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: P821394

Luminaire Tested: **TT-D4-750-24VDC-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:	P821394
	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-WQ-UPL
Description:	TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT WITH UPLIGHT
	5000K, 70 CRI LEDS AND WIDE DISTRIBUTION
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8473.4 lumens
Efficiency:	N/A
Efficacy:	148.7 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification:	Type V - Short
BUG Rating:	B3 - U4 - G2

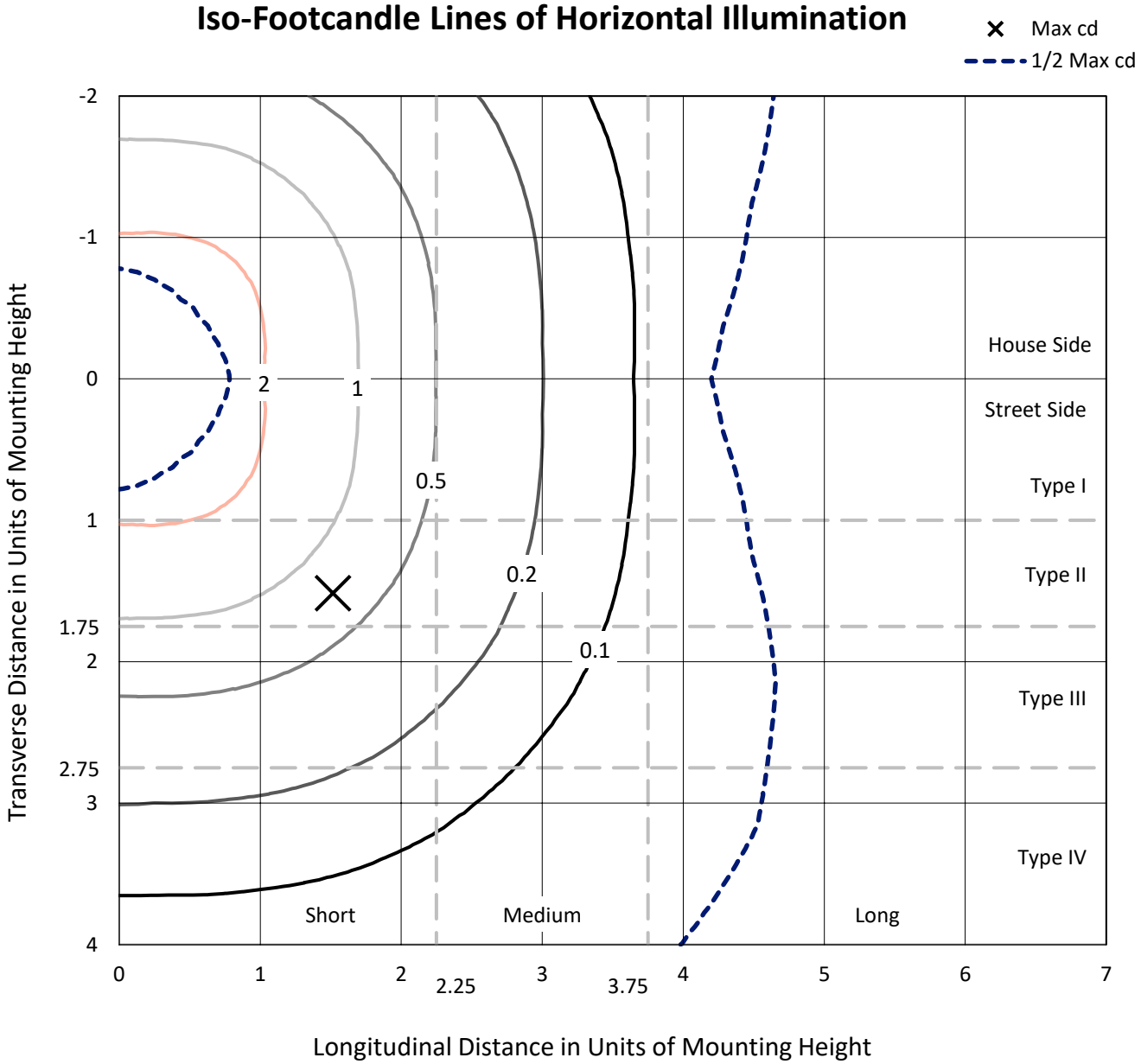
Input Watts (W):	57
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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Scaled Data Report

REPORT NUMBER: P821394
CATALOG NUMBER: TT-D4-750-24VDC-WQ-UPL

Iso-Footcandle Lines of Horizontal Illumination



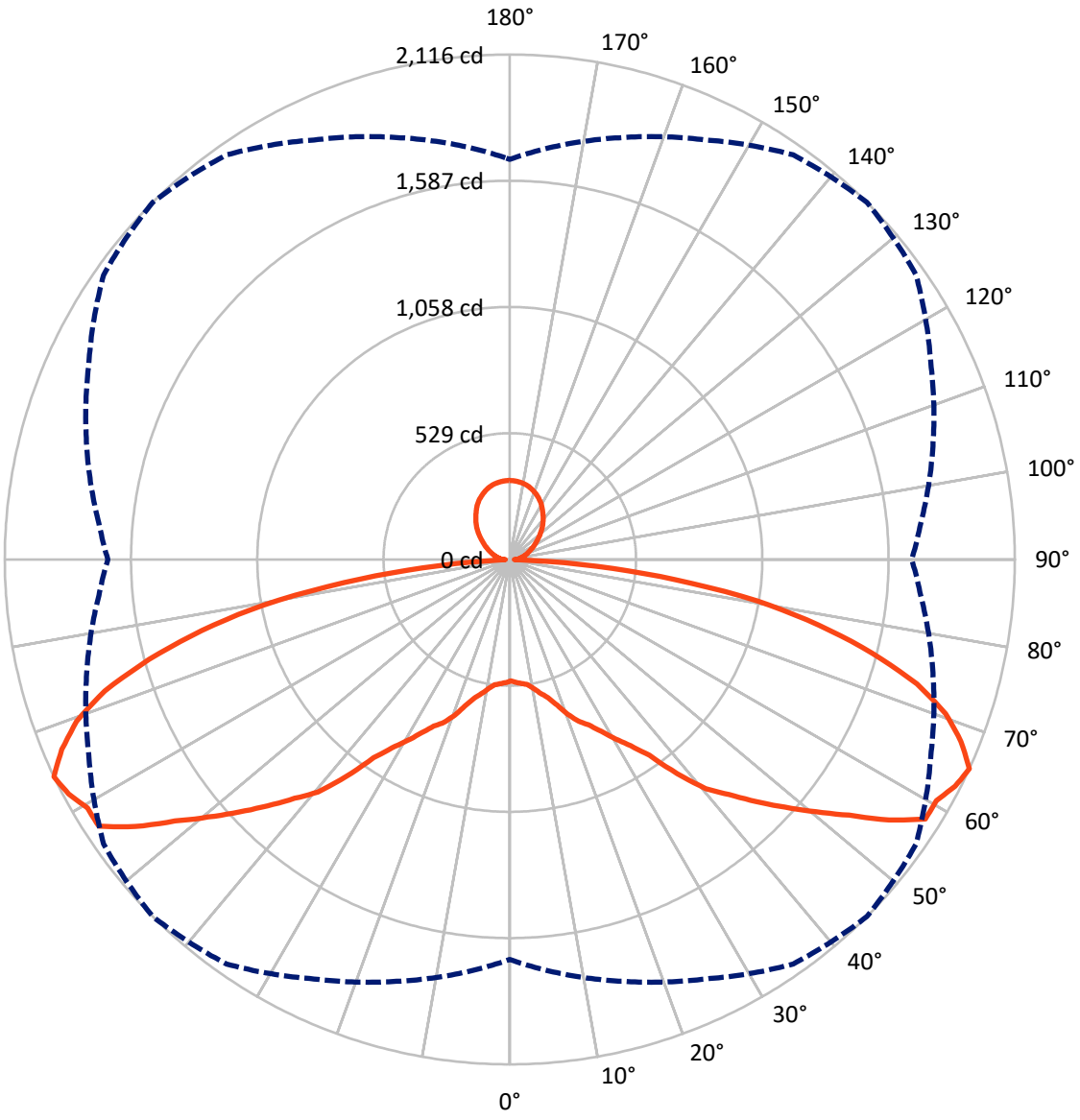
Based on 15 foot mounting height. Maximum calculated value = 2.6 fc
Type V - Short - N/A

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REPORT NUMBER: P821394
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Luminous Intensity Polar Plot



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Scaled Data Report

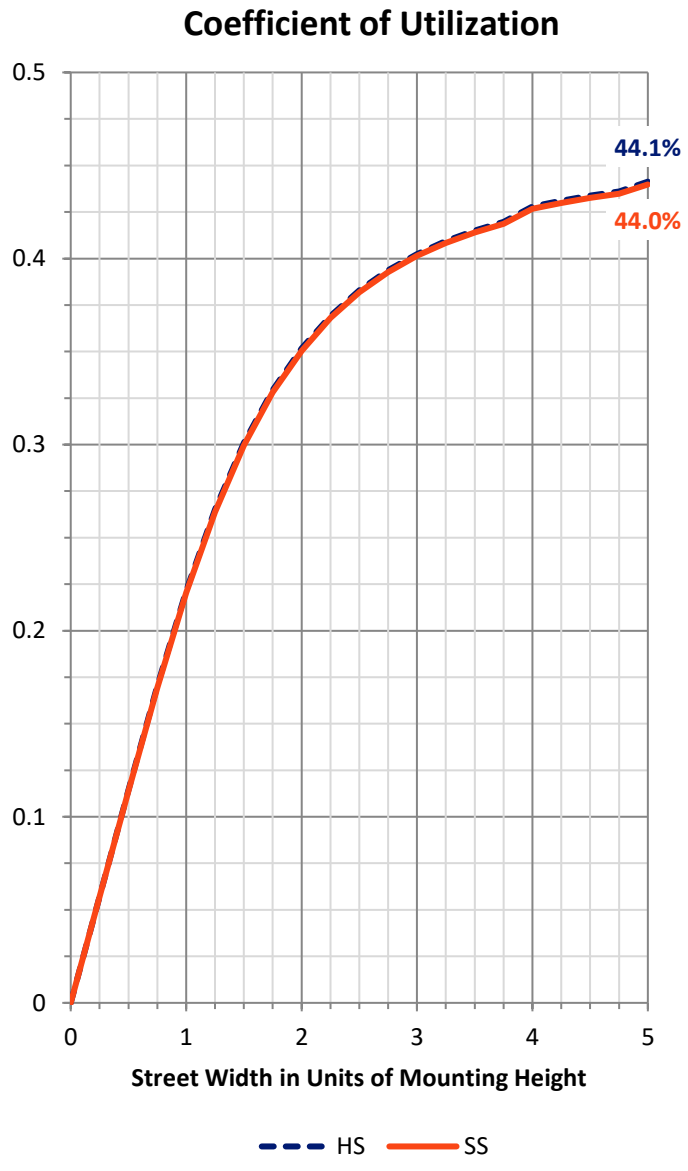
REPORT NUMBER: P821394
CATALOG NUMBER: TT-D4-750-24VDC-WQ-UPL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3786.7	450.0	4236.7
	% Fixture	44.7	5.3	50.0
Street Side	Lumens	3786.7	450.0	4236.7
	% Fixture	44.7	5.3	50.0
Total	Lumens	7573.3	900.0	8473.4
	% Fixture	89.4	10.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	0.6
10°-20°	174.7	2.1
20°-30°	358.8	4.2
30°-40°	637.4	7.5
40°-50°	1074.4	12.7
50°-60°	1584.9	18.7
60°-70°	1860.1	22.0
70°-80°	1449.1	17.1
80°-90°	383.2	4.5
90°-100°	46.1	0.5
100°-110°	71.4	0.8
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°	7573.3	89.4
0°-180°	8473.4	100.0



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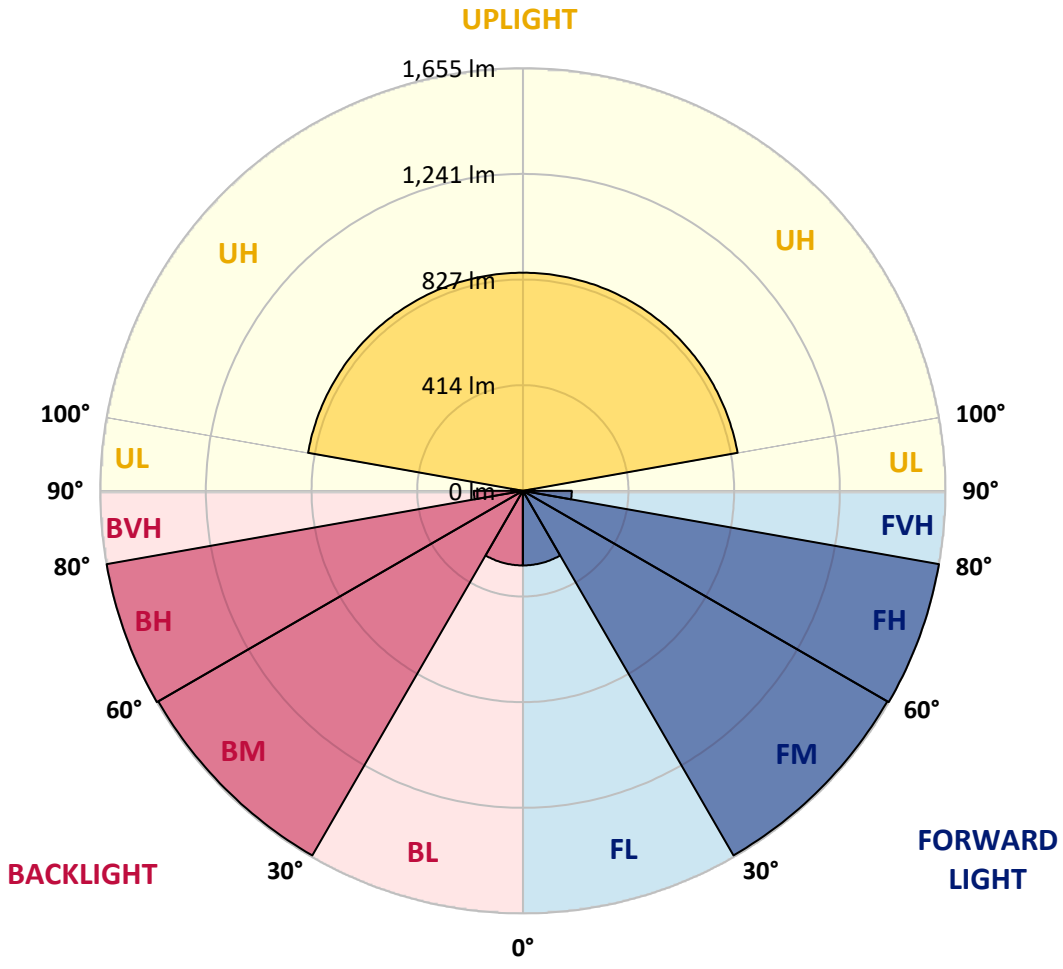
Scaled Data Report

REPORT NUMBER: P821394
CATALOG NUMBER: TT-D4-750-24VDC-WQ-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	292.1	3.4			
FM	(30°-60°)	1648.3	19.5			
FH	(60°-80°)	1654.6	19.5			G1/1800
FVH	(80°-90°)	191.6	2.3			G2/225
BL	(0°-30°)	292.1	3.4	B1/500		
BM	(30°-60°)	1648.3	19.5	B2/2500		
BH	(60°-80°)	1654.6	19.5	B3/2500		G1/1800
BVH	(80°-90°)	191.6	2.3			G2/225
UL	(90°-100°)	46.1	0.5		U2/50	
UH	(100°-180°)	853.9	10.1		U4/1000	

BUG Rating: B3-U4-G2
Type V Short



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REPORT NUMBER: P821394
CATALOG NUMBER: TT-D4-750-24VDC-WQ-UPL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	509.4	509.4	509.4	509.4	509.4	*509.4*	509.4	509.4	509.4	509.4	509.4
2.5°	517.7	517.7	517.7	516.6	516.6	*516.6*	516.6	517.7	517.7	517.7	517.7
5°	529.7	529.7	527.3	524.9	522.5	*522.5*	523.7	524.9	526.1	528.5	528.5
7.5°	536.8	536.8	535.6	533.2	529.7	*529.7*	530.8	533.2	534.4	534.4	533.2
10°	546.3	547.5	551.1	552.3	549.9	*549.9*	551.1	552.3	549.9	546.3	546.3
12.5°	568.9	570.1	574.9	578.5	578.5	*576.1*	577.3	579.6	573.7	567.7	568.9
15°	601.1	601.1	602.3	605.8	603.4	*601.1*	603.4	604.6	601.1	599.9	602.3
17.5°	643.9	643.9	636.8	642.7	643.9	*642.7*	645.1	639.2	635.6	640.3	642.7
20°	690.3	685.6	682.0	686.8	696.3	*692.7*	697.5	684.4	680.8	683.2	684.4
22.5°	720.1	723.7	726.0	728.4	741.5	*736.8*	741.5	727.2	724.8	720.1	716.5
25°	755.8	759.4	773.6	766.5	774.8	*767.7*	773.6	765.3	770.1	755.8	755.8
27.5°	796.3	803.4	811.7	808.2	818.9	*815.3*	818.9	807.0	808.2	802.2	799.8
30°	851.0	851.0	848.6	855.8	874.8	*872.4*	873.6	858.2	847.4	848.6	853.4
32.5°	905.8	898.6	902.2	923.6	935.5	*930.8*	933.1	926.0	902.2	897.4	901.0
35°	956.9	967.7	976.0	993.8	1010.5	*1008.1*	1006.9	995.0	979.6	960.5	954.6
37.5°	1036.7	1048.6	1071.2	1103.3	1133.1	*1139.0*	1123.6	1108.1	1072.4	1045.0	1030.7
40°	1141.4	1142.6	1168.8	1230.7	1258.1	*1262.8*	1254.5	1228.3	1173.6	1142.6	1141.4
42.5°	1233.1	1224.7	1267.6	1320.0	1345.0	*1347.3*	1341.4	1320.0	1267.6	1223.6	1231.9
45°	1304.5	1304.5	1355.7	1397.3	1437.8	*1447.3*	1436.6	1391.4	1356.9	1305.7	1302.1
47.5°	1370.0	1387.8	1430.7	1481.8	1539.0	*1552.1*	1539.0	1485.4	1427.1	1389.0	1368.8
50°	1448.5	1469.9	1500.9	1580.6	1644.9	*1662.7*	1643.7	1585.4	1500.9	1468.7	1456.8
52.5°	1540.2	1558.0	1606.8	1706.8	1754.4	*1780.6*	1765.1	1709.2	1609.2	1560.4	1550.9
55°	1649.7	1633.0	1709.2	1805.6	1893.7	*1928.2*	1897.2	1808.0	1721.1	1633.0	1649.7
57.5°	1705.6	1686.6	1793.7	1885.3	2007.9	*2053.1*	2015.1	1892.5	1793.7	1692.5	1704.4
60°	1710.4	1718.7	1799.6	1949.6	2034.1	*2053.1*	2041.2	1960.3	1803.2	1725.8	1703.2
62.5°	1696.1	1747.3	1816.3	1971.0	2047.2	*2093.6*	2053.1	1973.4	1823.4	1755.6	1697.3
65°	*1677.0*	*1728.2*	*1830.6*	*1940.1*	*2069.8*	*2116.2*	*2078.1*	*1946.0*	*1835.3*	*1728.2*	*1684.2*
67.5°	1643.7	1625.9	1752.0	1898.4	2011.5	*2038.9*	2015.1	1900.8	1750.8	1623.5	1647.3
70°	1537.8	1522.3	1630.6	1791.3	1899.6	*1937.7*	1909.1	1793.7	1633.0	1525.9	1540.2
72.5°	1380.7	1385.4	1490.2	1643.7	1760.3	*1784.2*	1768.7	1642.5	1496.1	1391.4	1372.3
75°	1197.4	1209.3	1309.2	1448.5	1554.4	*1568.7*	1553.2	1454.5	1308.1	1216.4	1191.4
77.5°	984.3	1002.2	1083.1	1222.4	1292.6	*1324.7*	1299.7	1225.9	1089.1	1006.9	981.9
80°	762.9	768.9	826.0	937.9	1030.7	*1052.2*	1028.4	941.5	833.2	771.3	753.4
82.5°	499.9	509.4	560.6	646.3	707.0	*701.0*	707.0	639.2	566.5	507.0	477.3
85°	222.6	241.6	276.1	316.6	355.9	*366.6*	355.9	321.4	276.1	236.9	232.1
87.5°	15.5	17.9	21.4	22.6	25.0	*19.0*	19.0	19.0	16.7	19.0	15.5
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: P821394
CATALOG NUMBER: TT-D4-750-24VDC-WQ-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

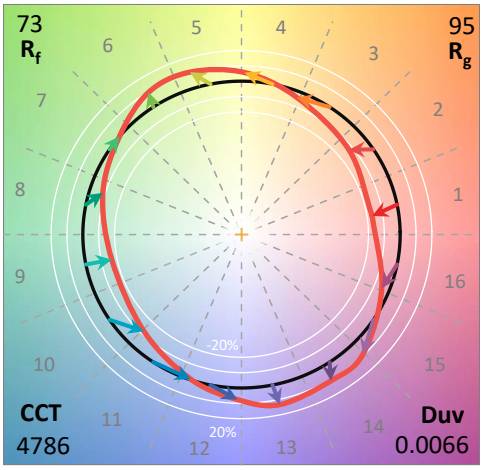
Test Information

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

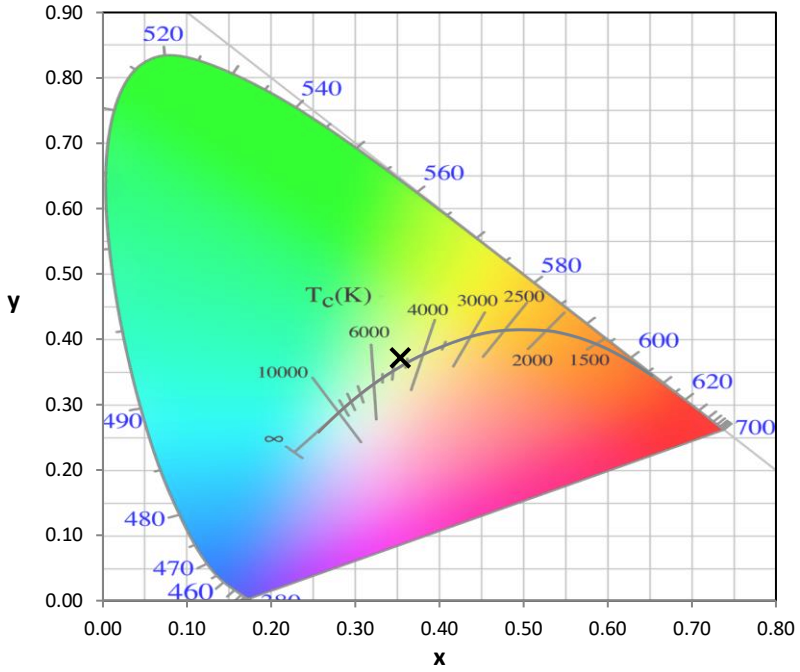
Stabilization Time:	45M
Operation Time:	1H 45M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-176-6

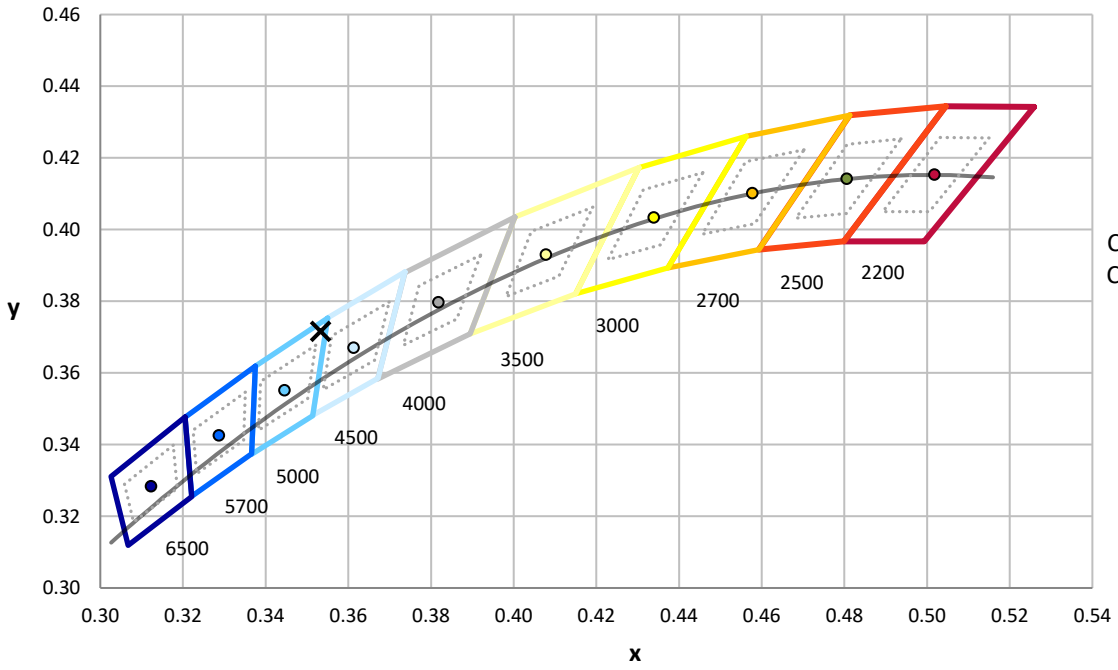
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

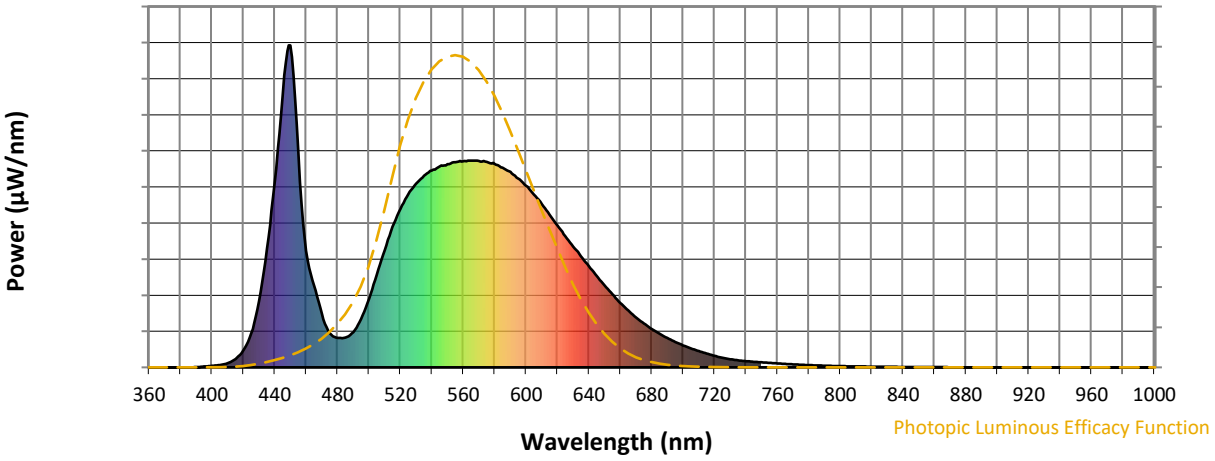


CCT = 4786K
CIE x = 0.3533
CIE y = 0.3716
Duv = 0.0066

Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-176-6

Photopic Flux vs. Wavelength

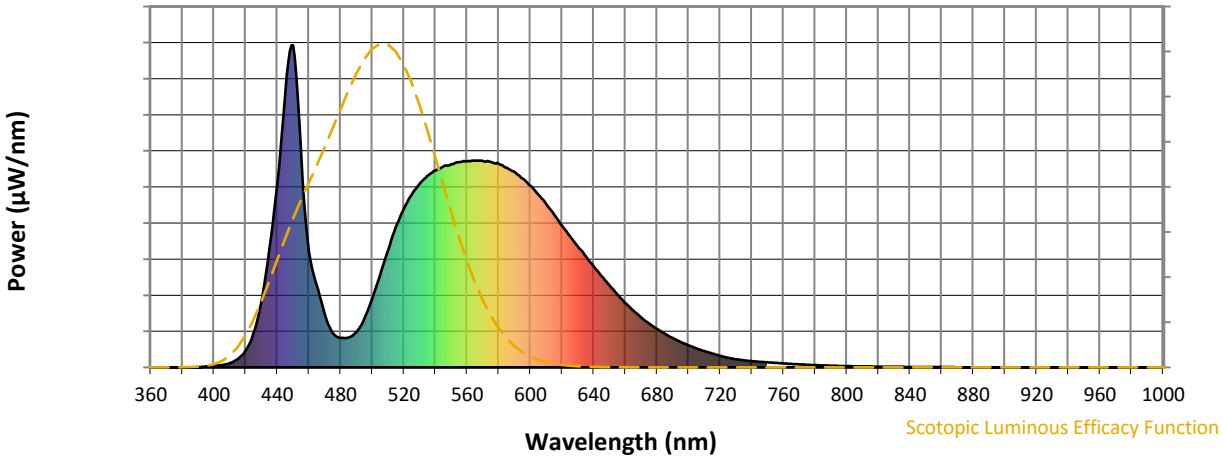


Photopic Lumens: NR

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

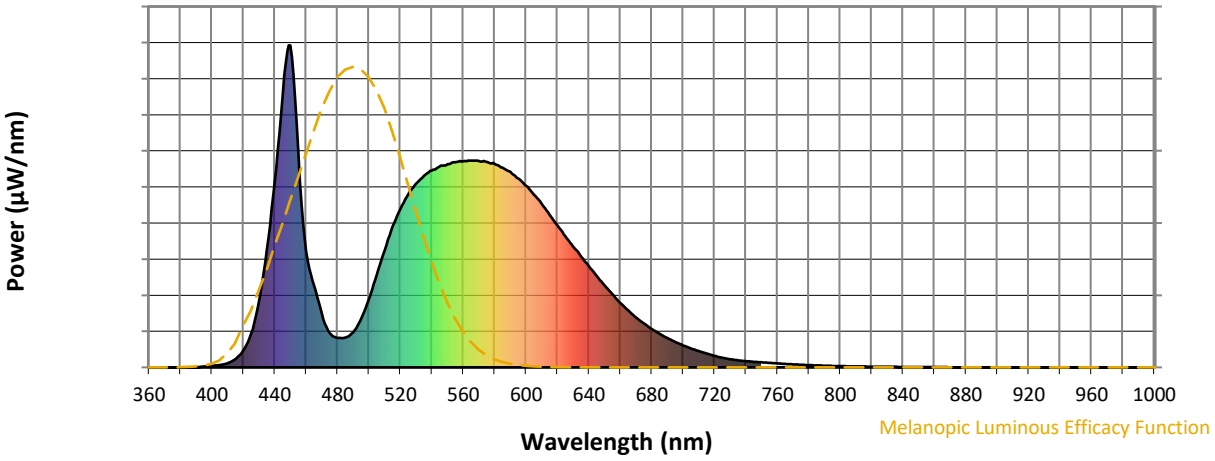


Scotopic Lumens: NR **S/P: 1.69**

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			

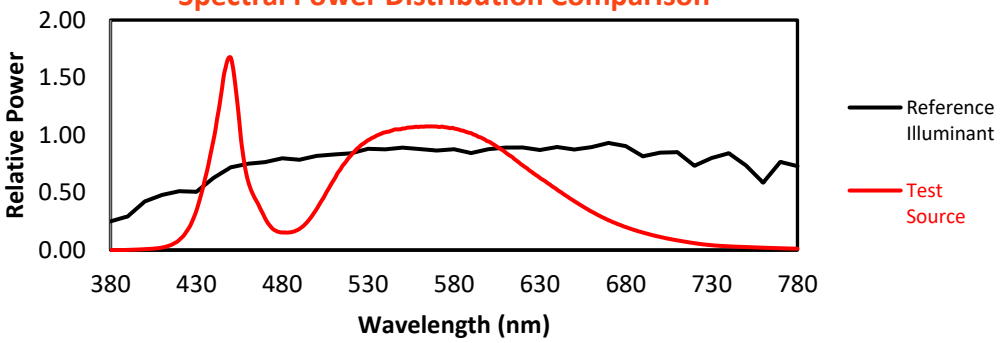
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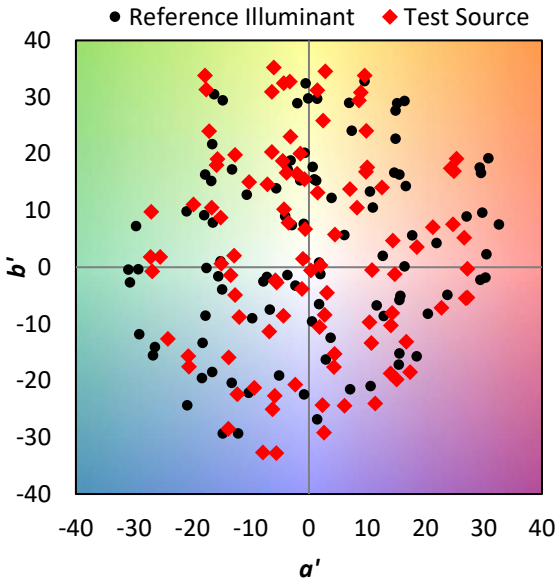
Summary

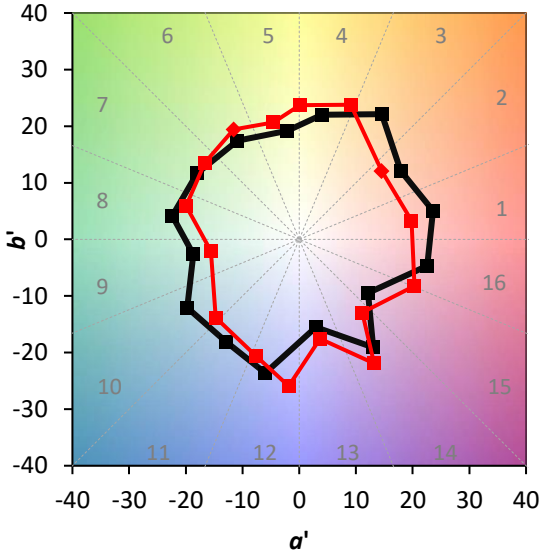
R_f = 73
R_g = 94.6
CIE R_a = 70.9
R_9 = -29.8

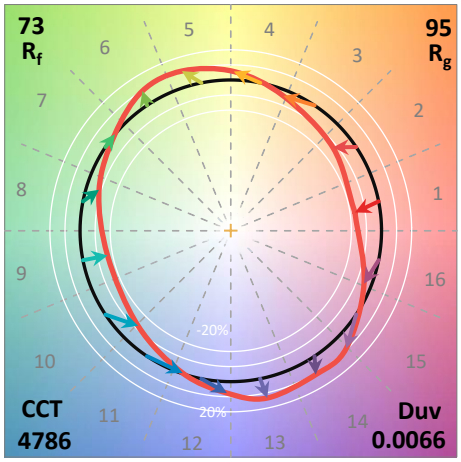
Spectral Power Distribution Comparison

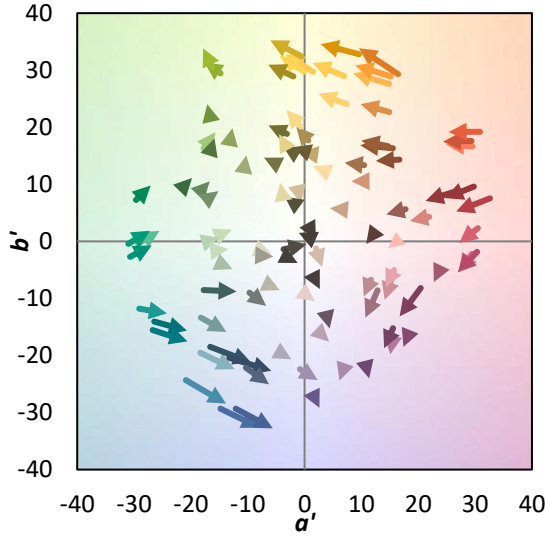


Color Vector Graphics







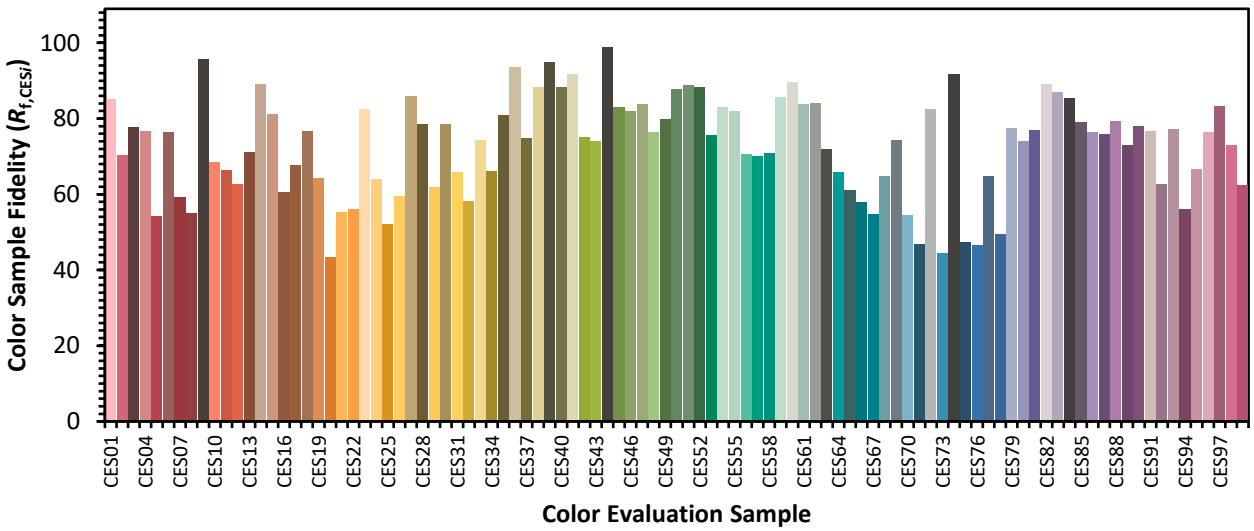


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Individual Sample Fidelity Index ($R_{f,i}$)

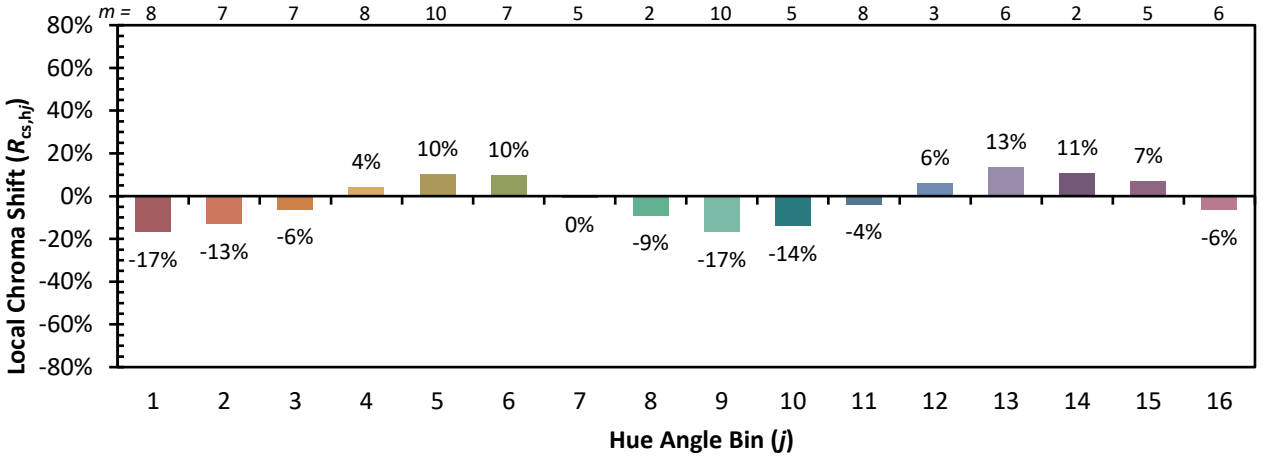
CES01 = 85	CES26 = 60	CES51 = 89	CES76 = 46
CES02 = 59	CES27 = 86	CES52 = 88	CES77 = 65
CES03 = 30	CES28 = 78	CES53 = 76	CES78 = 49
CES04 = 69	CES29 = 62	CES54 = 83	CES79 = 78
CES05 = 46	CES30 = 79	CES55 = 82	CES80 = 74
CES06 = 50	CES31 = 66	CES56 = 71	CES81 = 77
CES07 = 39	CES32 = 58	CES57 = 70	CES82 = 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	

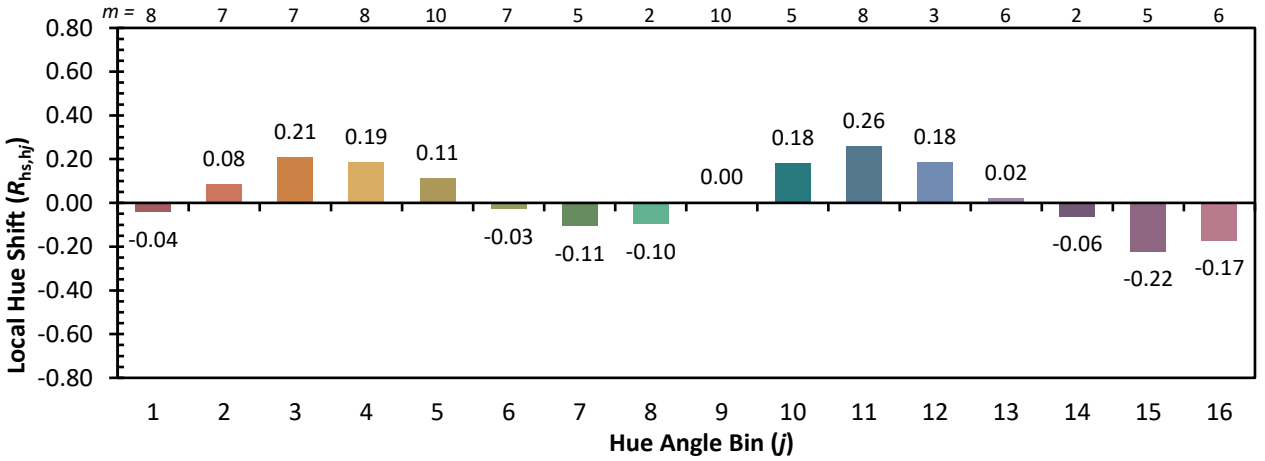


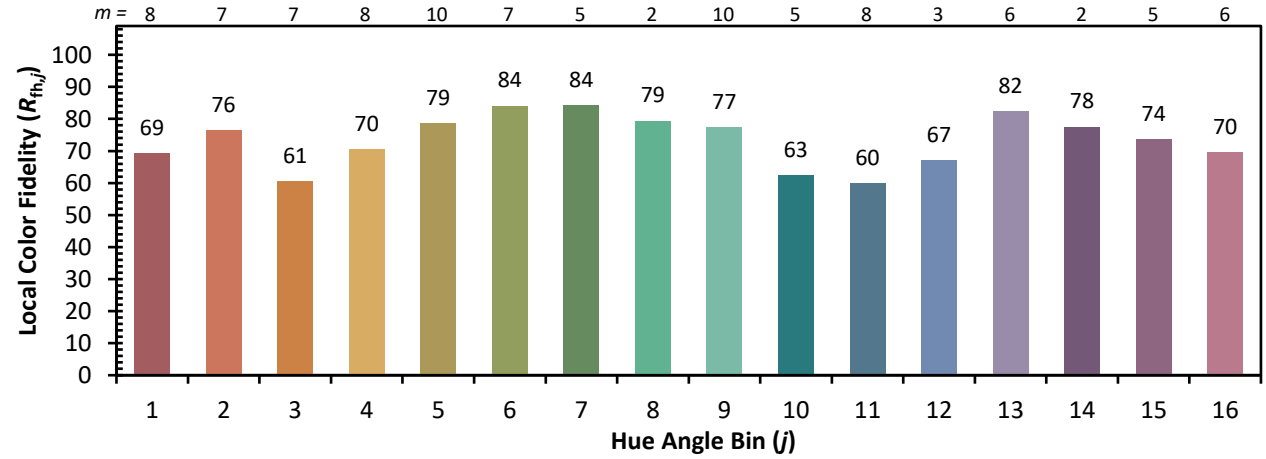
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Color Rendition by Hue-Angle Bin



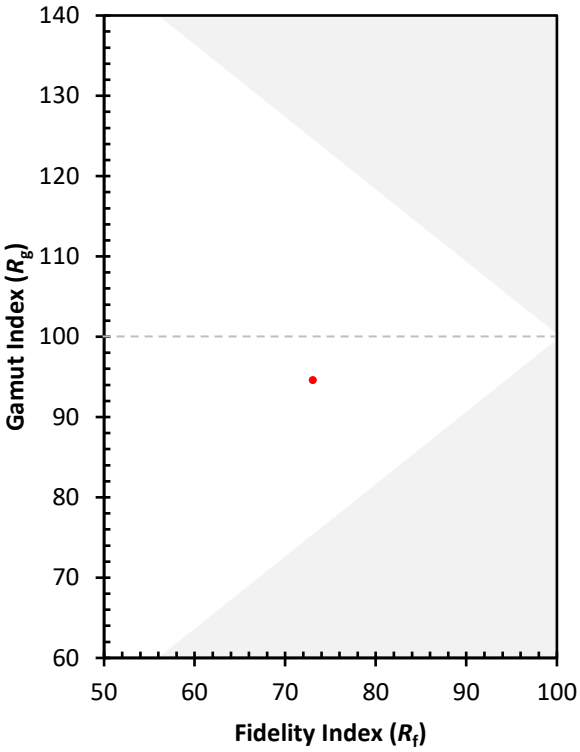


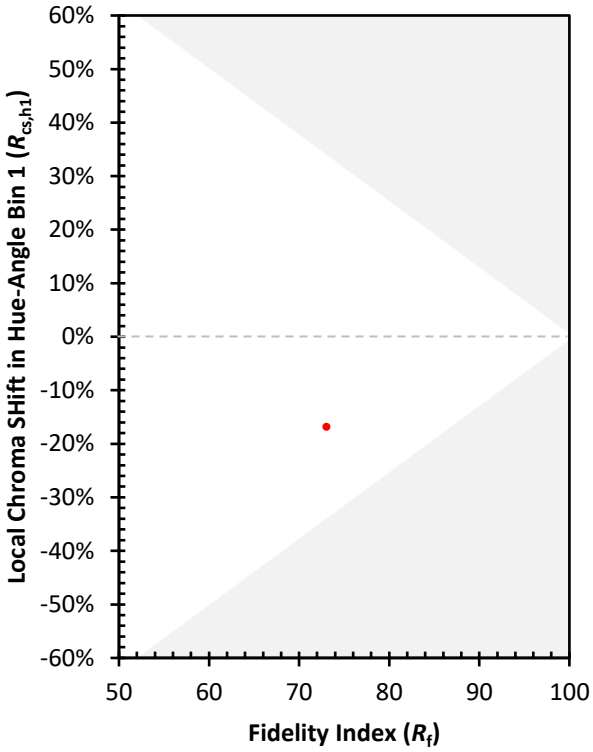


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Measure Comparisons





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