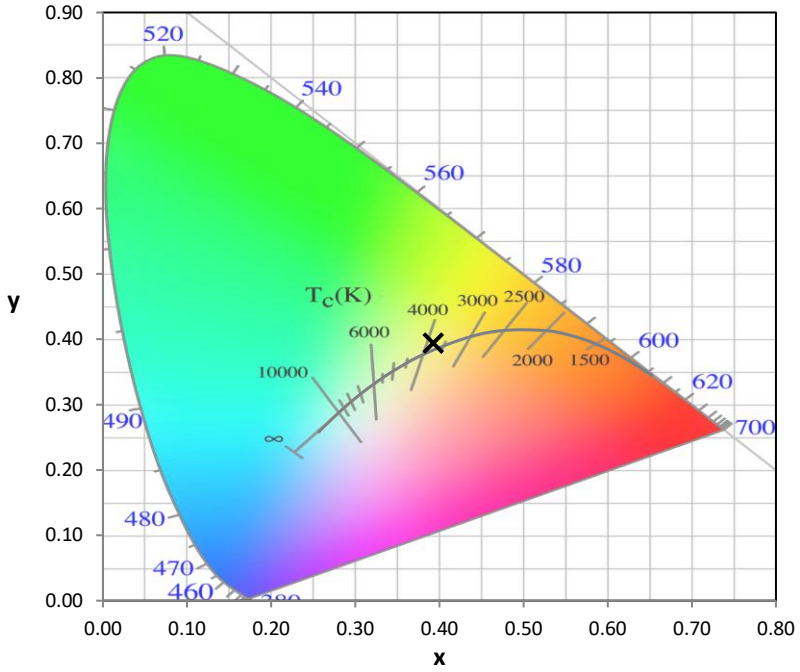
Stabilization Time:	30M
Operation Time:	1H 30M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-176-5

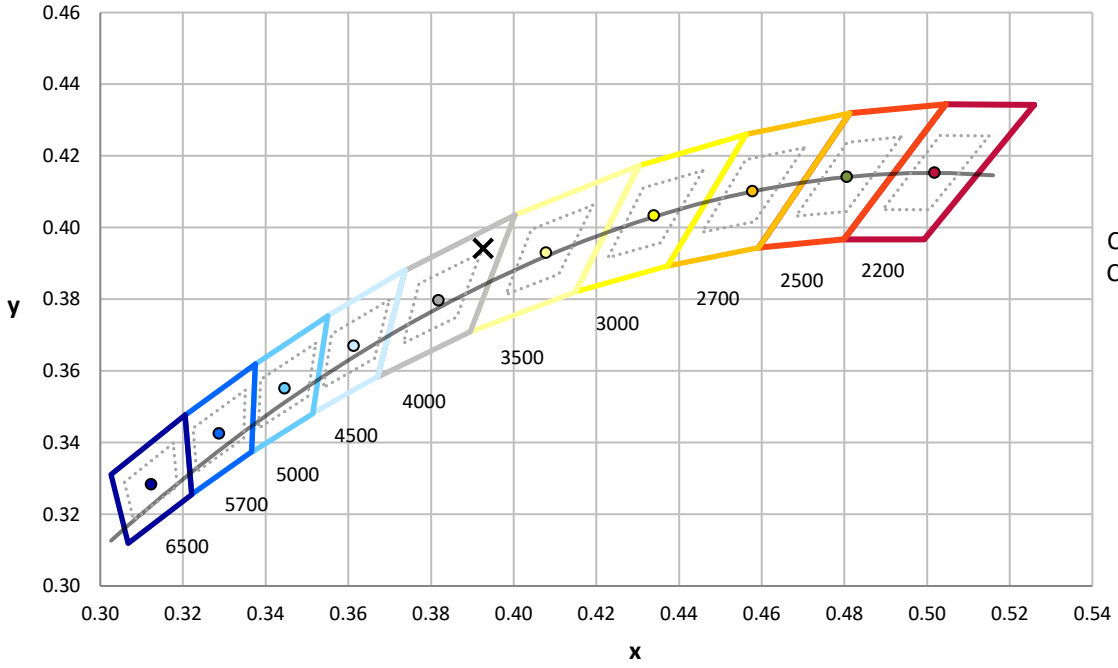
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

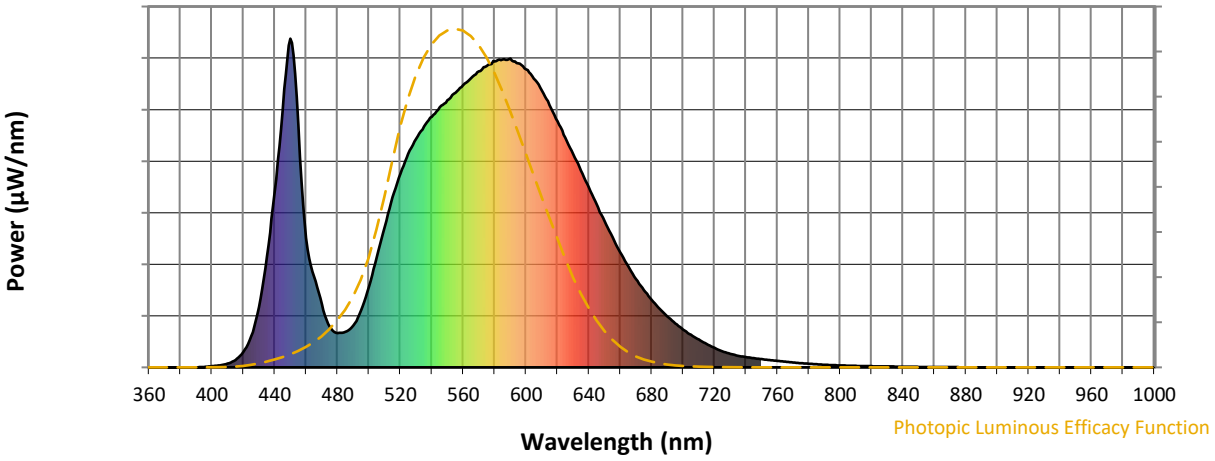


CCT = 3819K
CIE x = 0.3926
CIE y = 0.3942
Duv = 0.0046

Point lies inside the ANSI 4000K 7-step quadrangle

REPORT NUMBER: SP1-2407-176-5

Photopic Flux vs. Wavelength

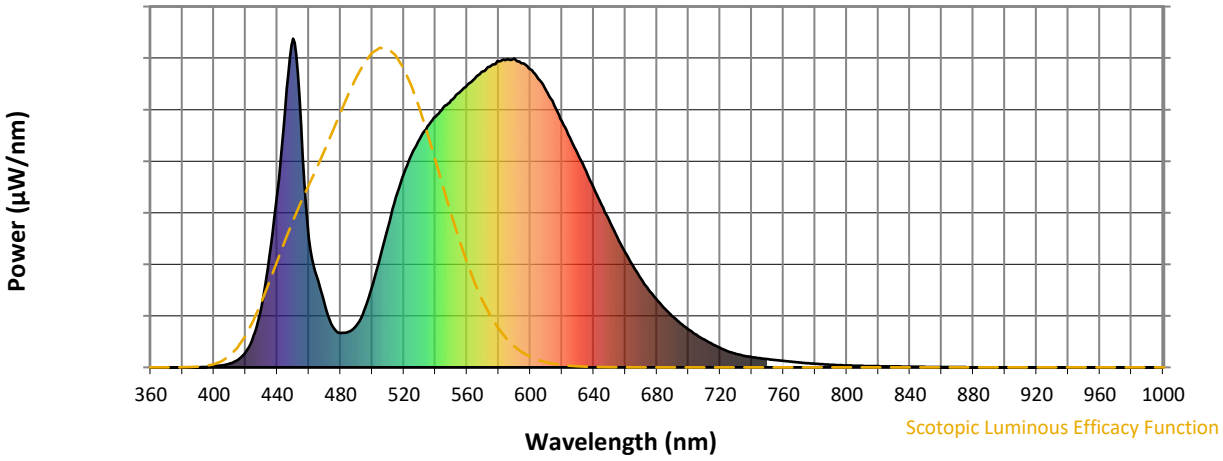


Photopic Lumens: NR

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

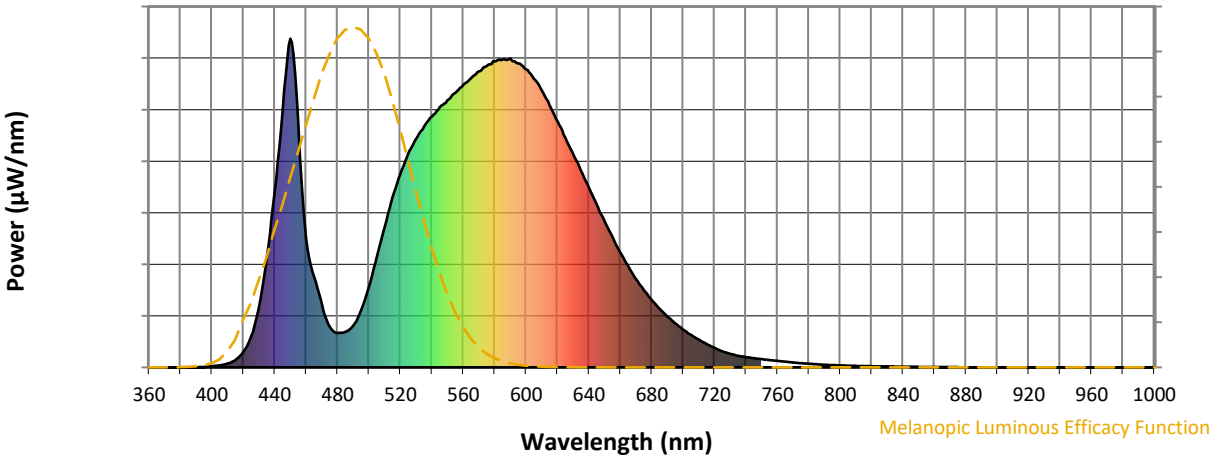


Scotopic Lumens: NR **S/P: 1.45**

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			

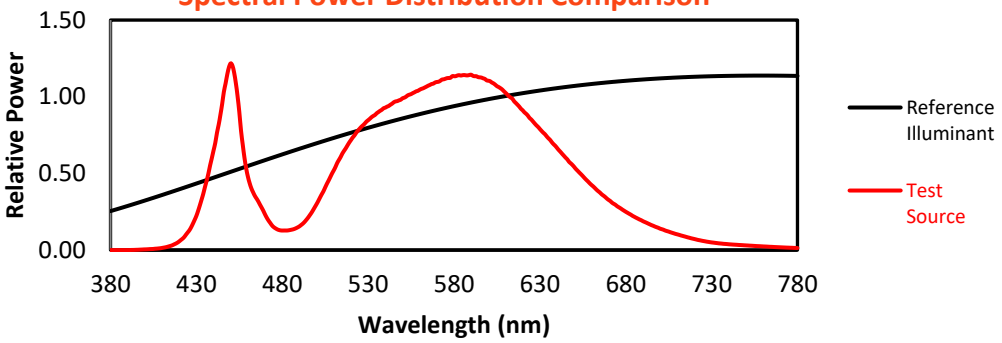
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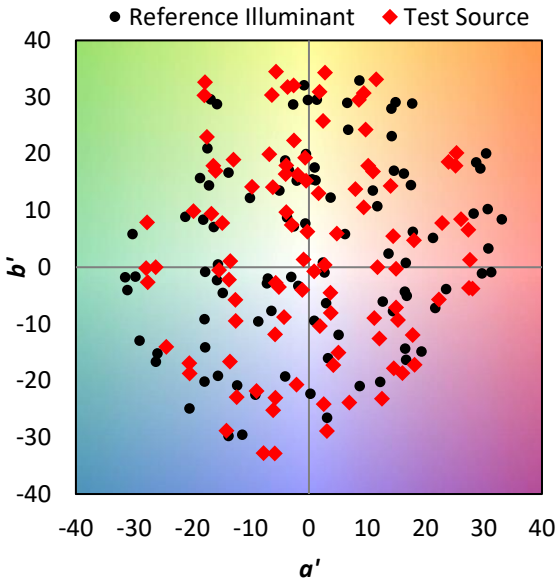
Summary

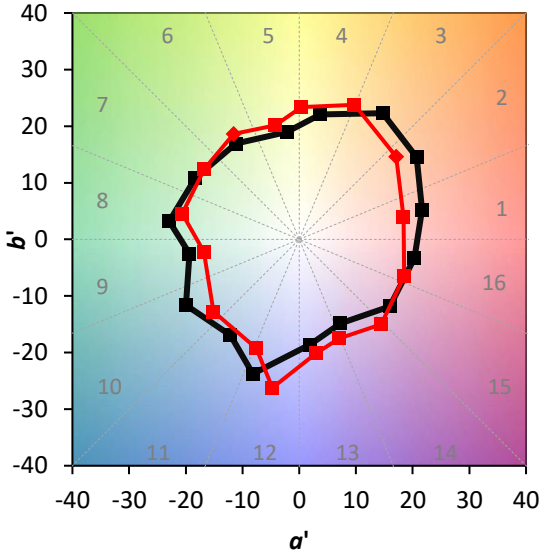
R_f = 75.6
R_g = 94.8
CIE R_a = 72.9
R_9 = -21.5

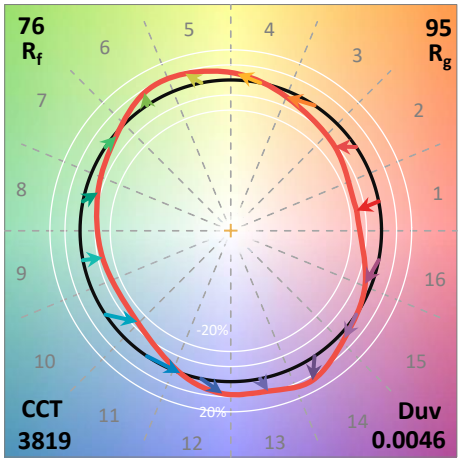
Spectral Power Distribution Comparison

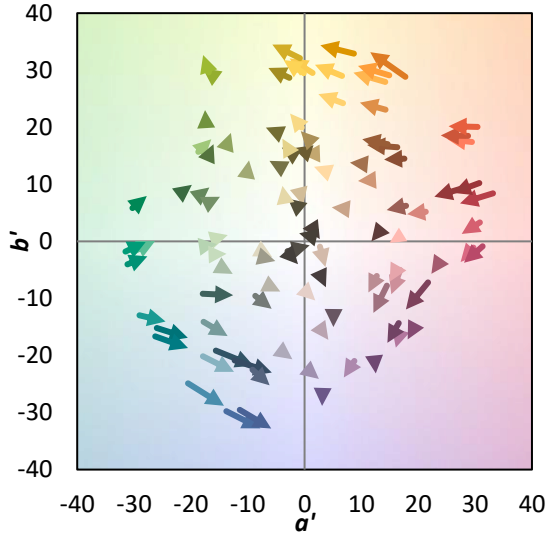


Color Vector Graphics







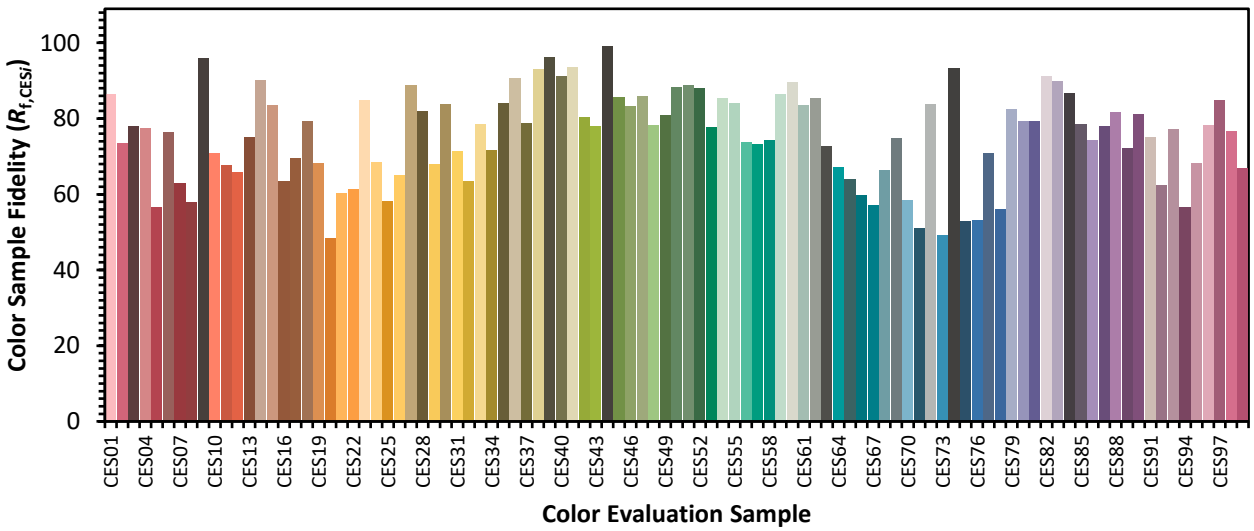


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Individual Sample Fidelity Index ($R_{f,i}$)

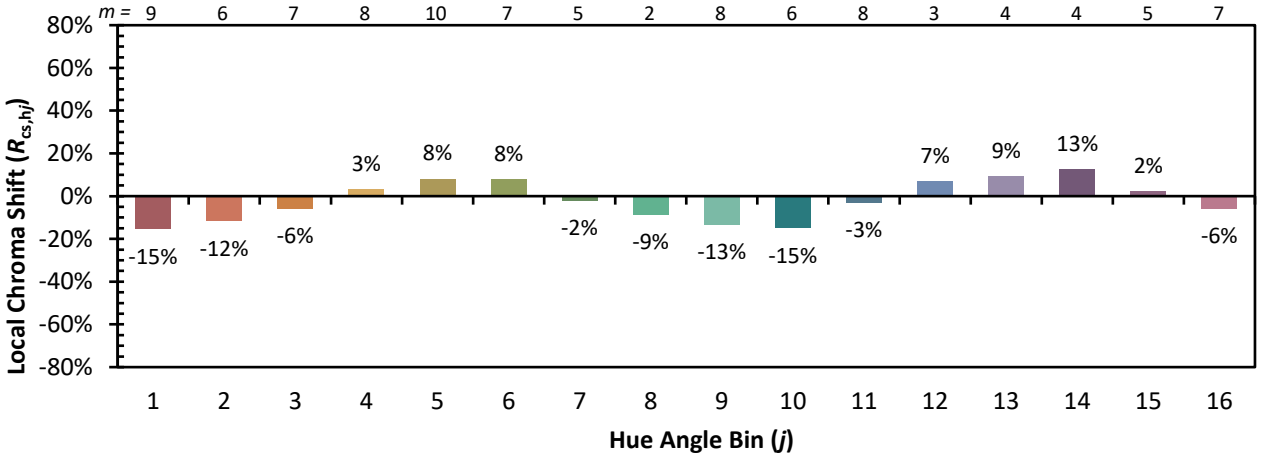
CES01 = 85	CES26 = 65	CES51 = 89	CES76 = 53
CES02 = 61	CES27 = 89	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 82	CES53 = 78	CES78 = 56
CES04 = 70	CES29 = 68	CES54 = 85	CES79 = 83
CES05 = 48	CES30 = 84	CES55 = 84	CES80 = 79
CES06 = 50	CES31 = 71	CES56 = 74	CES81 = 79
CES07 = 40	CES32 = 63	CES57 = 73	CES82 = 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	

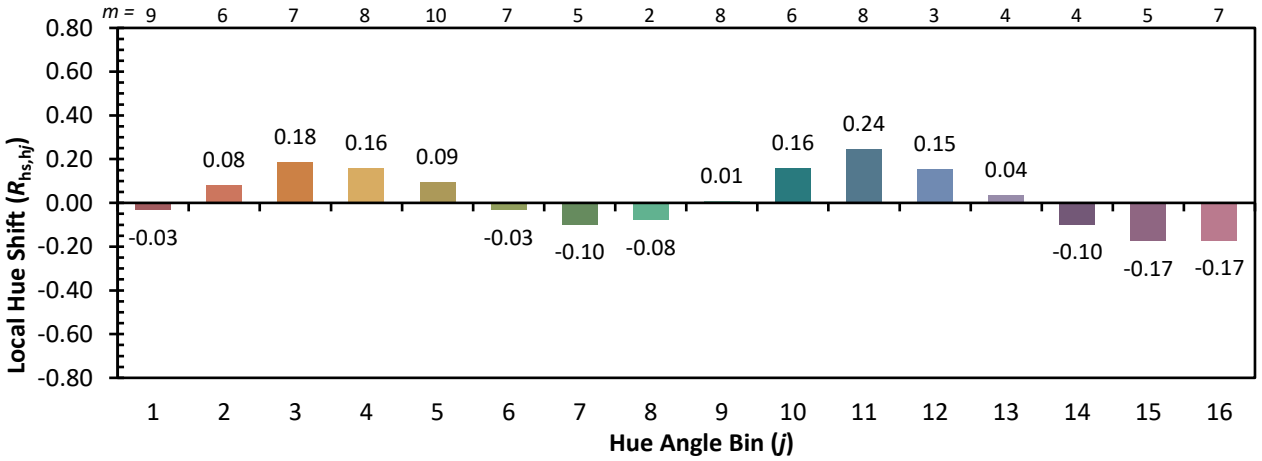


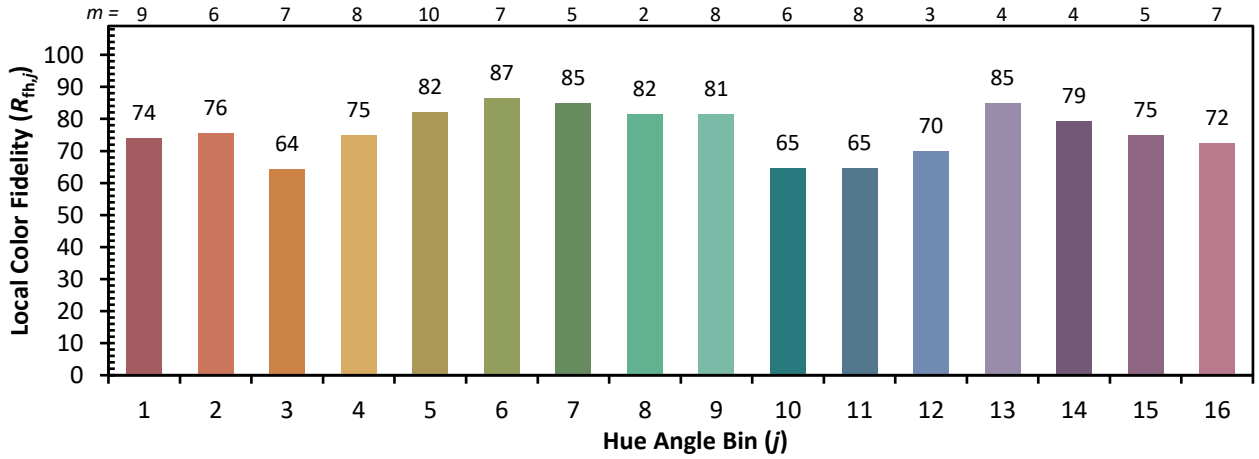
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Color Rendition by Hue-Angle Bin



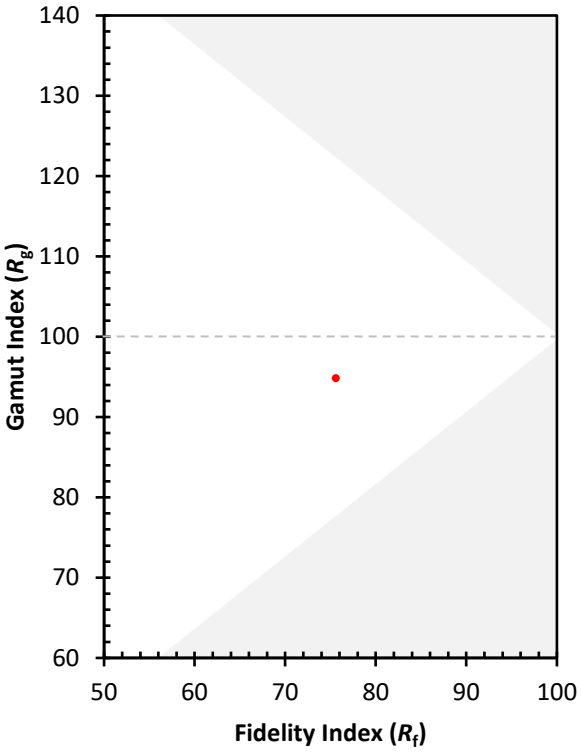


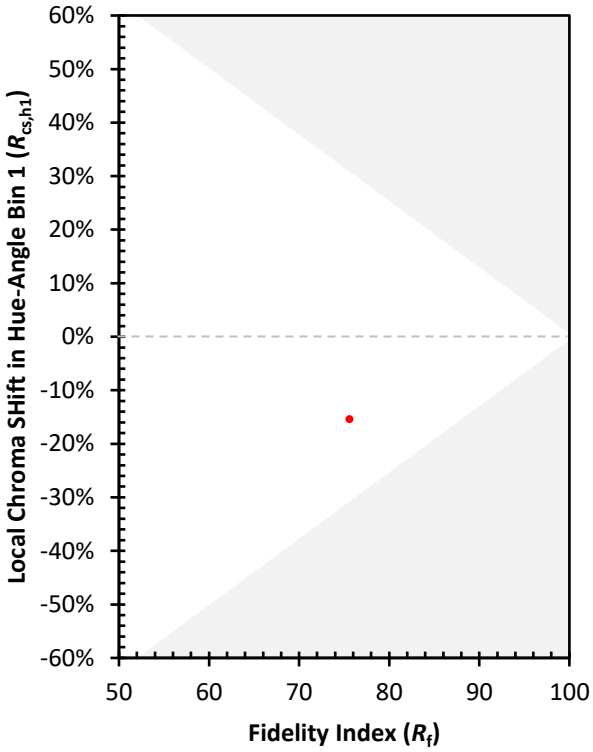


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Measure Comparisons





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