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: P821234

Luminaire Tested: **TT-D4-735-24VDC-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:	P821234
	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-D4-735-24VDC-CQ-UPL
Description:	TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
	3500K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7905.7 lumens
Efficiency:	N/A
Efficacy:	138.7 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification:	Type V - Short
BUG Rating:	B2 - U4 - G1

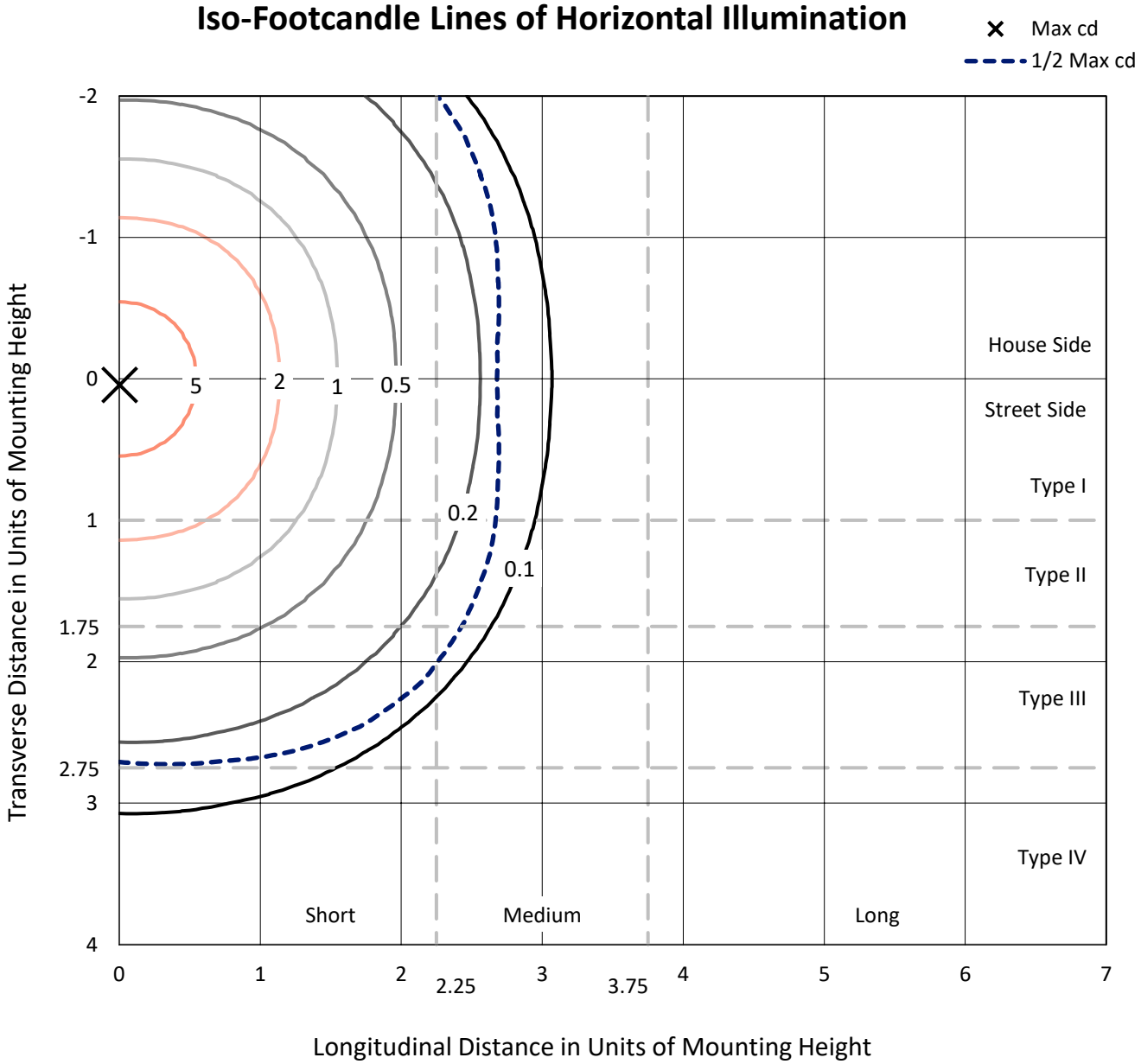
Input Watts (W):	57
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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REPORT NUMBER: P821234
CATALOG NUMBER: TT-D4-735-24VDC-CQ-UPL

Iso-Footcandle Lines of Horizontal Illumination



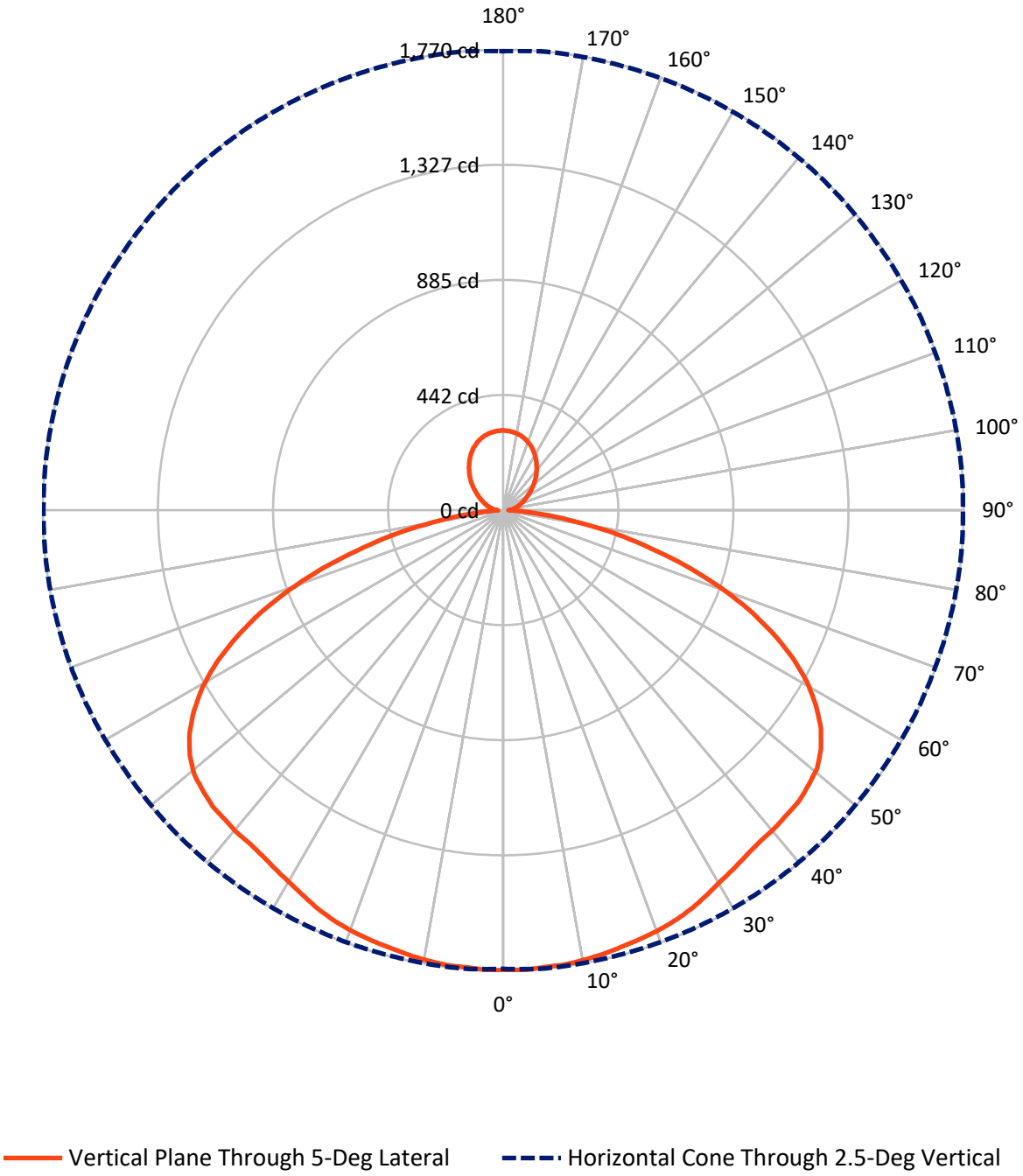
Based on 15 foot mounting height. Maximum calculated value = 7.9 fc
Type V - Short - N/A

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REPORT NUMBER: P821234
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Luminous Intensity Polar Plot



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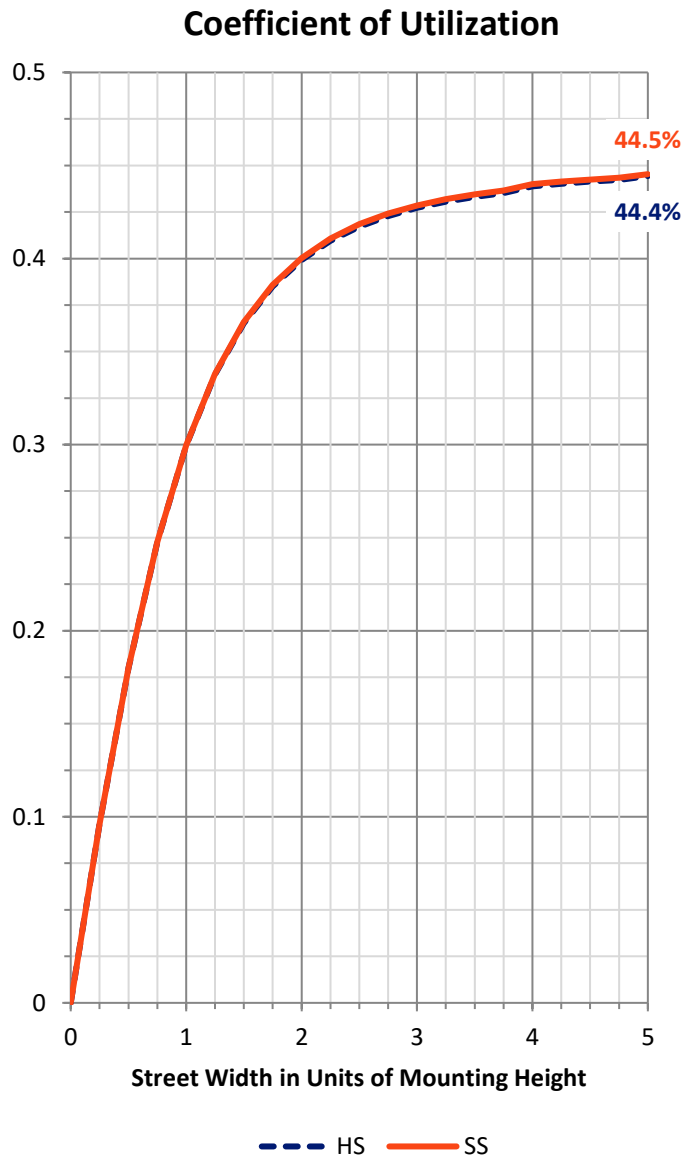
REPORT NUMBER: P821234
CATALOG NUMBER: TT-D4-735-24VDC-CQ-UPL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3537.0	415.9	3952.9
	% Fixture	44.7	5.3	50.0
Street Side	Lumens	3537.0	415.9	3952.9
	% Fixture	44.7	5.3	50.0
Total	Lumens	7074.0	831.7	7905.7
	% Fixture	89.5	10.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.2	2.1
10°-20°	492.7	6.2
20°-30°	783.5	9.9
30°-40°	1030.6	13.0
40°-50°	1261.4	16.0
50°-60°	1366.3	17.3
60°-70°	1175.4	14.9
70°-80°	660.8	8.4
80°-90°	135.0	1.7
90°-100°	42.6	0.5
100°-110°	66.0	0.8
110°-120°	91.9	1.2
120°-130°	119.0	1.5
130°-140°	138.7	1.8
140°-150°	140.5	1.8
150°-160°	121.9	1.5
160°-170°	82.2	1.0
170°-180°	28.9	0.4
0°-90°	7074.0	89.5
0°-180°	7905.7	100.0



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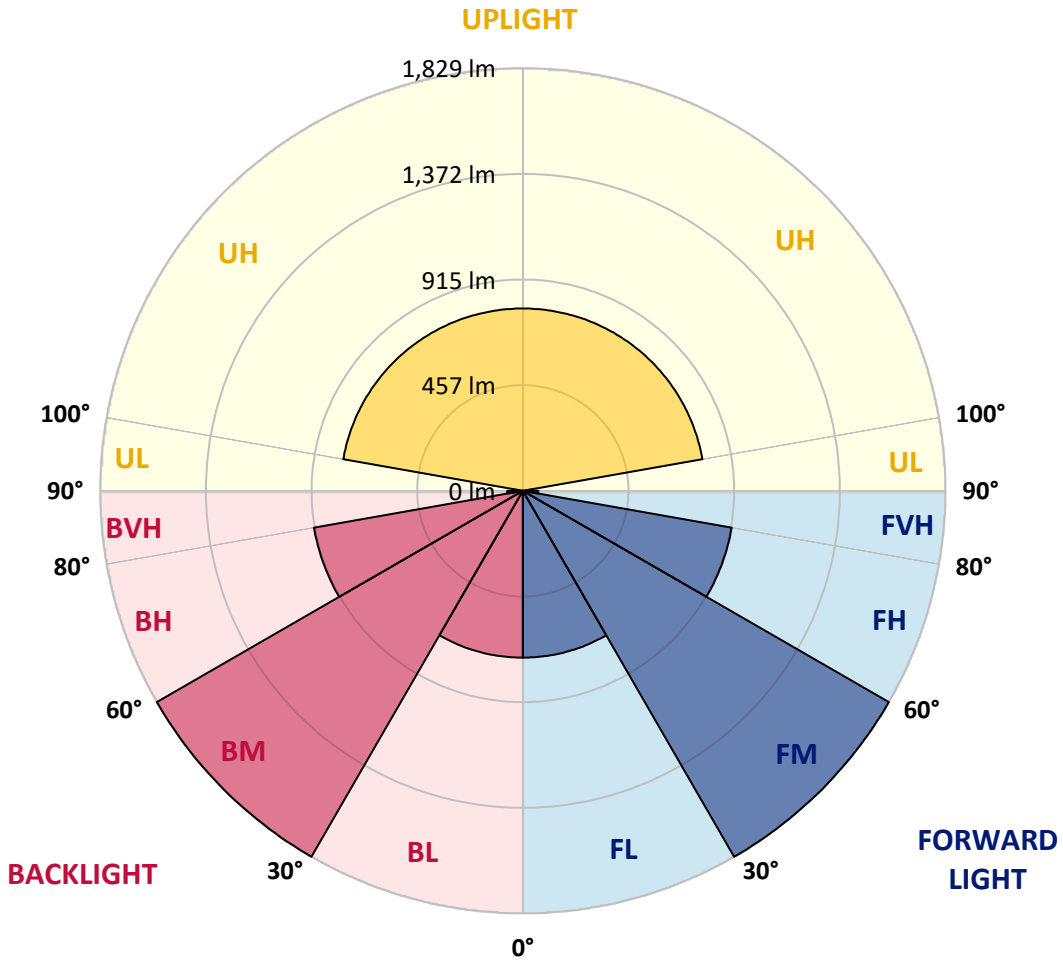
Scaled Data Report

REPORT NUMBER: P821234
CATALOG NUMBER: TT-D4-735-24VDC-CQ-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	722.2	9.1			
FM	(30°-60°)	1829.2	23.1			
FH	(60°-80°)	918.1	11.6			G1/1800
FVH	(80°-90°)	67.5	0.9			G1/100
BL	(0°-30°)	722.2	9.1	B2/1000		
BM	(30°-60°)	1829.2	23.1	B2/2500		
BH	(60°-80°)	918.1	11.6	B2/1000		G1/1800
BVH	(80°-90°)	67.5	0.9			G1/100
UL	(90°-100°)	42.6	0.5		U2/50	
UH	(100°-180°)	789.1	10.0		U4/1000	

BUG Rating: B2-U4-G1
Type V Short



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REPORT NUMBER: P821234
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1768.7	*1768.7*	1768.7	1768.7	1768.7	1768.7	1768.7	1768.7	1768.7	1768.7	1768.7
2.5°	*1764.2*	*1769.8*	*1767.6*	*1767.6*	*1767.6*	*1767.6*	*1765.3*	*1767.6*	*1767.6*	*1768.7*	*1767.6*
5°	1765.3	*1764.2*	1764.2	1765.3	1765.3	1766.5	1764.2	1765.3	1766.5	1766.5	1767.6
7.5°	1762.0	*1763.1*	1760.8	1763.1	1760.8	1762.0	1762.0	1763.1	1762.0	1763.1	1765.3
10°	1755.2	*1756.3*	1755.2	1755.2	1755.2	1757.5	1753.0	1756.3	1755.2	1756.3	1755.2
12.5°	1742.8	*1748.5*	1746.2	1748.5	1748.5	1748.5	1745.1	1747.3	1748.5	1748.5	1748.5
15°	1737.2	*1738.3*	1735.0	1739.5	1740.6	1741.7	1737.2	1739.5	1739.5	1740.6	1741.7
17.5°	1724.8	*1730.5*	1729.3	1732.7	1731.6	1735.0	1733.8	1732.7	1731.6	1733.8	1731.6
20°	1715.8	*1721.5*	1720.3	1723.7	1724.8	1728.2	1724.8	1724.8	1721.5	1722.6	1726.0
22.5°	1706.8	*1709.1*	1709.1	1712.5	1712.5	1715.8	1712.5	1711.3	1711.3	1710.2	1713.6
25°	1692.2	*1693.3*	1692.2	1695.6	1697.8	1700.1	1698.9	1696.7	1695.6	1695.6	1694.4
27.5°	1668.6	*1673.1*	1675.3	1679.8	1680.9	1684.3	1679.8	1679.8	1677.6	1675.3	1676.4
30°	1650.6	*1652.8*	1652.8	1662.9	1662.9	1668.6	1662.9	1661.8	1660.7	1659.6	1657.3
32.5°	1633.7	*1637.1*	1640.4	1648.3	1653.9	1656.2	1652.8	1650.6	1644.9	1641.6	1640.4
35°	1620.2	*1621.3*	1628.1	1639.3	1646.1	1651.7	1647.2	1641.6	1633.7	1628.1	1632.6
37.5°	1610.1	*1611.2*	1621.3	1635.9	1648.3	1652.8	1646.1	1637.1	1624.7	1617.9	1615.7
40°	1601.1	*1607.8*	1619.1	1639.3	1652.8	1659.6	1653.9	1641.6	1623.6	1610.1	1608.9
42.5°	1596.6	*1599.9*	1616.8	1640.4	1659.6	1668.6	1660.7	1643.8	1621.3	1605.6	1604.4
45°	1585.3	*1595.4*	1611.2	1641.6	1662.9	1674.2	1662.9	1641.6	1614.6	1596.6	1593.2
47.5°	1576.3	*1579.7*	1604.4	1639.3	1665.2	1674.2	1662.9	1635.9	1602.2	1578.6	1576.3
50°	1554.9	*1562.8*	1587.6	1624.7	1655.1	1664.1	1650.6	1614.6	1576.3	1550.4	1545.9
52.5°	1522.3	*1529.1*	1558.3	1604.4	1633.7	1643.8	1623.6	1585.3	1540.3	1508.8	1508.8
55°	1471.7	*1481.8*	1512.2	1559.4	1596.6	1605.6	1581.9	1541.4	1490.8	1459.3	1458.2
57.5°	1410.9	*1417.7*	1450.3	1502.1	1538.1	1551.6	1527.9	1482.9	1432.3	1395.2	1391.8
60°	1332.2	*1341.2*	1376.0	1425.5	1462.7	1473.9	1453.7	1408.7	1356.9	1317.5	1317.5
62.5°	1237.6	*1247.8*	1282.7	1333.3	1371.5	1388.4	1360.3	1317.5	1263.5	1225.3	1221.9
65°	1127.4	*1136.4*	1167.9	1220.8	1260.1	1272.5	1251.1	1206.1	1154.4	1118.4	1115.0
67.5°	1003.6	*1016.0*	1047.5	1092.5	1126.3	1142.0	1128.5	1088.0	1034.0	996.9	993.5
70°	869.7	*878.7*	903.5	945.1	983.4	994.6	974.4	947.4	896.7	863.0	858.5
72.5°	726.8	*734.7*	755.0	794.3	821.3	836.0	824.7	789.8	749.3	721.2	725.7
75°	582.8	*581.7*	604.2	632.3	657.1	667.2	659.3	636.8	599.7	576.1	574.9
77.5°	438.8	*450.1*	457.9	481.6	501.8	509.7	498.4	480.4	452.3	433.2	436.6
80°	308.3	*301.5*	316.2	330.8	344.3	352.2	345.4	335.3	316.2	301.5	299.3
82.5°	189.0	*183.4*	190.1	203.6	212.6	214.9	216.0	203.6	195.8	184.5	186.8
85°	83.3	*84.4*	90.0	99.0	100.1	101.3	101.3	99.0	90.0	88.9	86.6
87.5°	20.3	*20.3*	21.4	24.8	24.8	25.9	25.9	22.5	21.4	19.1	20.3
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: P821234
CATALOG NUMBER: TT-D4-735-24VDC-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: SP1-2407-176-4

Test Date: 09/24/2024

Luminaire Tested: MEM2-HTN-VA-30-735-U-WQ

Data in this report applies to families of products including MEM2-HTN-VA-30-735-U-WQ

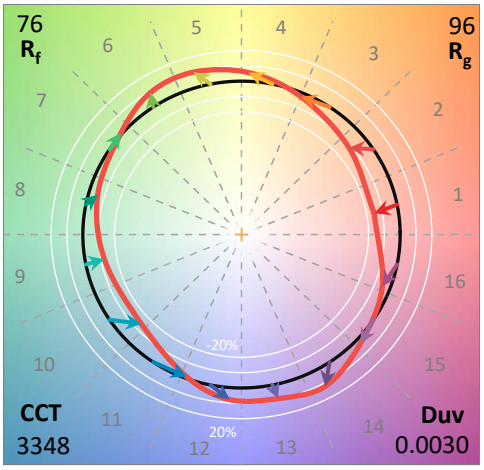
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Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-176-4
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-30-735-U-WQ**
Description:	EPIC MODERN VISUAL COMFORT 30W WAVESTREAM WIDE

Spectral Parameters

CCT (K):	3348	CRI (Ra):	73.4		
CIE u':	0.2384	R1:	70.8	R9:	-19.2
CIE v':	0.5184	R2:	79.9	R10:	52.5
Duv:	0.0030	R3:	87.6	R11:	68.0
CIE x:	0.4177	R4:	72.6	R12:	42.6
CIE y:	0.4036	R5:	69.3	R13:	72.0
CIE z:	0.1787	R6:	71.3	R14:	92.6
Peak Wavelength (nm):	593	R7:	82.1	R15:	63.8
Dominant Wavelength (nm):	580	R8:	53.3		
Purity:	46.5223				
Rf:	75.8				
Rg:	95.8				



Test Conditions

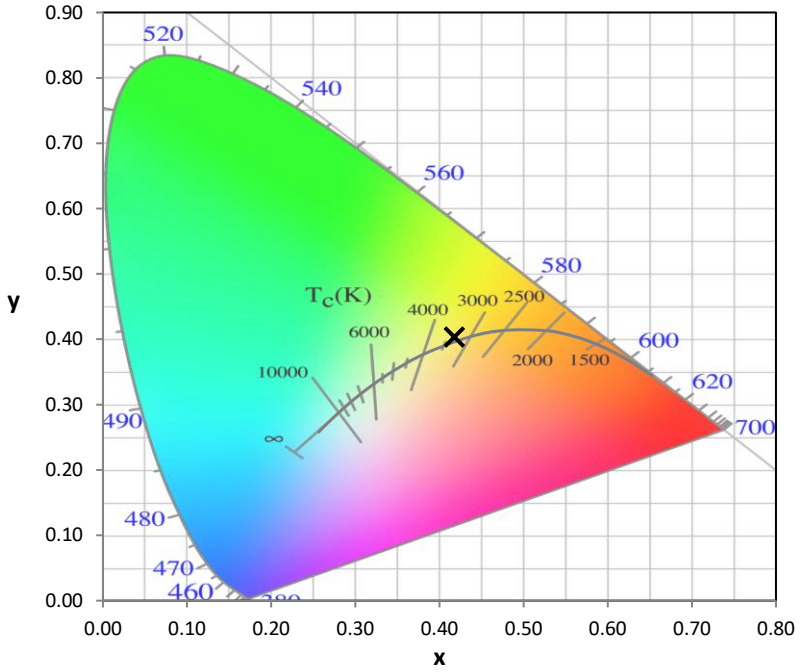
Stabilization Time:	30M
Operation Time:	1H 30M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-176-4

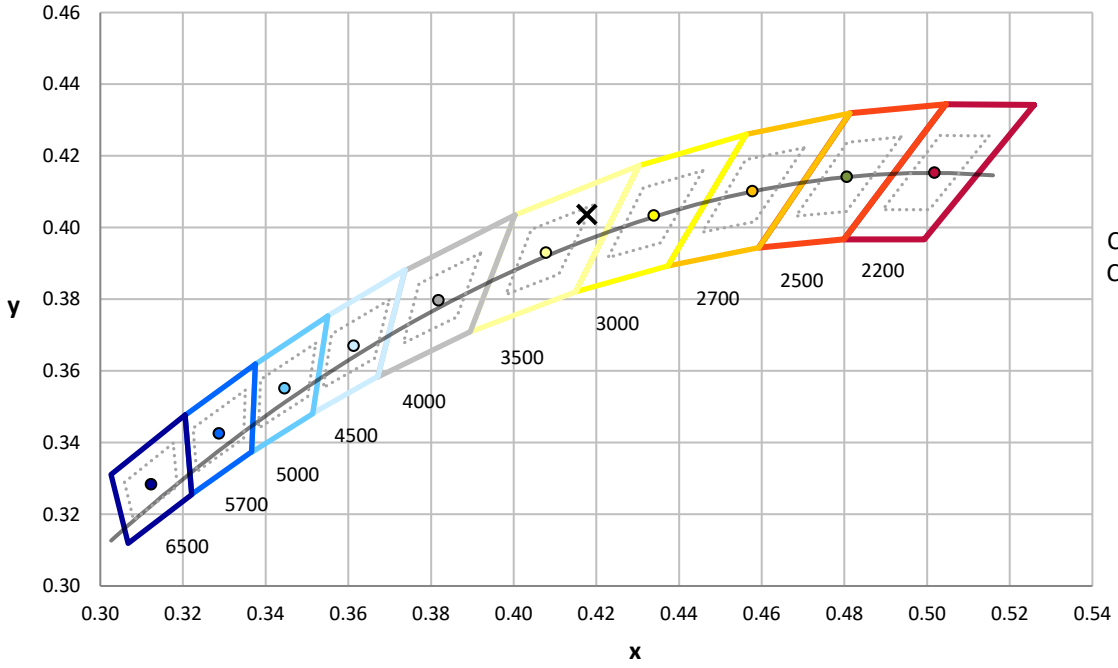
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-176-4

CIE 1931 Chromaticity Diagram



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

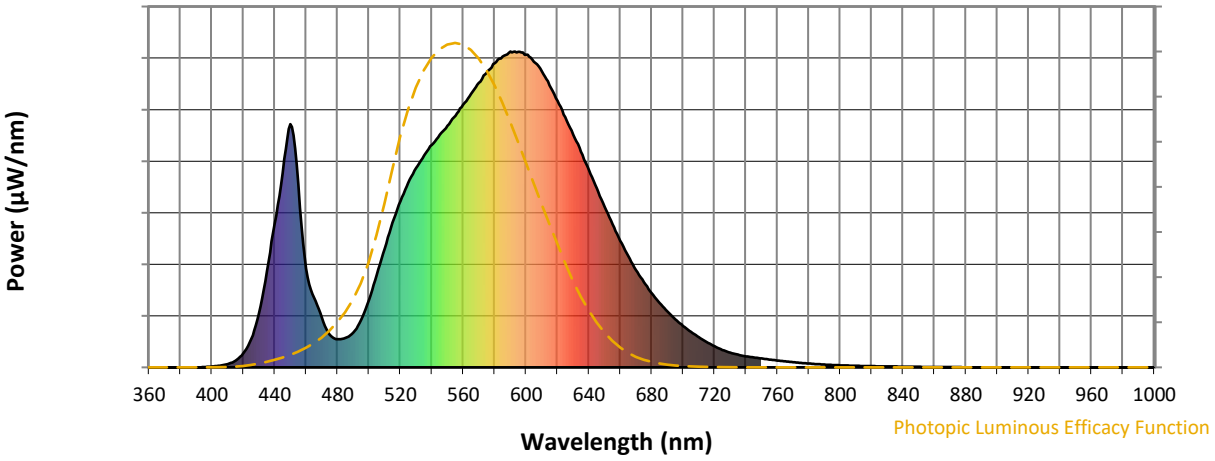


CCT = 3348K
CIE x = 0.4177
CIE y = 0.4036
Duv = 0.0030

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-176-4

Photopic Flux vs. Wavelength

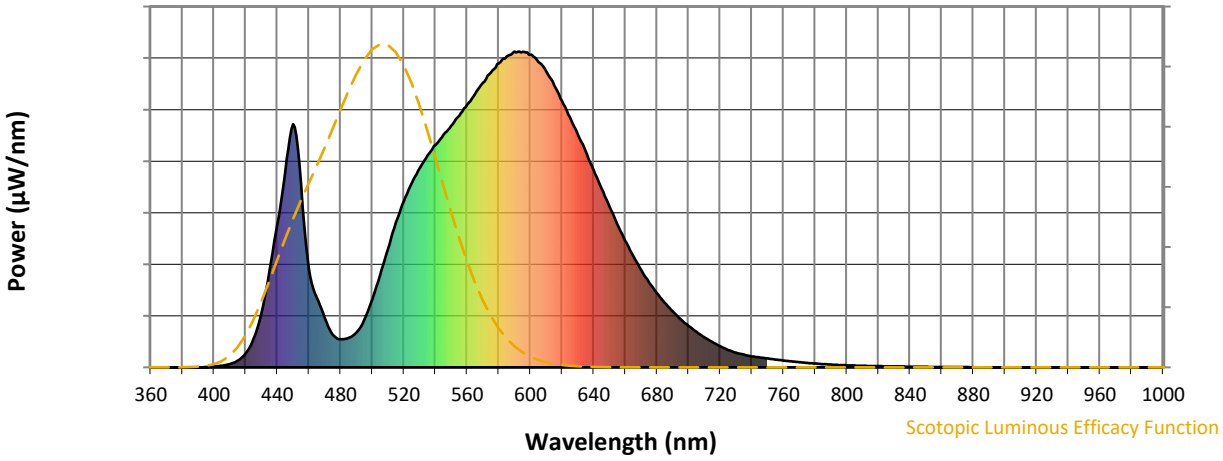


Photopic Lumens: NR

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	844	NR	750	28	NR	880	0	NR
365	0	NR	495	150	NR	625	792	NR	755	25	NR	885	0	NR
370	0	NR	500	214	NR	630	737	NR	760	22	NR	890	0	NR
375	0	NR	505	293	NR	635	683	NR	765	19	NR	895	0	NR
380	0	NR	510	376	NR	640	625	NR	770	16	NR	900	0	NR
385	0	NR	515	458	NR	645	566	NR	775	14	NR	905	0	NR
390	0	NR	520	526	NR	650	509	NR	780	12	NR	910	0	NR
395	1	NR	525	584	NR	655	453	NR	785	10	NR	915	0	NR
400	3	NR	530	631	NR	660	401	NR	790	9	NR	920	0	NR
405	5	NR	535	671	NR	665	353	NR	795	8	NR	925	0	NR
410	10	NR	540	704	NR	670	308	NR	800	7	NR	930	0	NR
415	21	NR	545	737	NR	675	269	NR	805	6	NR	935	0	NR
420	44	NR	550	766	NR	680	235	NR	810	5	NR	940	0	NR
425	90	NR	555	797	NR	685	204	NR	815	4	NR	945	0	NR
430	171	NR	560	832	NR	690	177	NR	820	4	NR	950	0	NR
435	305	NR	565	866	NR	695	152	NR	825	3	NR	955	0	NR
440	455	NR	570	901	NR	700	131	NR	830	3	NR	960	0	NR
445	615	NR	575	933	NR	705	112	NR	835	3	NR	965	0	NR
450	771	NR	580	963	NR	710	96	NR	840	2	NR	970	0	NR
455	579	NR	585	984	NR	715	80	NR	845	2	NR	975	0	NR
460	313	NR	590	1000	NR	720	67	NR	850	2	NR	980	0	NR
465	221	NR	595	999	NR	725	55	NR	855	1	NR	985	0	NR
470	156	NR	600	990	NR	730	46	NR	860	1	NR	990	0	NR
475	103	NR	605	968	NR	735	40	NR	865	1	NR	995	0	NR
480	89	NR	610	937	NR	740	35	NR	870	1	NR	1000	0	NR
485	93	NR	615	893	NR	745	31	NR	875	1	NR			

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Scotopic Flux vs. Wavelength

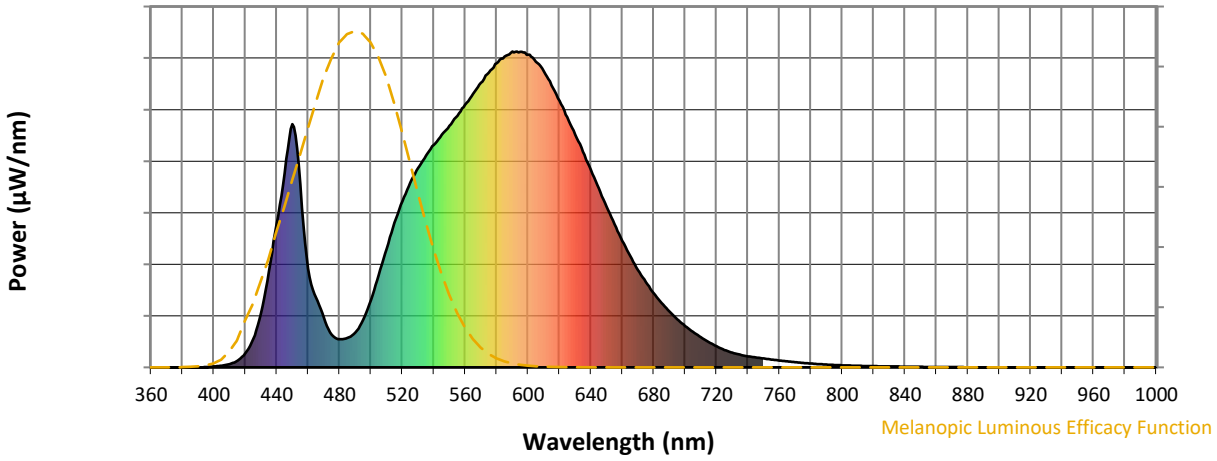


Scotopic Lumens: NR **S/P: 1.31**

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	844	NR	750	28	NR	880	0	NR
365	0	NR	495	150	NR	625	792	NR	755	25	NR	885	0	NR
370	0	NR	500	214	NR	630	737	NR	760	22	NR	890	0	NR
375	0	NR	505	293	NR	635	683	NR	765	19	NR	895	0	NR
380	0	NR	510	376	NR	640	625	NR	770	16	NR	900	0	NR
385	0	NR	515	458	NR	645	566	NR	775	14	NR	905	0	NR
390	0	NR	520	526	NR	650	509	NR	780	12	NR	910	0	NR
395	1	NR	525	584	NR	655	453	NR	785	10	NR	915	0	NR
400	3	NR	530	631	NR	660	401	NR	790	9	NR	920	0	NR
405	5	NR	535	671	NR	665	353	NR	795	8	NR	925	0	NR
410	10	NR	540	704	NR	670	308	NR	800	7	NR	930	0	NR
415	21	NR	545	737	NR	675	269	NR	805	6	NR	935	0	NR
420	44	NR	550	766	NR	680	235	NR	810	5	NR	940	0	NR
425	90	NR	555	797	NR	685	204	NR	815	4	NR	945	0	NR
430	171	NR	560	832	NR	690	177	NR	820	4	NR	950	0	NR
435	305	NR	565	866	NR	695	152	NR	825	3	NR	955	0	NR
440	455	NR	570	901	NR	700	131	NR	830	3	NR	960	0	NR
445	615	NR	575	933	NR	705	112	NR	835	3	NR	965	0	NR
450	771	NR	580	963	NR	710	96	NR	840	2	NR	970	0	NR
455	579	NR	585	984	NR	715	80	NR	845	2	NR	975	0	NR
460	313	NR	590	1000	NR	720	67	NR	850	2	NR	980	0	NR
465	221	NR	595	999	NR	725	55	NR	855	1	NR	985	0	NR
470	156	NR	600	990	NR	730	46	NR	860	1	NR	990	0	NR
475	103	NR	605	968	NR	735	40	NR	865	1	NR	995	0	NR
480	89	NR	610	937	NR	740	35	NR	870	1	NR	1000	0	NR
485	93	NR	615	893	NR	745	31	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.4**

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	844	NR	750	28	NR	880	0	NR
365	0	NR	495	150	NR	625	792	NR	755	25	NR	885	0	NR
370	0	NR	500	214	NR	630	737	NR	760	22	NR	890	0	NR
375	0	NR	505	293	NR	635	683	NR	765	19	NR	895	0	NR
380	0	NR	510	376	NR	640	625	NR	770	16	NR	900	0	NR
385	0	NR	515	458	NR	645	566	NR	775	14	NR	905	0	NR
390	0	NR	520	526	NR	650	509	NR	780	12	NR	910	0	NR
395	1	NR	525	584	NR	655	453	NR	785	10	NR	915	0	NR
400	3	NR	530	631	NR	660	401	NR	790	9	NR	920	0	NR
405	5	NR	535	671	NR	665	353	NR	795	8	NR	925	0	NR
410	10	NR	540	704	NR	670	308	NR	800	7	NR	930	0	NR
415	21	NR	545	737	NR	675	269	NR	805	6	NR	935	0	NR
420	44	NR	550	766	NR	680	235	NR	810	5	NR	940	0	NR
425	90	NR	555	797	NR	685	204	NR	815	4	NR	945	0	NR
430	171	NR	560	832	NR	690	177	NR	820	4	NR	950	0	NR
435	305	NR	565	866	NR	695	152	NR	825	3	NR	955	0	NR
440	455	NR	570	901	NR	700	131	NR	830	3	NR	960	0	NR
445	615	NR	575	933	NR	705	112	NR	835	3	NR	965	0	NR
450	771	NR	580	963	NR	710	96	NR	840	2	NR	970	0	NR
455	579	NR	585	984	NR	715	80	NR	845	2	NR	975	0	NR
460	313	NR	590	1000	NR	720	67	NR	850	2	NR	980	0	NR
465	221	NR	595	999	NR	725	55	NR	855	1	NR	985	0	NR
470	156	NR	600	990	NR	730	46	NR	860	1	NR	990	0	NR
475	103	NR	605	968	NR	735	40	NR	865	1	NR	995	0	NR
480	89	NR	610	937	NR	740	35	NR	870	1	NR	1000	0	NR
485	93	NR	615	893	NR	745	31	NR	875	1	NR			

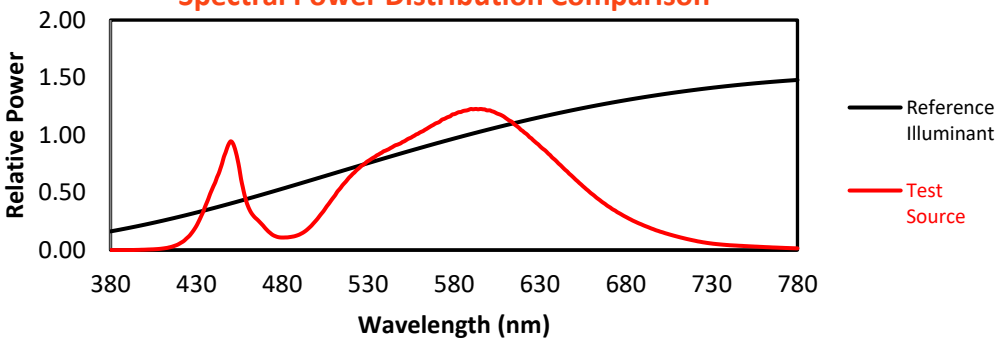
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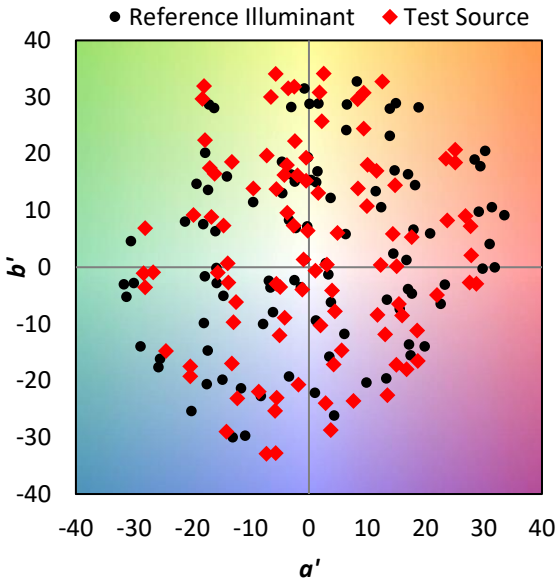
Summary

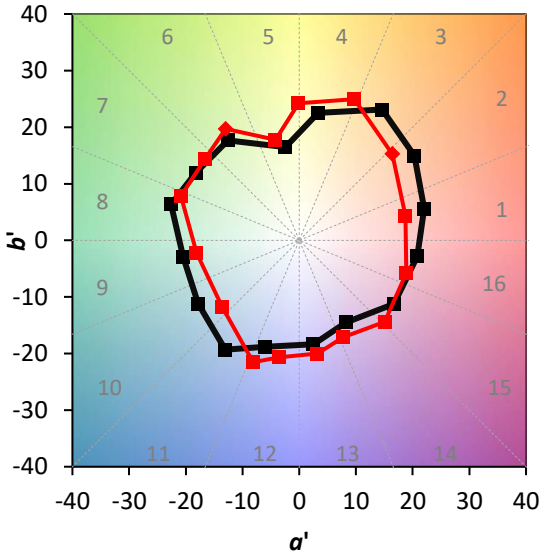
R_f = 75.8
R_g = 95.8
CIE R_a = 73.4
R_9 = -19.2

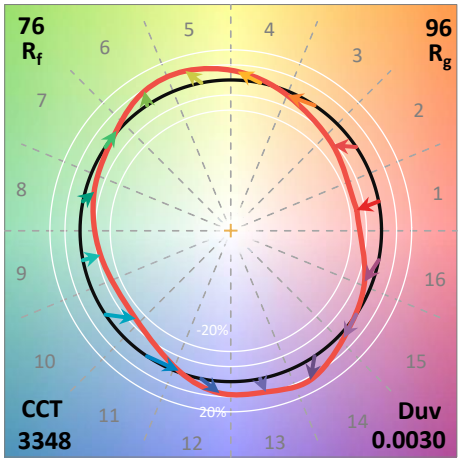
Spectral Power Distribution Comparison

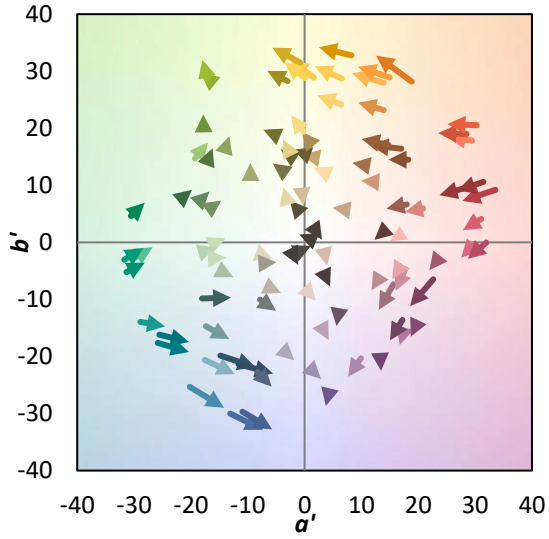


Color Vector Graphics







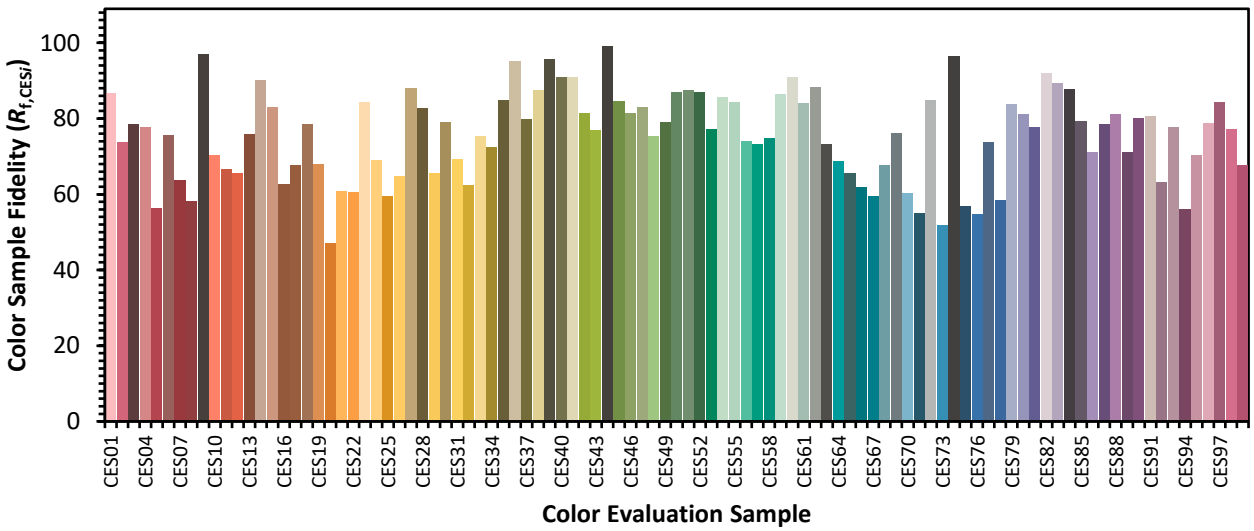


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Individual Sample Fidelity Index ($R_{f,i}$)

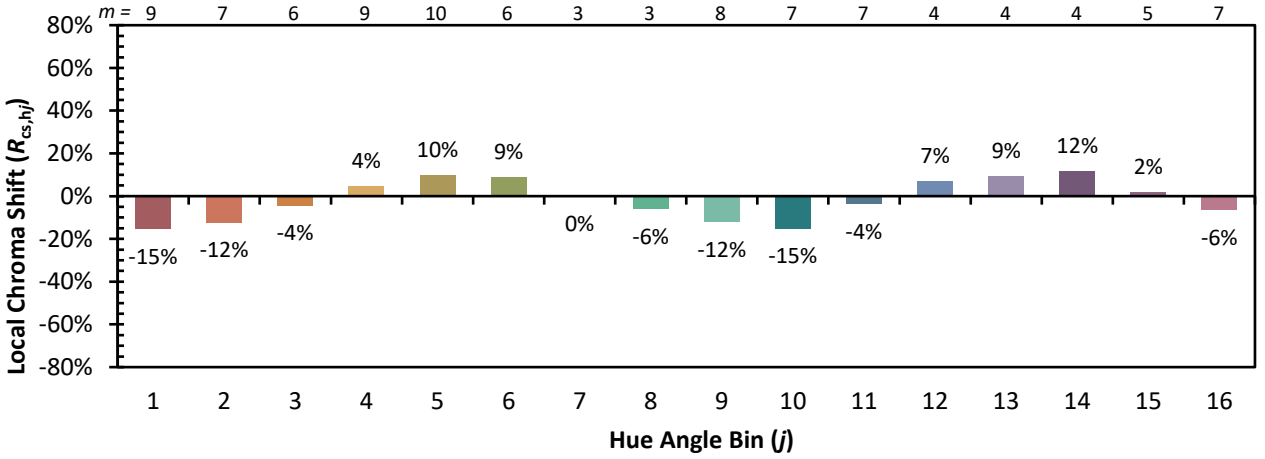
CES01 = 86	CES26 = 65	CES51 = 88	CES76 = 55
CES02 = 62	CES27 = 88	CES52 = 87	CES77 = 74
CES03 = 31	CES28 = 83	CES53 = 77	CES78 = 58
CES04 = 70	CES29 = 66	CES54 = 86	CES79 = 84
CES05 = 48	CES30 = 79	CES55 = 84	CES80 = 81
CES06 = 51	CES31 = 69	CES56 = 74	CES81 = 78
CES07 = 41	CES32 = 62	CES57 = 73	CES82 = 92
CES08 = 40	CES33 = 75	CES58 = 75	CES83 = 89
CES09 = 29	CES34 = 73	CES59 = 87	CES84 = 88
CES10 = 75	CES35 = 85	CES60 = 91	CES85 = 79
CES11 = 58	CES36 = 95	CES61 = 84	CES86 = 71
CES12 = 64	CES37 = 80	CES62 = 88	CES87 = 79
CES13 = 43	CES38 = 88	CES63 = 73	CES88 = 81
CES14 = 74	CES39 = 96	CES64 = 69	CES89 = 71
CES15 = 71	CES40 = 91	CES65 = 66	CES90 = 80
CES16 = 47	CES41 = 91	CES66 = 62	CES91 = 81
CES17 = 50	CES42 = 81	CES67 = 60	CES92 = 63
CES18 = 56	CES43 = 77	CES68 = 68	CES93 = 78
CES19 = 72	CES44 = 99	CES69 = 76	CES94 = 56
CES20 = 65	CES45 = 85	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 82	CES71 = 55	CES96 = 79
CES22 = 79	CES47 = 83	CES72 = 85	CES97 = 84
CES23 = 92	CES48 = 75	CES73 = 52	CES98 = 77
CES24 = 91	CES49 = 79	CES74 = 96	CES99 = 68
CES25 = 72	CES50 = 87	CES75 = 57	

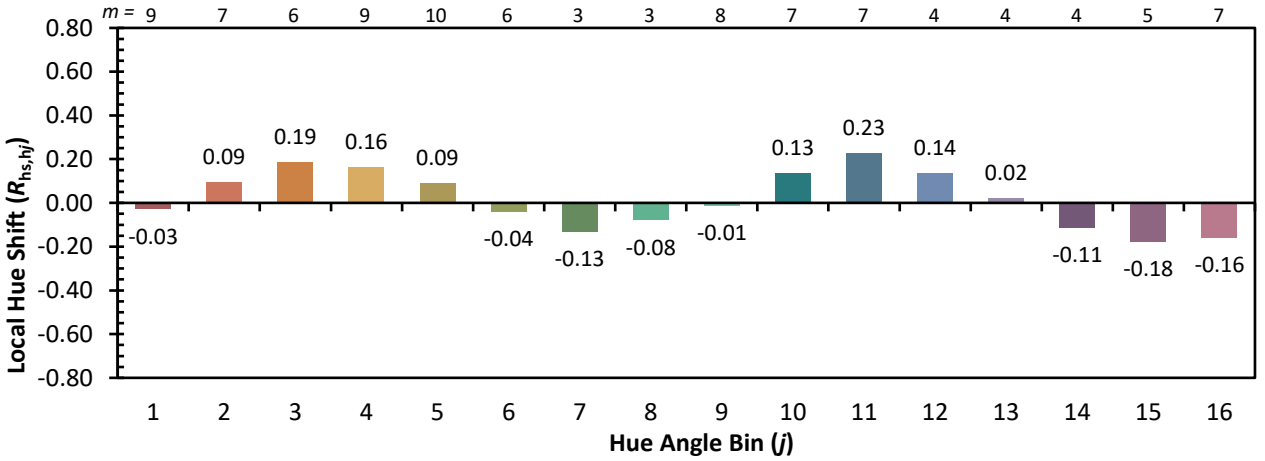


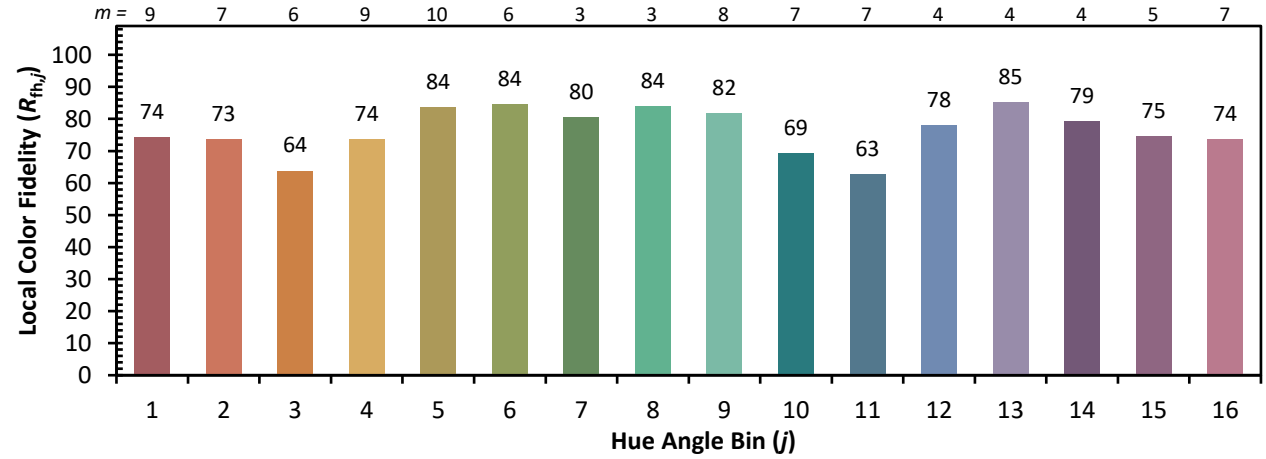
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Color Rendition by Hue-Angle Bin



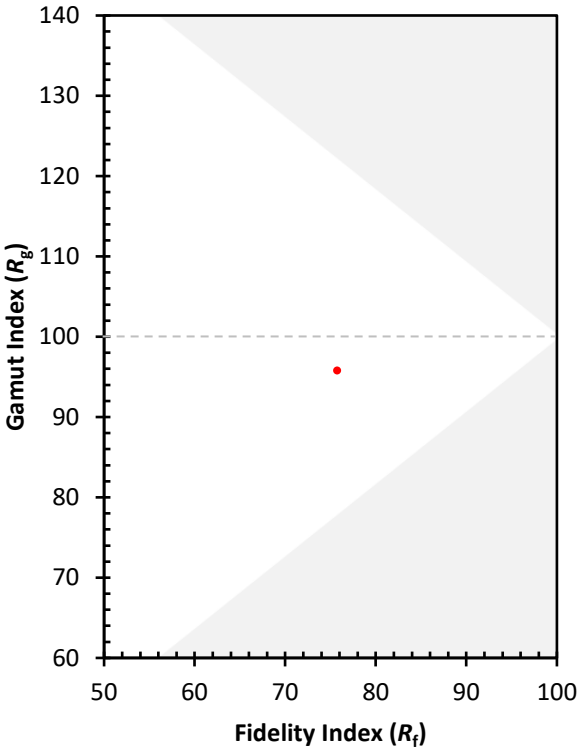


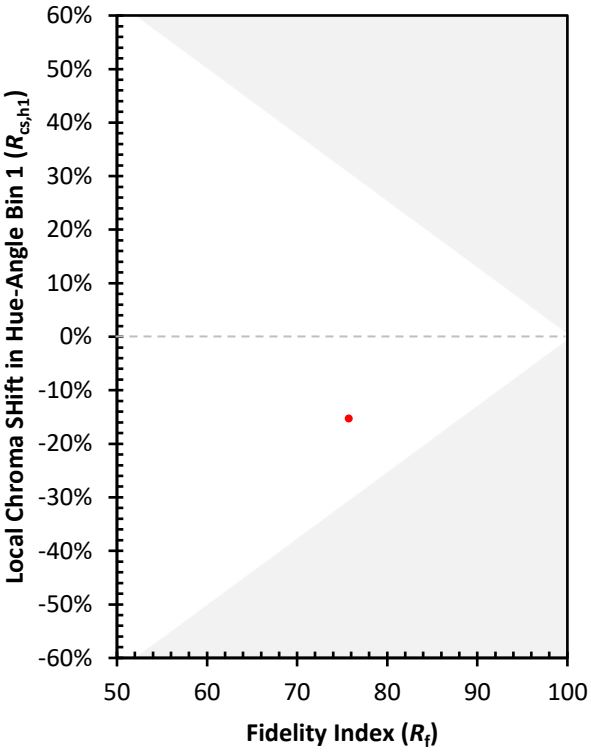


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Measure Comparisons





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