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: P821382

Luminaire Tested: **TT-D4-750-24VDC-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:	P821382
	REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (G2-2002-677-3) AND
Test Lab:	INNOVATION CENTER
Issue Date:	7/23/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	TT-D4-750-24VDC-CQ-UPL
Description:	TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT WITH UPLIGHT
	5000K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8384.4 lumens
Efficiency:	N/A
Efficacy:	147.1 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification:	Type V - Short
BUG Rating:	B2 - U4 - G1

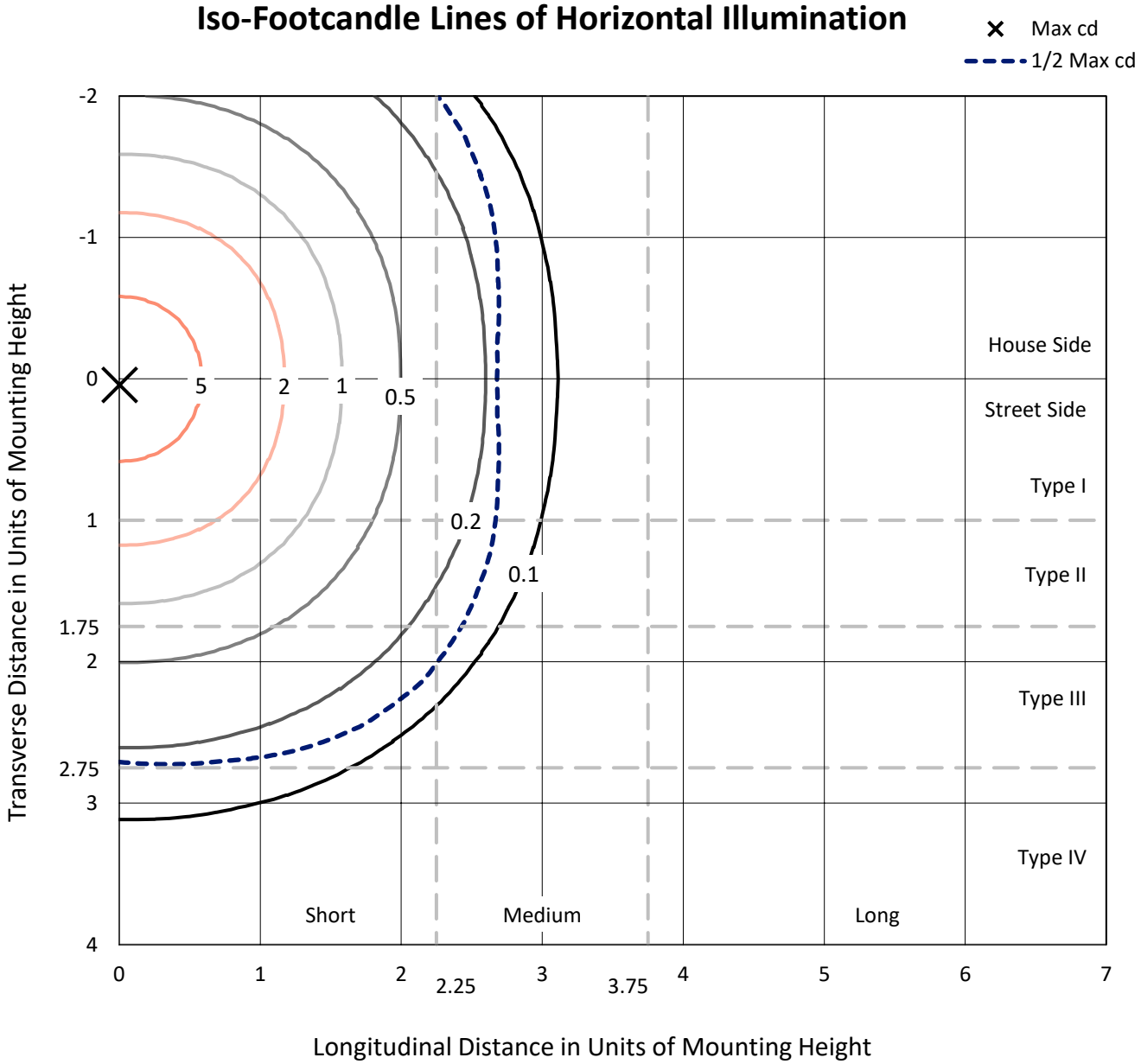
Input Watts (W):	57
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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Scaled Data Report

REPORT NUMBER: P821382
CATALOG NUMBER: TT-D4-750-24VDC-CQ-UPL

Iso-Footcandle Lines of Horizontal Illumination



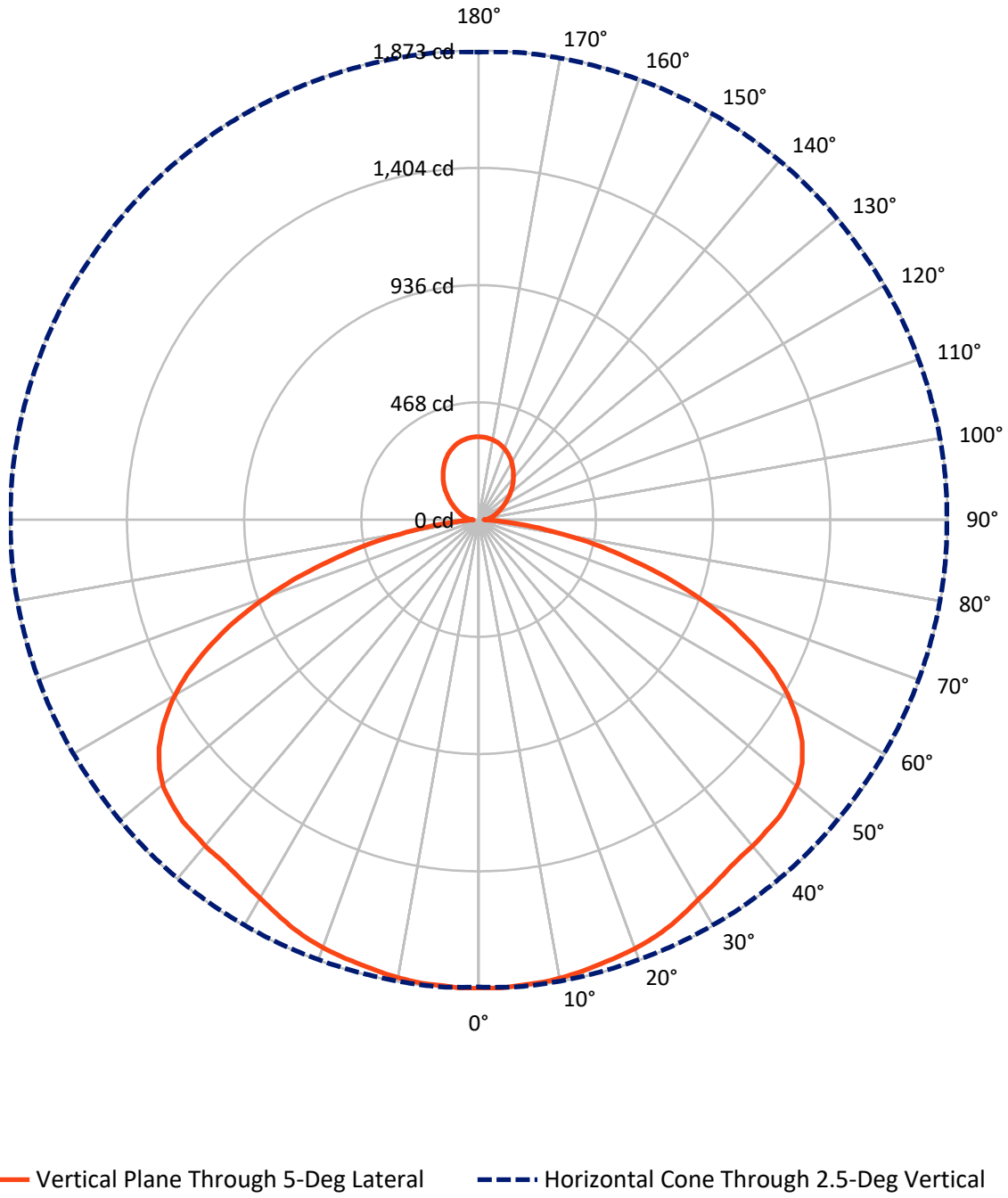
Based on 15 foot mounting height. Maximum calculated value = 8.3 fc
Type V - Short - N/A

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REPORT NUMBER: P821382
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Luminous Intensity Polar Plot



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Scaled Data Report

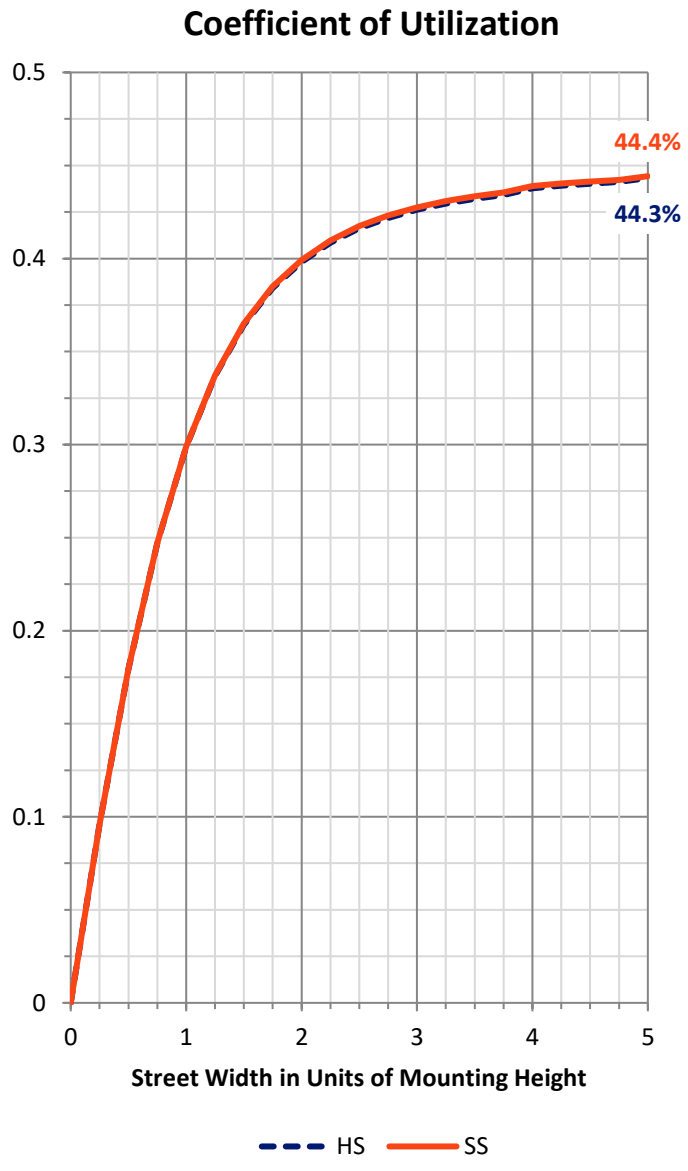
REPORT NUMBER: P821382
CATALOG NUMBER: TT-D4-750-24VDC-CQ-UPL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3742.2	450.0	4192.2
	% Fixture	44.6	5.4	50.0
Street Side	Lumens	3742.2	450.0	4192.2
	% Fixture	44.6	5.4	50.0
Total	Lumens	7484.3	900.0	8384.4
	% Fixture	89.3	10.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.0	2.1
10°-20°	521.2	6.2
20°-30°	828.9	9.9
30°-40°	1090.4	13.0
40°-50°	1334.6	15.9
50°-60°	1445.5	17.2
60°-70°	1243.6	14.8
70°-80°	699.1	8.3
80°-90°	142.9	1.7
90°-100°	46.1	0.6
100°-110°	71.4	0.9
110°-120°	99.4	1.2
120°-130°	128.8	1.5
130°-140°	150.0	1.8
140°-150°	152.1	1.8
150°-160°	131.9	1.6
160°-170°	89.0	1.1
170°-180°	31.3	0.4
0°-90°	7484.3	89.3
0°-180°	8384.4	100.0



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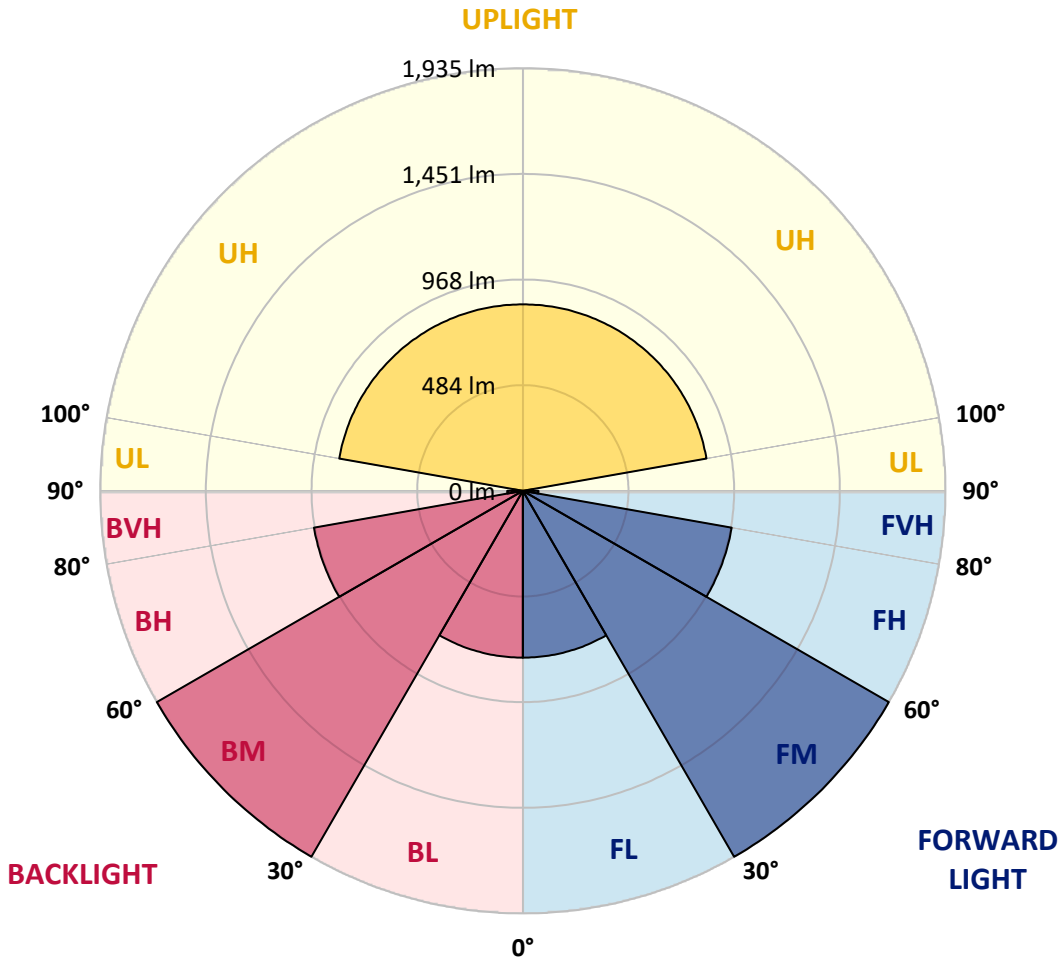
Scaled Data Report

REPORT NUMBER: P821382
CATALOG NUMBER: TT-D4-750-24VDC-CQ-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	764.1	9.1			
FM	(30°-60°)	1935.3	23.1			
FH	(60°-80°)	971.4	11.6			G1/1800
FVH	(80°-90°)	71.5	0.9			G1/100
BL	(0°-30°)	764.1	9.1	B2/1000		
BM	(30°-60°)	1935.3	23.1	B2/2500		
BH	(60°-80°)	971.4	11.6	B2/1000		G1/1800
BVH	(80°-90°)	71.5	0.9			G1/100
UL	(90°-100°)	46.1	0.6		U2/50	
UH	(100°-180°)	853.9	10.2		U4/1000	

BUG Rating: B2-U4-G1
Type V Short



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REPORT NUMBER: P821382
CATALOG NUMBER: TT-D4-750-24VDC-CQ-UPL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3
2.5°	1866.5	1872.5	1870.1	1870.1	1870.1	1870.1	1867.7	1870.1	1870.1	1871.3	1870.1
5°	1867.7	1866.5	1866.5	1867.7	1867.7	1868.9	1866.5	1867.7	1868.9	1868.9	1870.1
7.5°	1864.1	1865.3	1862.9	1865.3	1862.9	1864.1	1864.1	1865.3	1864.1	1865.3	1867.7
10°	1857.0	1858.2	1857.0	1857.0	1857.0	1859.4	1854.6	1858.2	1857.0	1858.2	1857.0
12.5°	1843.9	1849.9	1847.5	1849.9	1849.9	1849.9	1846.3	1848.7	1849.9	1849.9	1849.9
15°	1837.9	1839.1	1835.6	1840.3	1841.5	1842.7	1837.9	1840.3	1840.3	1841.5	1842.7
17.5°	1824.9	1830.8	1829.6	1833.2	1832.0	1835.6	1834.4	1833.2	1832.0	1834.4	1832.0
20°	1815.3	1821.3	1820.1	1823.7	1824.9	1828.4	1824.9	1824.9	1821.3	1822.5	1826.0
22.5°	1805.8	1808.2	1808.2	1811.8	1811.8	1815.3	1811.8	1810.6	1810.6	1809.4	1812.9
25°	1790.3	1791.5	1790.3	1793.9	1796.3	1798.7	1797.5	1795.1	1793.9	1793.9	1792.7
27.5°	1765.3	1770.1	1772.5	1777.2	1778.4	1782.0	1777.2	1777.2	1774.9	1772.5	1773.7
30°	1746.3	1748.7	1748.7	1759.4	1759.4	1765.3	1759.4	1758.2	1757.0	1755.8	1753.4
32.5°	1728.4	1732.0	1735.6	1743.9	1749.9	1752.2	1748.7	1746.3	1740.3	1736.8	1735.6
35°	1714.1	1715.3	1722.5	1734.4	1741.5	1747.5	1742.7	1736.8	1728.4	1722.5	1727.2
37.5°	1703.4	1704.6	1715.3	1730.8	1743.9	1748.7	1741.5	1732.0	1718.9	1711.8	1709.4
40°	1693.9	1701.1	1713.0	1734.4	1748.7	1755.8	1749.9	1736.8	1717.7	1703.4	1702.2
42.5°	1689.1	1692.7	1710.6	1735.6	1755.8	1765.3	1757.0	1739.1	1715.3	1698.7	1697.5
45°	1677.2	1688.0	1704.6	1736.8	1759.4	1771.3	1759.4	1736.8	1708.2	1689.1	1685.6
47.5°	1667.7	1671.3	1697.5	1734.4	1761.8	1771.3	1759.4	1730.8	1695.1	1670.1	1667.7
50°	1645.1	1653.4	1679.6	1718.9	1751.0	1760.6	1746.3	1708.2	1667.7	1640.3	1635.6
52.5°	1610.6	1617.7	1648.7	1697.5	1728.4	1739.1	1717.7	1677.2	1629.6	1596.3	1596.3
55°	1557.0	1567.7	1599.9	1649.9	1689.1	1698.7	1673.7	1630.8	1577.3	1543.9	1542.7
57.5°	1492.7	1499.9	1534.4	1589.2	1627.2	1641.5	1616.5	1568.9	1515.4	1476.1	1472.5
60°	1409.4	1418.9	1455.8	1508.2	1547.5	1559.4	1538.0	1490.4	1435.6	1393.9	1393.9
62.5°	1309.4	1320.1	1357.0	1410.6	1451.1	1468.9	1439.2	1393.9	1336.8	1296.3	1292.8
65°	1192.8	1202.3	1235.6	1291.6	1333.2	1346.3	1323.7	1276.1	1221.3	1183.2	1179.7
67.5°	1061.8	1074.9	1108.2	1155.9	1191.6	1208.2	1194.0	1151.1	1094.0	1054.7	1051.1
70°	920.2	929.7	955.9	999.9	1040.4	1052.3	1030.9	1002.3	948.7	913.0	908.3
72.5°	769.0	777.3	798.7	840.4	869.0	884.5	872.5	835.6	792.8	763.0	767.8
75°	616.6	615.4	639.2	669.0	695.2	705.9	697.6	673.8	634.5	609.5	608.3
77.5°	464.2	476.2	484.5	509.5	530.9	539.2	527.3	508.3	478.5	458.3	461.9
80°	326.2	319.0	334.5	350.0	364.3	372.6	365.4	354.7	334.5	319.0	316.6
82.5°	200.0	194.0	201.2	215.5	225.0	227.4	228.6	215.5	207.1	195.2	197.6
85°	88.1	89.3	95.2	104.8	105.9	107.1	107.1	104.8	95.2	94.0	91.7
87.5°	21.4	21.4	22.6	26.2	26.2	27.4	27.4	23.8	22.6	20.2	21.4
90°	32.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
92.5°	37.6	37.1	37.1	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
95°	42.7	42.7	42.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
97.5°	48.3	48.3	48.3	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
100°	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
102.5°	60.5	60.5	60.5	60.5	60.5	60.5	60.5	61.0	60.5	60.5	60.5
105°	67.1	67.1	67.1	67.1	67.1	67.1	67.1	68.1	67.1	67.1	67.1
107.5°	74.2	74.2	74.7	74.7	74.7	74.7	74.7	75.2	74.7	74.7	74.7
110°	81.3	81.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3

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Scaled Data Report

REPORT NUMBER: P821382
CATALOG NUMBER: TT-D4-750-24VDC-CQ-UPL

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	89.9	*89.9*	90.9	90.9	90.9	90.9	91.4	91.4	90.9	90.9	90.9
115°	98.6	*98.6*	99.6	99.6	99.6	99.6	100.6	100.6	99.6	99.6	99.6
117.5°	108.8	*108.8*	109.2	109.8	109.8	109.8	110.8	110.8	109.8	109.8	109.8
120°	118.9	*118.9*	118.9	119.9	119.9	119.9	121.0	121.0	119.9	119.9	119.9
122.5°	130.6	*130.6*	131.1	131.6	131.6	131.6	132.6	132.6	132.1	132.1	131.6
125°	142.3	*142.3*	143.3	143.3	143.3	143.3	144.3	144.3	144.3	144.3	143.3
127.5°	155.0	*155.0*	156.0	156.0	156.0	156.0	157.0	157.0	157.0	157.0	156.0
130°	167.7	*167.7*	168.7	168.7	168.7	168.7	169.7	169.7	169.7	169.7	168.7
132.5°	180.9	*180.9*	181.4	181.4	181.4	181.9	182.4	182.4	182.4	182.4	181.9
135°	194.1	*194.1*	194.1	194.1	194.1	195.1	195.1	195.1	195.1	195.1	195.1
137.5°	206.8	*206.3*	206.8	206.3	206.8	207.3	207.3	207.3	207.3	207.3	207.3
140°	219.5	*218.5*	219.5	218.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5
142.5°	231.2	*230.7*	231.2	230.2	231.2	231.2	231.2	231.2	231.2	231.2	231.2
145°	242.9	*242.9*	242.9	241.9	242.9	242.9	242.9	242.9	242.9	242.9	242.9
147.5°	255.1	*254.6*	255.1	254.1	255.1	255.1	255.1	255.1	255.1	255.1	255.1
150°	267.3	*266.3*	267.3	266.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3
152.5°	277.0	*276.5*	277.5	276.5	277.0	277.0	277.5	277.0	277.0	277.0	277.0
155°	286.6	*286.6*	287.6	286.6	286.6	286.6	287.6	286.6	286.6	286.6	286.6
157.5°	294.8	*294.8*	295.8	294.8	294.8	294.8	295.8	294.8	294.8	294.8	294.8
160°	302.9	*302.9*	303.9	302.9	302.9	302.9	303.9	302.9	302.9	302.9	302.9
162.5°	309.5	*309.5*	310.5	309.5	309.5	309.5	310.5	309.5	309.5	309.5	309.5
165°	316.1	*316.1*	317.1	316.1	316.1	316.1	317.1	316.1	316.1	316.1	316.1
167.5°	320.2	*320.2*	321.2	320.2	320.2	320.2	321.2	320.2	320.2	320.2	320.2
170°	324.2	*324.2*	325.2	324.2	324.2	324.2	325.2	324.2	324.2	324.2	324.2
172.5°	326.8	*326.8*	327.8	326.8	327.2	326.8	327.8	326.8	326.8	326.8	326.8
175°	329.3	*329.3*	330.3	329.3	330.3	329.3	330.3	329.3	329.3	329.3	329.3
177.5°	330.3	*330.3*	330.8	330.3	330.8	330.3	330.8	330.3	330.3	330.3	330.3
180°	331.3	*331.3*	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3

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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: SP1-2407-176-6

Test Date: 09/26/2024

Luminaire Tested: MEM2-HTN-VA-30-750-U-WQ

Data in this report applies to families of products including MEM2-HTN-VA-30-750-U-WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

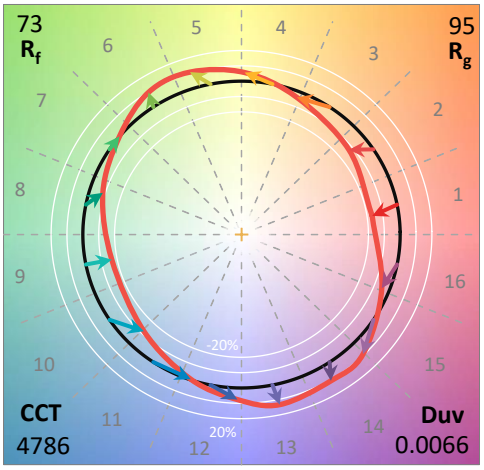
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-176-6
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-30-750-U-WQ**
Description:	EPIC MODERN VISUAL COMFORT 30W WAVESTREAM WIDE

Spectral Parameters

CCT (K):	4786
CIE u':	0.2093
CIE v':	0.4953
Duv:	0.0066
CIE x:	0.3533
CIE y:	0.3716
CIE z:	0.2751
Peak Wavelength (nm):	449
Dominant Wavelength (nm):	570
Purity:	17.53512
Rf:	73
Rg:	94.6

CRI (Ra):	70.9				
R1:	67.8	R9:	-29.8		
R2:	75.1	R10:	40.9		
R3:	80.6	R11:	67.4		
R4:	71.6	R12:	35.3		
R5:	67.8	R13:	68.5		
R6:	65.4	R14:	89.0		
R7:	82.0	R15:	60.9		
R8:	57.0				



Test Conditions

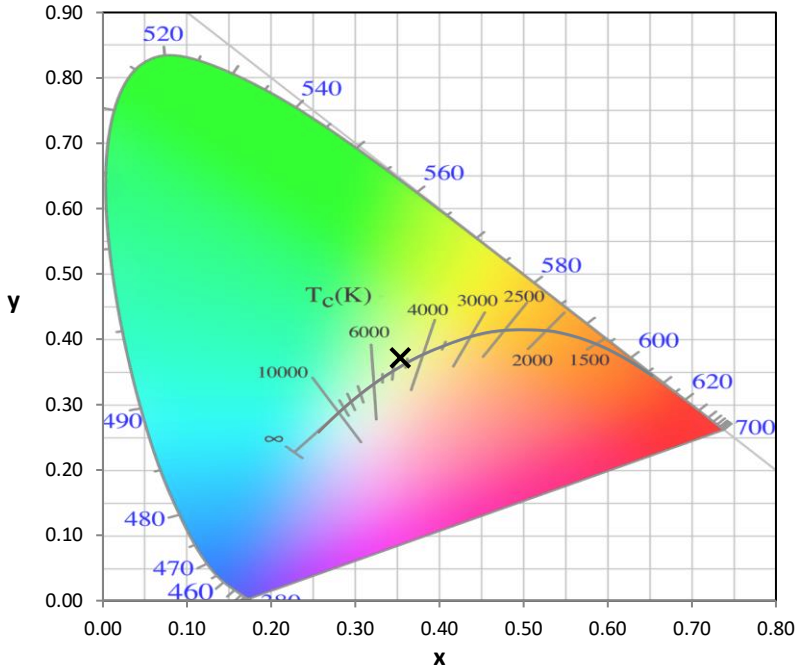
Stabilization Time:	45M
Operation Time:	1H 45M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-176-6

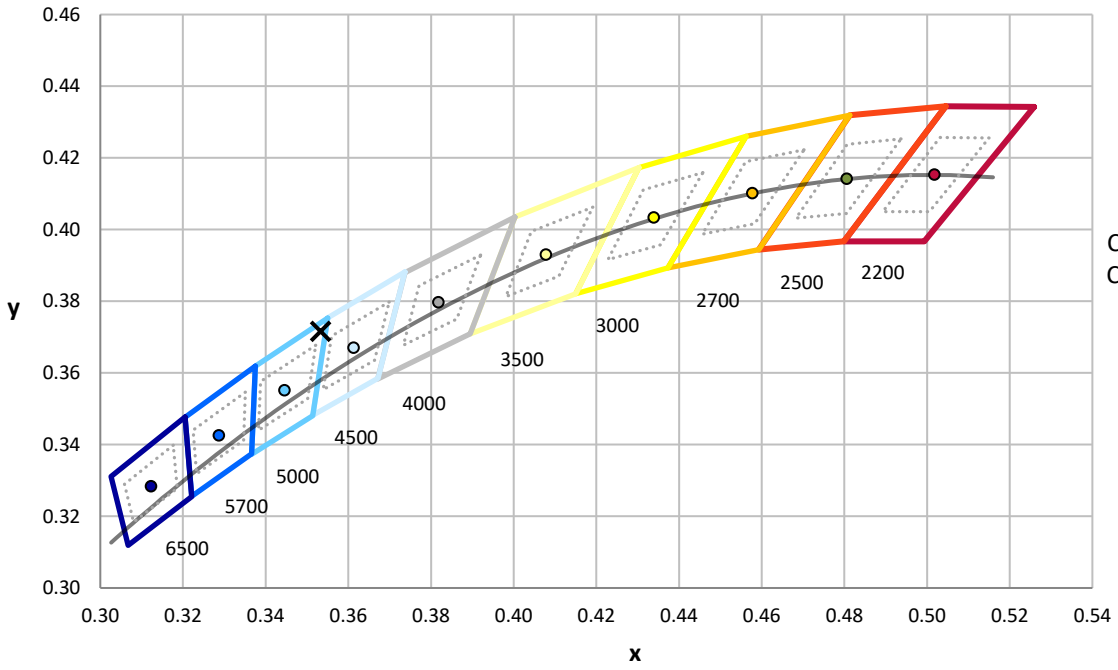
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-176-6

CIE 1931 Chromaticity Diagram



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

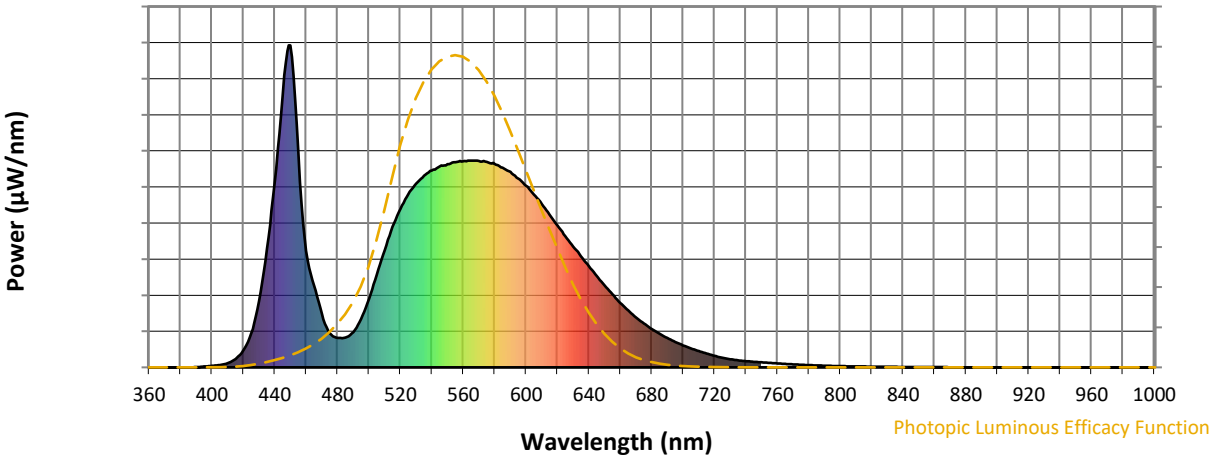


CCT = 4786K
CIE x = 0.3533
CIE y = 0.3716
Duv = 0.0066

Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-176-6

Photopic Flux vs. Wavelength

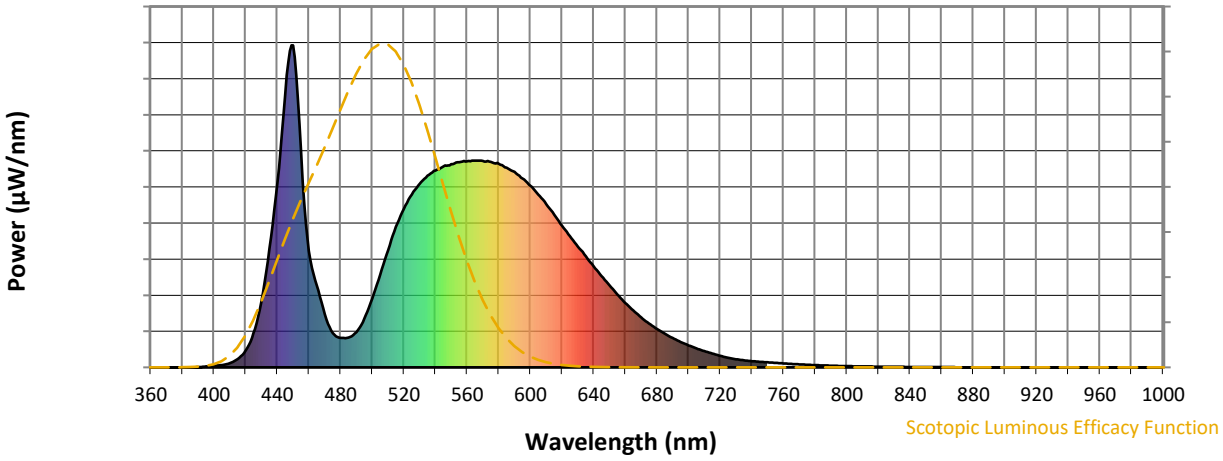


Photopic Lumens: NR

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	110	NR	620	440	NR	750	16	NR	880	0	NR
365	0	NR	495	150	NR	625	407	NR	755	14	NR	885	0	NR
370	0	NR	500	213	NR	630	375	NR	760	12	NR	890	0	NR
375	0	NR	505	288	NR	635	345	NR	765	11	NR	895	0	NR
380	0	NR	510	364	NR	640	314	NR	770	9	NR	900	0	NR
385	0	NR	515	436	NR	645	283	NR	775	8	NR	905	0	NR
390	1	NR	520	492	NR	650	254	NR	780	7	NR	910	0	NR
395	3	NR	525	537	NR	655	227	NR	785	6	NR	915	0	NR
400	5	NR	530	570	NR	660	200	NR	790	5	NR	920	0	NR
405	7	NR	535	595	NR	665	177	NR	795	4	NR	925	0	NR
410	13	NR	540	611	NR	670	155	NR	800	4	NR	930	0	NR
415	25	NR	545	624	NR	675	136	NR	805	3	NR	935	0	NR
420	52	NR	550	631	NR	680	119	NR	810	3	NR	940	0	NR
425	106	NR	555	637	NR	685	104	NR	815	3	NR	945	0	NR
430	204	NR	560	640	NR	690	91	NR	820	2	NR	950	0	NR
435	369	NR	565	642	NR	695	79	NR	825	2	NR	955	0	NR
440	573	NR	570	641	NR	700	68	NR	830	2	NR	960	0	NR
445	844	NR	575	638	NR	705	59	NR	835	2	NR	965	0	NR
450	999	NR	580	632	NR	710	50	NR	840	1	NR	970	0	NR
455	668	NR	585	620	NR	715	43	NR	845	1	NR	975	0	NR
460	361	NR	590	607	NR	720	36	NR	850	1	NR	980	0	NR
465	255	NR	595	586	NR	725	30	NR	855	1	NR	985	0	NR
470	165	NR	600	564	NR	730	25	NR	860	1	NR	990	0	NR
475	106	NR	605	537	NR	735	22	NR	865	1	NR	995	0	NR
480	91	NR	610	507	NR	740	19	NR	870	0	NR	1000	0	NR
485	93	NR	615	474	NR	745	17	NR	875	0	NR			

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Scotopic Flux vs. Wavelength

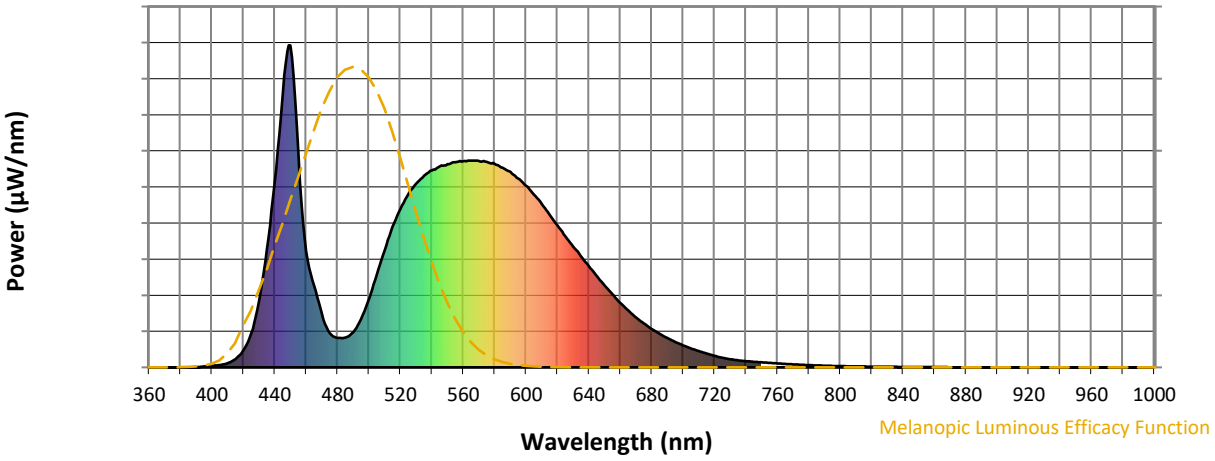


Scotopic Lumens: NR **S/P: 1.69**

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	110	NR	620	440	NR	750	16	NR	880	0	NR
365	0	NR	495	150	NR	625	407	NR	755	14	NR	885	0	NR
370	0	NR	500	213	NR	630	375	NR	760	12	NR	890	0	NR
375	0	NR	505	288	NR	635	345	NR	765	11	NR	895	0	NR
380	0	NR	510	364	NR	640	314	NR	770	9	NR	900	0	NR
385	0	NR	515	436	NR	645	283	NR	775	8	NR	905	0	NR
390	1	NR	520	492	NR	650	254	NR	780	7	NR	910	0	NR
395	3	NR	525	537	NR	655	227	NR	785	6	NR	915	0	NR
400	5	NR	530	570	NR	660	200	NR	790	5	NR	920	0	NR
405	7	NR	535	595	NR	665	177	NR	795	4	NR	925	0	NR
410	13	NR	540	611	NR	670	155	NR	800	4	NR	930	0	NR
415	25	NR	545	624	NR	675	136	NR	805	3	NR	935	0	NR
420	52	NR	550	631	NR	680	119	NR	810	3	NR	940	0	NR
425	106	NR	555	637	NR	685	104	NR	815	3	NR	945	0	NR
430	204	NR	560	640	NR	690	91	NR	820	2	NR	950	0	NR
435	369	NR	565	642	NR	695	79	NR	825	2	NR	955	0	NR
440	573	NR	570	641	NR	700	68	NR	830	2	NR	960	0	NR
445	844	NR	575	638	NR	705	59	NR	835	2	NR	965	0	NR
450	999	NR	580	632	NR	710	50	NR	840	1	NR	970	0	NR
455	668	NR	585	620	NR	715	43	NR	845	1	NR	975	0	NR
460	361	NR	590	607	NR	720	36	NR	850	1	NR	980	0	NR
465	255	NR	595	586	NR	725	30	NR	855	1	NR	985	0	NR
470	165	NR	600	564	NR	730	25	NR	860	1	NR	990	0	NR
475	106	NR	605	537	NR	735	22	NR	865	1	NR	995	0	NR
480	91	NR	610	507	NR	740	19	NR	870	0	NR	1000	0	NR
485	93	NR	615	474	NR	745	17	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.36**

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	110	NR	620	440	NR	750	16	NR	880	0	NR
365	0	NR	495	150	NR	625	407	NR	755	14	NR	885	0	NR
370	0	NR	500	213	NR	630	375	NR	760	12	NR	890	0	NR
375	0	NR	505	288	NR	635	345	NR	765	11	NR	895	0	NR
380	0	NR	510	364	NR	640	314	NR	770	9	NR	900	0	NR
385	0	NR	515	436	NR	645	283	NR	775	8	NR	905	0	NR
390	1	NR	520	492	NR	650	254	NR	780	7	NR	910	0	NR
395	3	NR	525	537	NR	655	227	NR	785	6	NR	915	0	NR
400	5	NR	530	570	NR	660	200	NR	790	5	NR	920	0	NR
405	7	NR	535	595	NR	665	177	NR	795	4	NR	925	0	NR
410	13	NR	540	611	NR	670	155	NR	800	4	NR	930	0	NR
415	25	NR	545	624	NR	675	136	NR	805	3	NR	935	0	NR
420	52	NR	550	631	NR	680	119	NR	810	3	NR	940	0	NR
425	106	NR	555	637	NR	685	104	NR	815	3	NR	945	0	NR
430	204	NR	560	640	NR	690	91	NR	820	2	NR	950	0	NR
435	369	NR	565	642	NR	695	79	NR	825	2	NR	955	0	NR
440	573	NR	570	641	NR	700	68	NR	830	2	NR	960	0	NR
445	844	NR	575	638	NR	705	59	NR	835	2	NR	965	0	NR
450	999	NR	580	632	NR	710	50	NR	840	1	NR	970	0	NR
455	668	NR	585	620	NR	715	43	NR	845	1	NR	975	0	NR
460	361	NR	590	607	NR	720	36	NR	850	1	NR	980	0	NR
465	255	NR	595	586	NR	725	30	NR	855	1	NR	985	0	NR
470	165	NR	600	564	NR	730	25	NR	860	1	NR	990	0	NR
475	106	NR	605	537	NR	735	22	NR	865	1	NR	995	0	NR
480	91	NR	610	507	NR	740	19	NR	870	0	NR	1000	0	NR
485	93	NR	615	474	NR	745	17	NR	875	0	NR			

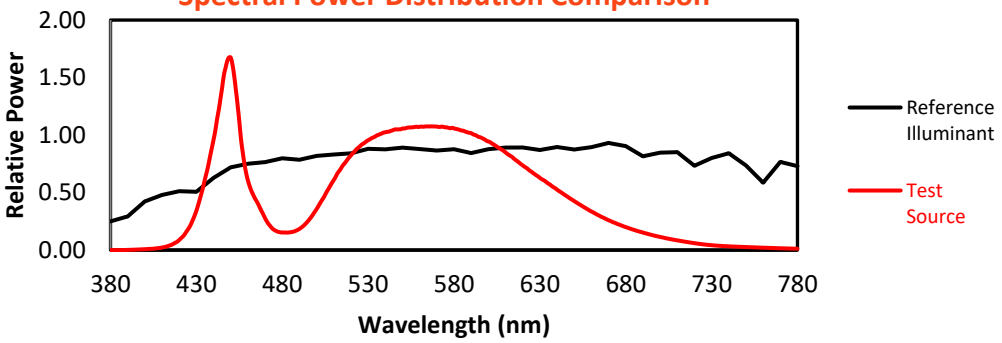
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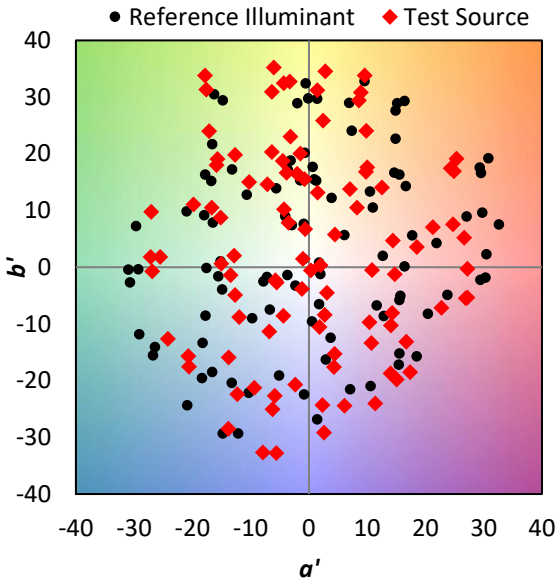
Summary

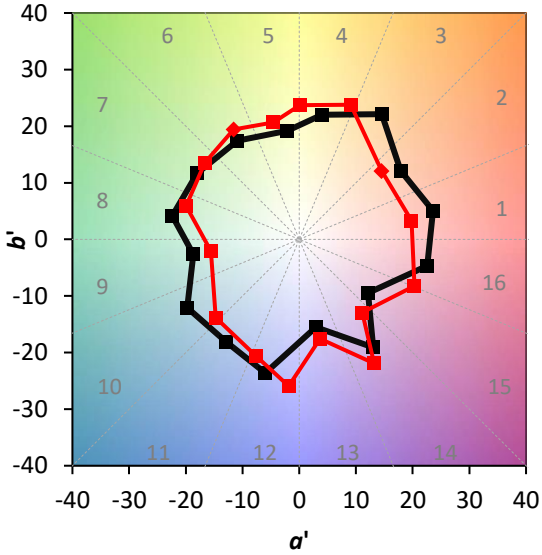
R_f = 73
R_g = 94.6
CIE R_a = 70.9
R_9 = -29.8

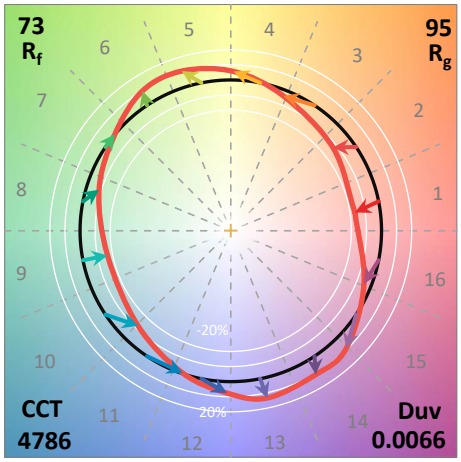
Spectral Power Distribution Comparison

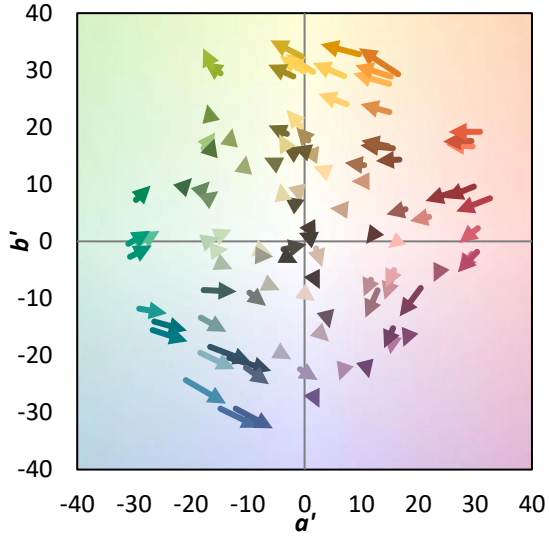


Color Vector Graphics







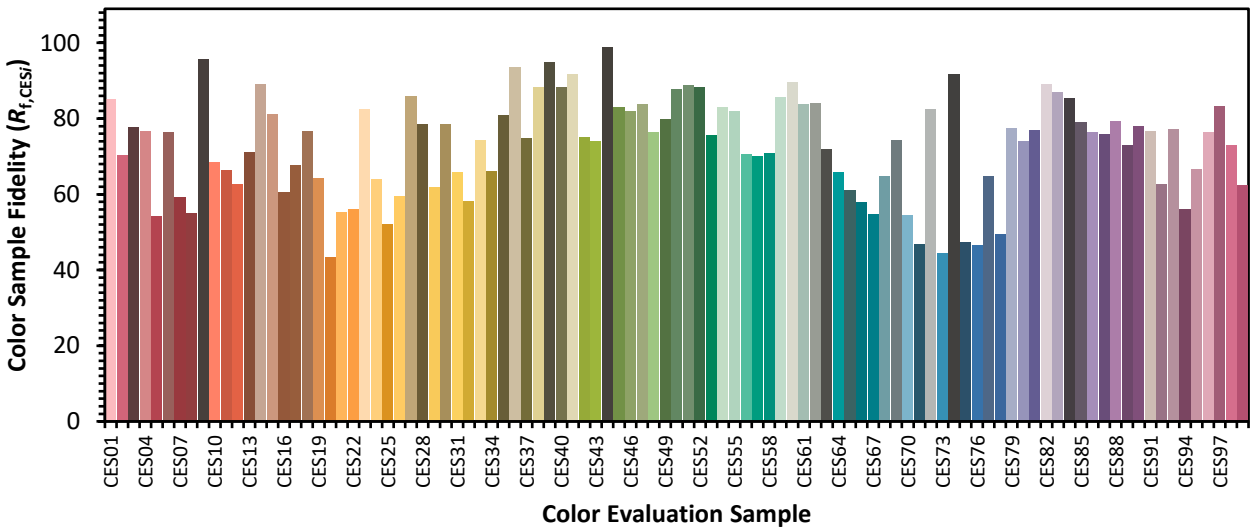


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Individual Sample Fidelity Index ($R_{f,i}$)

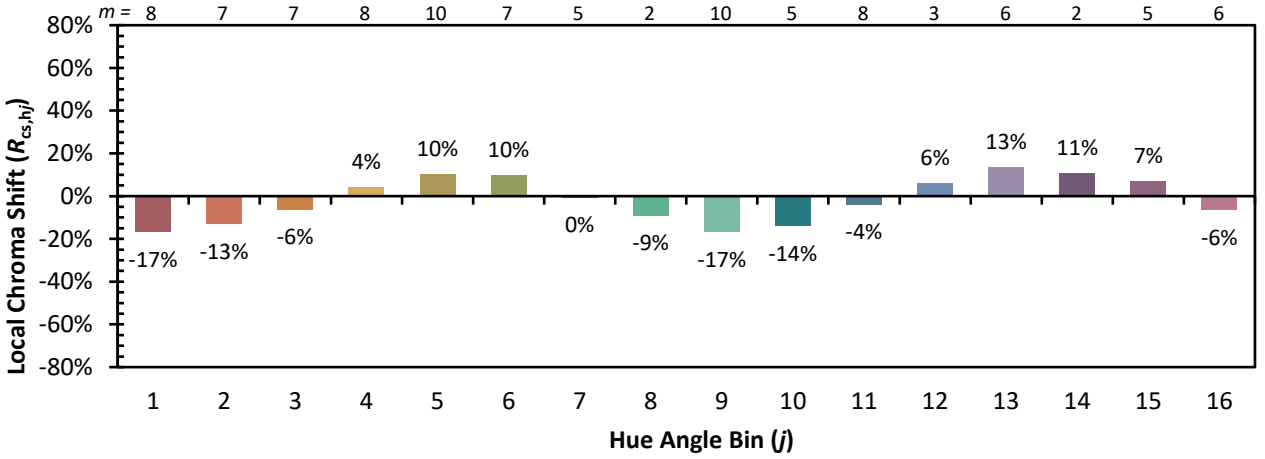
CES01 = 85	CES26 = 60	CES51 = 89	CES76 = 46
CES02 = 59	CES27 = 86	CES52 = 88	CES77 = 65
CES03 = 30	CES28 = 78	CES53 = 76	CES78 = 49
CES04 = 69	CES29 = 62	CES54 = 83	CES79 = 78
CES05 = 46	CES30 = 79	CES55 = 82	CES80 = 74
CES06 = 50	CES31 = 66	CES56 = 71	CES81 = 77
CES07 = 39	CES32 = 58	CES57 = 70	CES82 = 89
CES08 = 38	CES33 = 74	CES58 = 71	CES83 = 87
CES09 = 29	CES34 = 66	CES59 = 86	CES84 = 86
CES10 = 72	CES35 = 81	CES60 = 90	CES85 = 79
CES11 = 56	CES36 = 94	CES61 = 84	CES86 = 76
CES12 = 61	CES37 = 75	CES62 = 84	CES87 = 76
CES13 = 41	CES38 = 88	CES63 = 72	CES88 = 79
CES14 = 74	CES39 = 95	CES64 = 66	CES89 = 73
CES15 = 70	CES40 = 88	CES65 = 61	CES90 = 78
CES16 = 46	CES41 = 92	CES66 = 58	CES91 = 77
CES17 = 49	CES42 = 75	CES67 = 55	CES92 = 63
CES18 = 55	CES43 = 74	CES68 = 65	CES93 = 77
CES19 = 71	CES44 = 99	CES69 = 74	CES94 = 56
CES20 = 64	CES45 = 83	CES70 = 55	CES95 = 67
CES21 = 85	CES46 = 82	CES71 = 47	CES96 = 76
CES22 = 77	CES47 = 84	CES72 = 82	CES97 = 83
CES23 = 91	CES48 = 76	CES73 = 44	CES98 = 73
CES24 = 90	CES49 = 80	CES74 = 92	CES99 = 62
CES25 = 71	CES50 = 88	CES75 = 47	

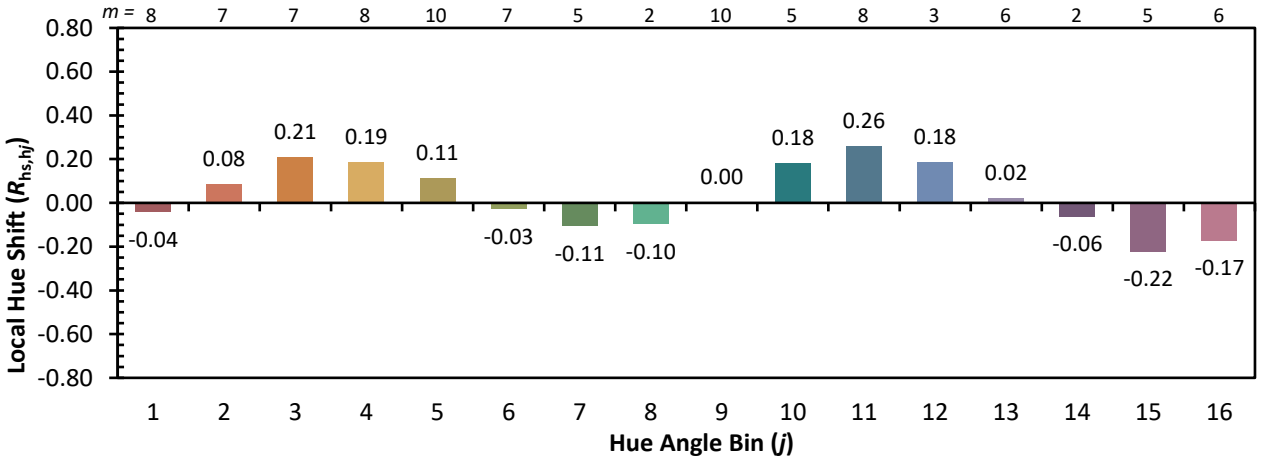


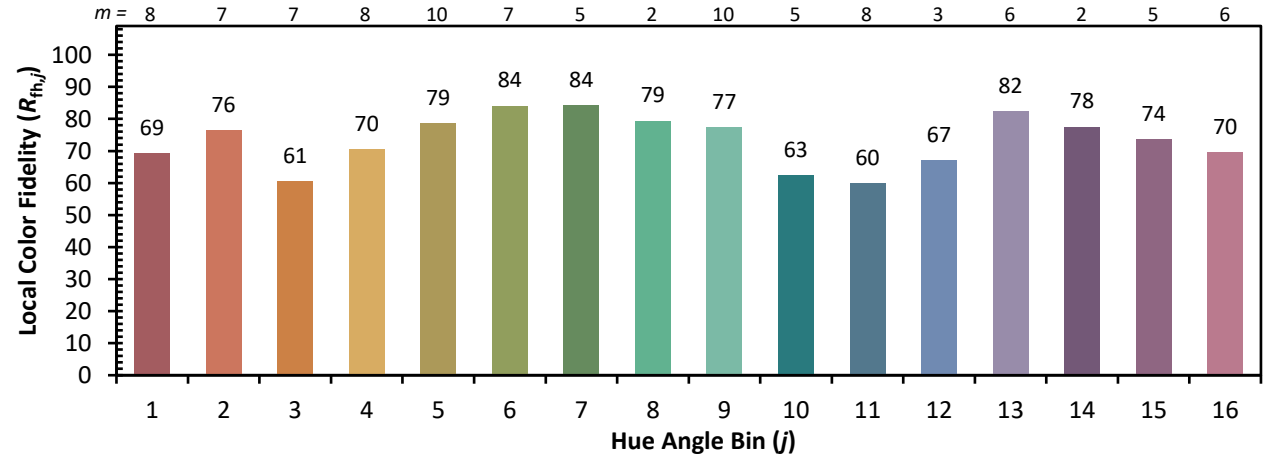
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Color Rendition by Hue-Angle Bin



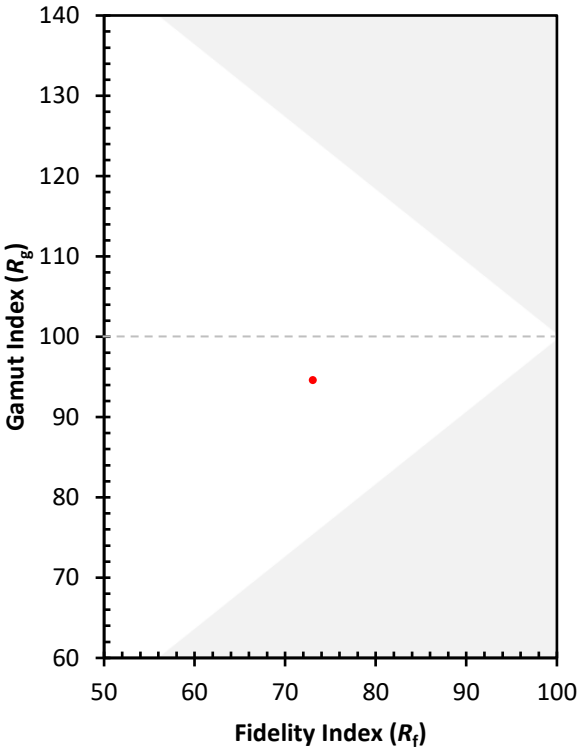


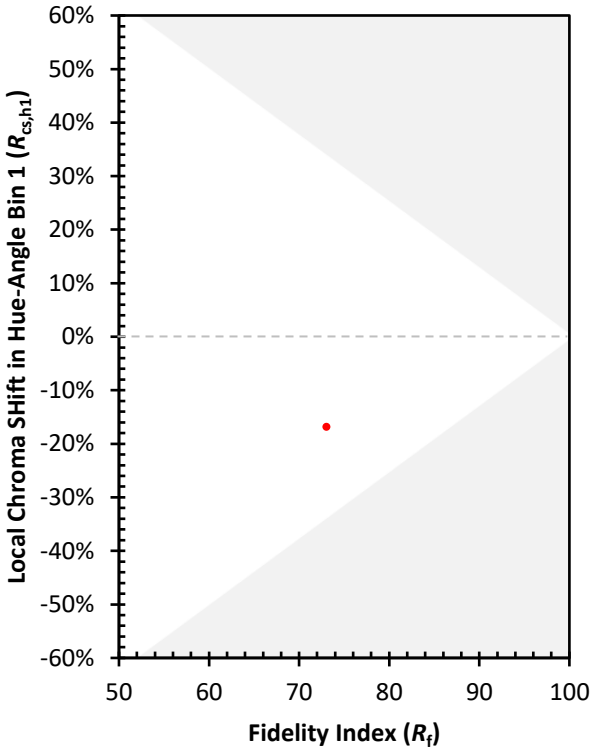


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Measure Comparisons





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