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: P821272

Luminaire Tested: **TT-D1-740-24VDC-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:	P821272
	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-D1-740-24VDC-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:	3986.7 lumens
Efficiency:	N/A
Efficacy:	142.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U4 - G2

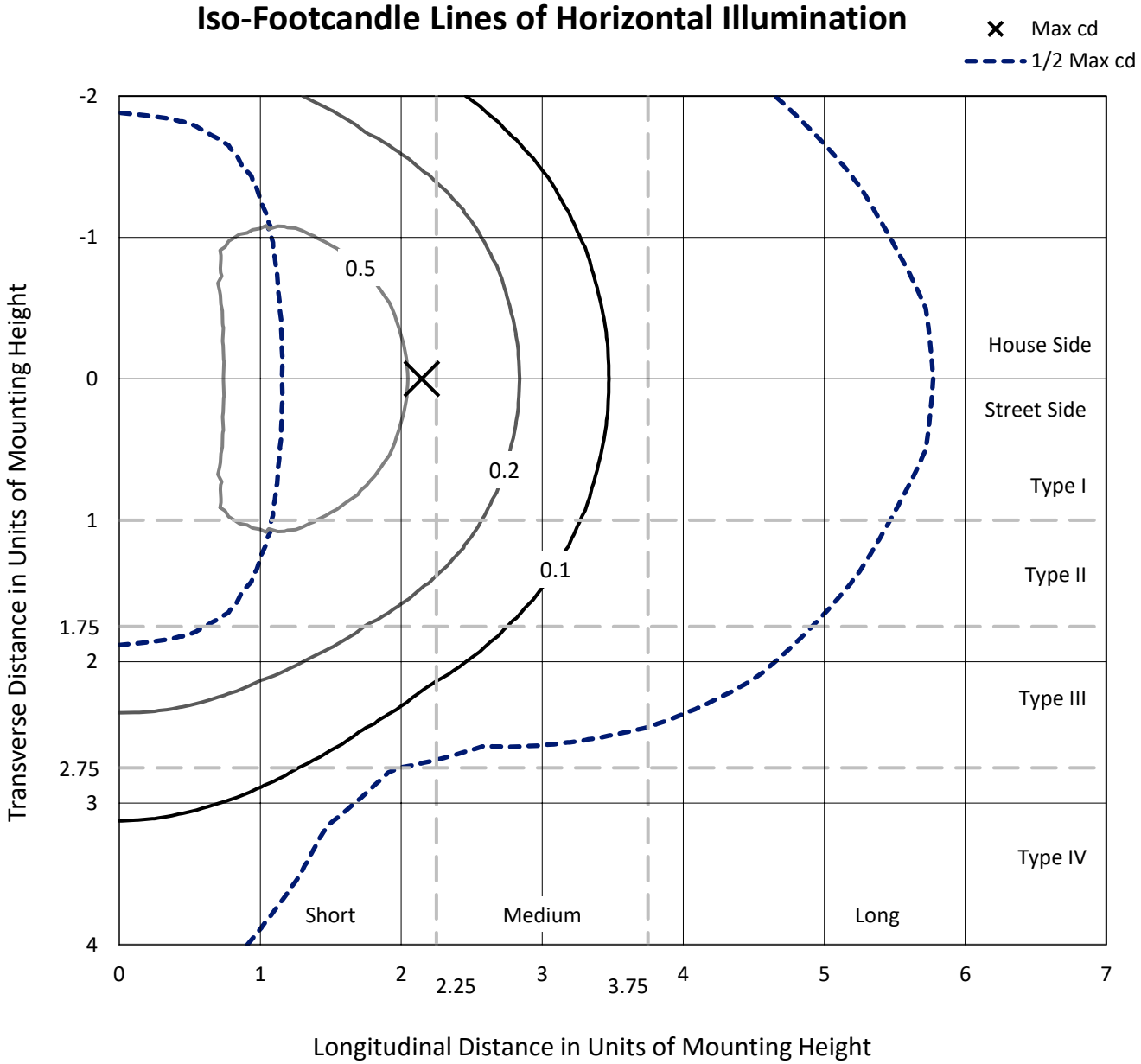
Input Watts (W):	28
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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REPORT NUMBER: P821272
CATALOG NUMBER: TT-D1-740-24VDC-RW-UPL

Iso-Footcandle Lines of Horizontal Illumination



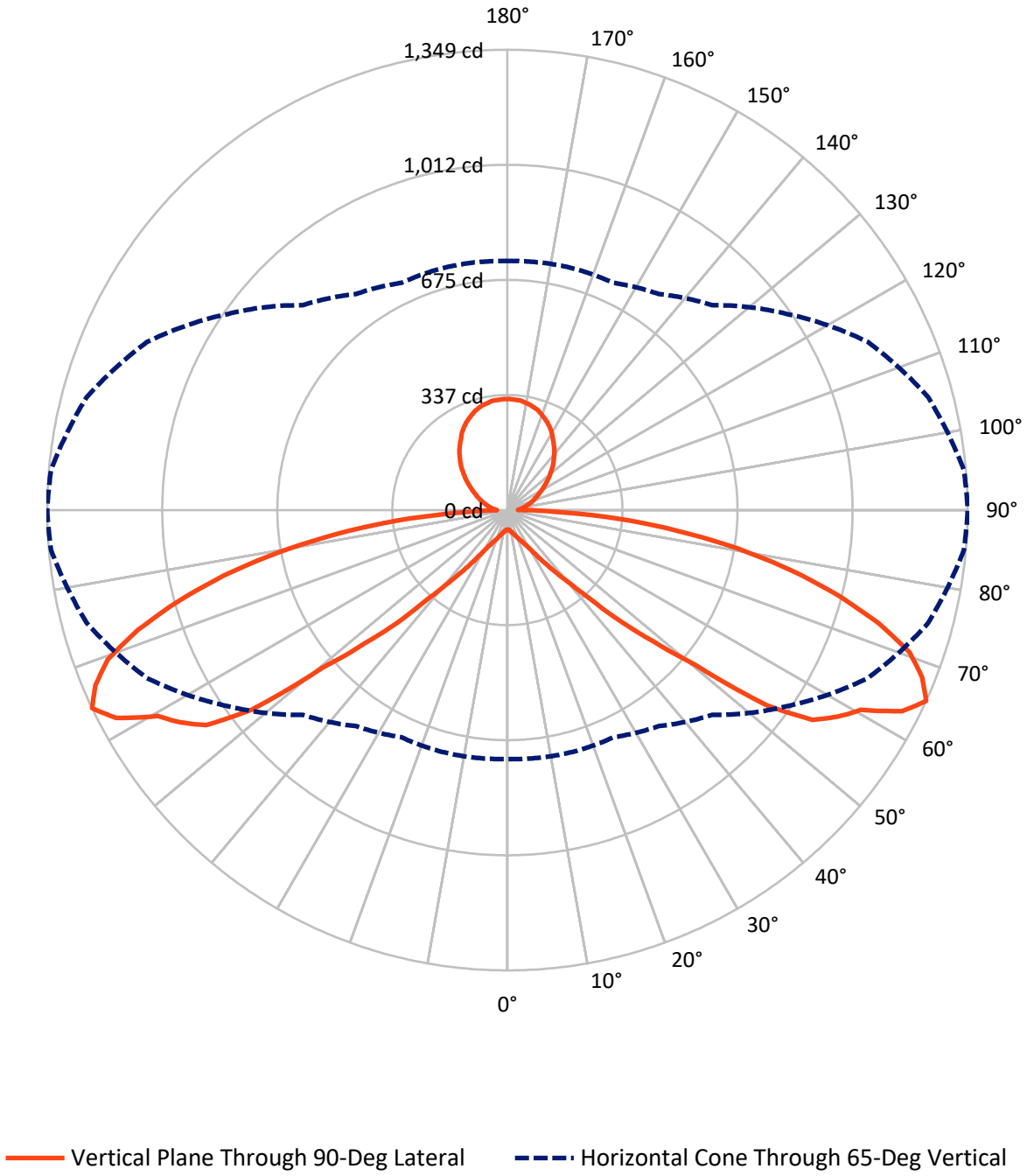
Based on 15 foot mounting height. Maximum calculated value = 0.9 fc
Type IV - Short - N/A

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REPORT NUMBER: P821272
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Luminous Intensity Polar Plot



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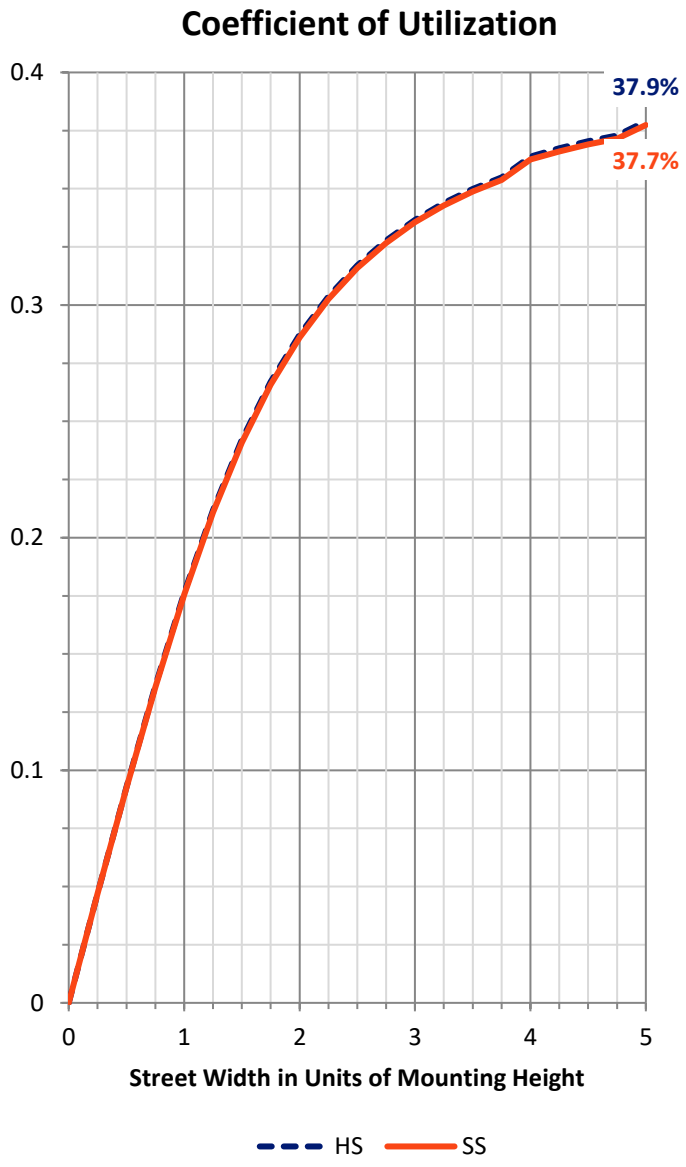
REPORT NUMBER: P821272
CATALOG NUMBER: TT-D1-740-24VDC-RW-UPL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1550.6	442.7	1993.4
	% Fixture	38.9	11.1	50.0
Street Side	Lumens	1550.6	442.7	1993.4
	% Fixture	38.9	11.1	50.0
Total	Lumens	3101.3	885.5	3986.7
	% Fixture	77.8	22.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.9	0.1
10°-20°	22.1	0.6
20°-30°	51.0	1.3
30°-40°	115.4	2.9
40°-50°	281.1	7.1
50°-60°	632.1	15.9
60°-70°	923.8	23.2
70°-80°	804.9	20.2
80°-90°	265.0	6.6
90°-100°	45.4	1.1
100°-110°	70.3	1.8
110°-120°	97.7	2.5
120°-130°	126.6	3.2
130°-140°	147.6	3.7
140°-150°	149.5	3.8
150°-160°	129.8	3.3
160°-170°	87.7	2.2
170°-180°	30.8	0.8
0°-90°	3101.3	77.8
0°-180°	3986.7	100.0



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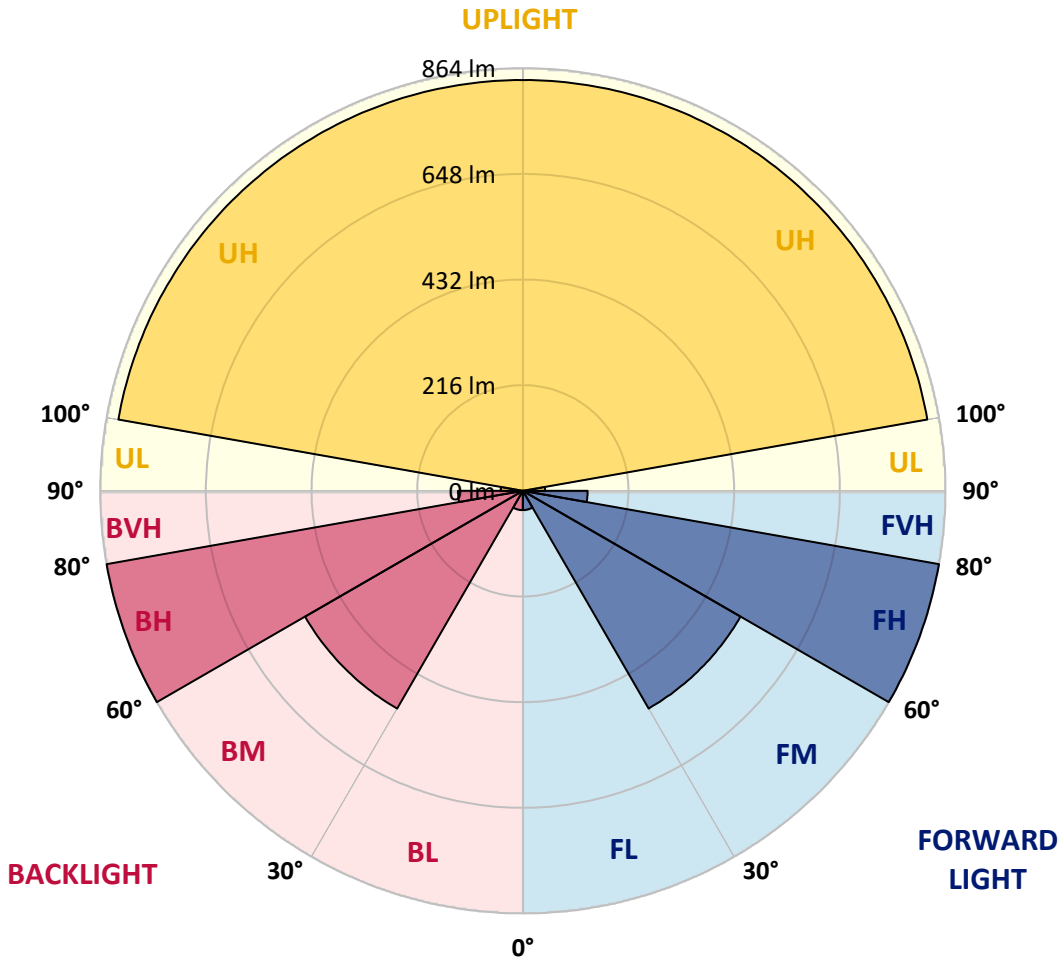
Scaled Data Report

REPORT NUMBER: P821272
CATALOG NUMBER: TT-D1-740-24VDC-RW-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	39.5	1.0			
FM	(30°-60°)	514.3	12.9			
FH	(60°-80°)	864.3	21.7			G1/1800
FVH	(80°-90°)	132.5	3.3			G2/225
BL	(0°-30°)	39.5	1.0	B0/110		
BM	(30°-60°)	514.3	12.9	B1/1000		
BH	(60°-80°)	864.3	21.7	B2/1000		G2/1000
BVH	(80°-90°)	132.5	3.3			G2/225
UL	(90°-100°)	45.4	1.1		U2/50	
UH	(100°-180°)	840.1	21.1		U4/1000	

BUG Rating: B2-U4-G2
Type IV Short



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REPORT NUMBER: P821272
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	*56.6*
2.5°	57.3	57.3	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	*58.1*
5°	59.5	59.5	59.5	59.5	60.3	60.3	59.5	59.5	59.5	59.5	*59.5*
7.5°	63.2	62.5	63.2	63.2	63.2	62.5	62.5	62.5	61.7	61.7	*61.7*
10°	66.9	66.9	67.6	66.9	66.9	66.1	66.1	66.1	65.4	65.4	*65.4*
12.5°	72.0	72.0	72.0	72.0	71.3	71.3	70.5	69.8	69.1	69.1	*69.1*
15°	78.6	77.9	77.9	77.2	76.4	75.7	75.0	75.0	74.2	74.2	*74.2*
17.5°	85.2	85.2	84.5	83.8	82.3	81.6	81.6	80.8	80.1	80.1	*80.1*
20°	93.3	93.3	92.6	91.1	89.7	88.9	88.2	88.2	87.4	87.4	*87.4*
22.5°	102.9	102.1	100.7	99.2	97.7	97.0	96.3	95.5	95.5	95.5	*95.5*
25°	113.2	112.4	111.7	109.5	107.3	106.6	105.1	105.1	104.3	105.1	*105.1*
27.5°	125.7	124.9	123.5	121.2	118.3	116.8	116.1	116.1	116.8	116.8	*117.6*
30°	141.1	139.6	138.1	135.2	132.3	130.1	130.1	130.8	133.0	134.5	*134.5*
32.5°	159.5	158.7	156.5	153.6	148.4	147.0	148.4	152.8	155.8	158.0	*159.5*
35°	180.8	180.0	177.1	172.0	168.3	167.5	172.0	179.3	188.9	191.8	*193.3*
37.5°	204.3	205.0	201.3	195.5	191.8	193.3	202.1	216.0	225.6	232.2	*233.7*
40°	233.7	235.1	230.7	224.1	220.5	226.3	240.3	256.5	273.4	281.4	*283.6*
42.5°	268.2	270.4	264.5	257.9	255.7	265.3	285.1	311.6	341.7	351.3	*354.9*
45°	310.8	312.3	305.0	299.1	297.6	314.5	348.3	392.4	440.2	462.2	*465.9*
47.5°	361.5	360.8	354.2	346.8	348.3	372.6	423.3	482.8	533.5	567.3	*574.6*
50°	419.6	415.9	410.8	402.0	411.5	446.8	510.7	582.7	668.0	698.1	*711.3*
52.5°	477.6	471.0	466.6	460.7	477.6	523.2	612.9	738.5	867.1	936.2	*950.1*
55°	529.8	524.7	522.5	523.2	549.7	615.1	732.6	893.6	1017.8	1075.1	*1085.4*
57.5°	581.3	578.3	576.1	580.5	622.4	707.7	839.9	990.6	1092.7	1135.3	*1142.7*
60°	629.8	632.7	631.2	644.5	695.2	781.1	895.8	1044.2	1142.7	1181.6	*1189.7*
62.5°	683.4	685.6	685.6	700.3	741.5	817.1	934.0	1107.4	1232.3	1289.6	*1298.5*
65°	*729.7*	*731.2*	*734.1*	*734.8*	*773.1*	*848.7*	*1001.6*	*1165.5*	*1277.2*	*1343.3*	*1349.2*
67.5°	764.2	765.7	762.0	758.4	787.7	856.1	996.4	1158.1	1257.3	1307.3	*1311.7*
70°	792.2	785.5	775.3	756.9	766.4	817.9	953.8	1099.3	1199.3	1244.1	*1250.7*
72.5°	795.8	790.0	757.6	716.5	704.7	749.5	878.9	1009.7	1095.6	1138.3	*1139.0*
75°	773.8	758.4	704.7	643.0	620.9	663.6	774.5	893.6	962.6	998.6	*1002.3*
77.5°	699.6	684.9	617.3	546.7	521.7	558.5	652.5	748.8	814.9	850.2	*852.4*
80°	568.0	562.9	501.2	436.5	406.4	427.7	510.0	585.7	639.3	681.2	*684.9*
82.5°	418.9	414.4	367.4	310.8	286.6	304.2	363.0	418.9	468.8	502.6	*504.8*
85°	261.6	252.8	223.4	183.7	167.5	179.3	218.2	255.7	300.5	327.0	*328.5*
87.5°	87.4	83.8	72.0	59.5	50.0	52.2	63.9	77.9	113.9	125.7	*133.0*
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: P821272
CATALOG NUMBER: TT-D1-740-24VDC-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

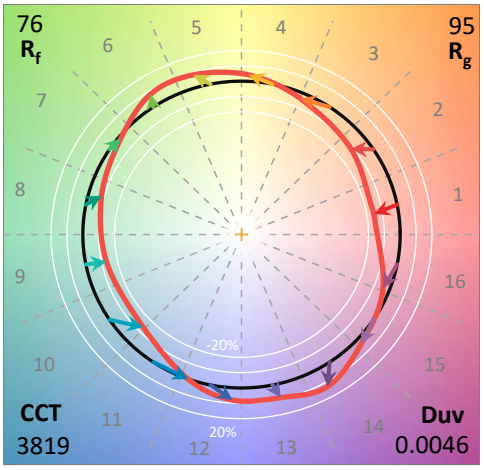
Test Information

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

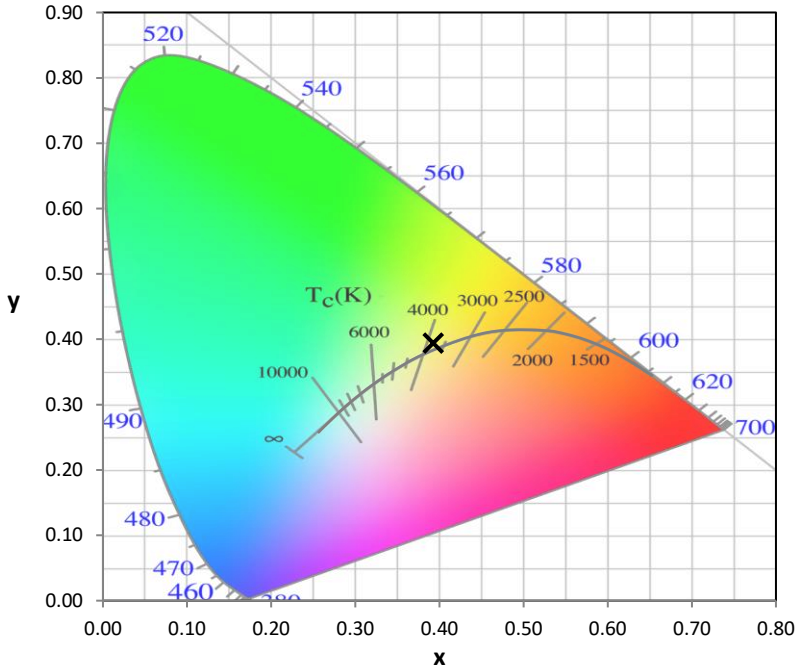
Stabilization Time:	30M
Operation Time:	1H 30M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-176-5

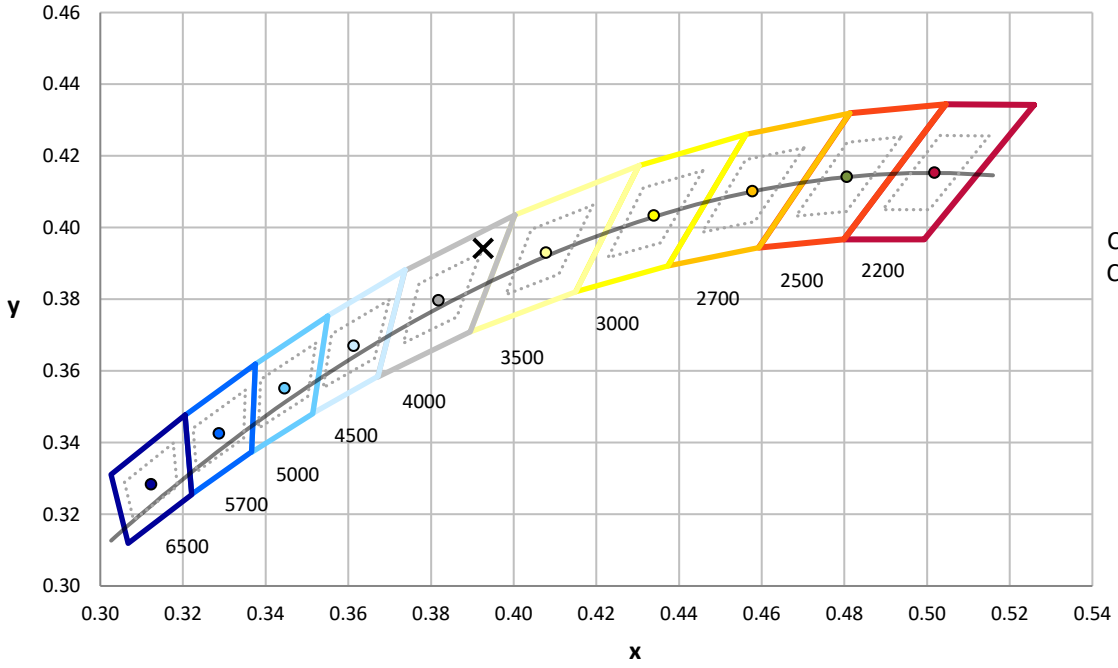
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

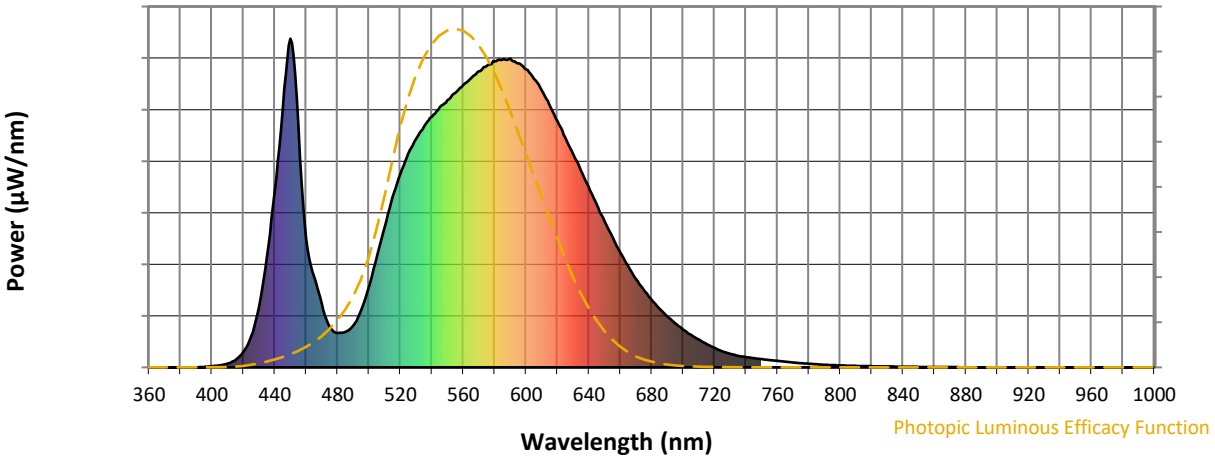


CCT = 3819K
CIE x = 0.3926
CIE y = 0.3942
Duv = 0.0046

Point lies inside the ANSI 4000K 7-step quadrangle

REPORT NUMBER: SP1-2407-176-5

Photopic Flux vs. Wavelength

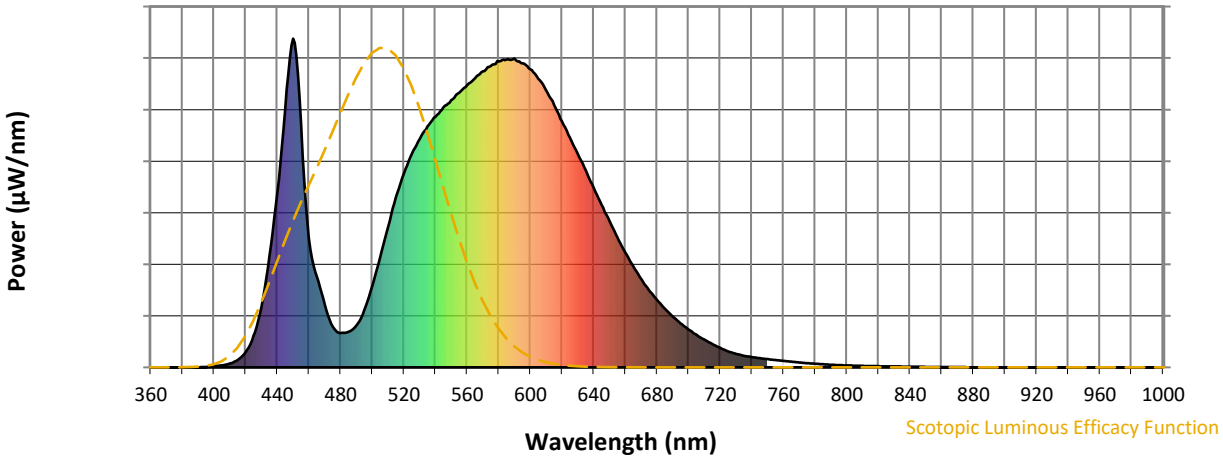


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2407-176-5

Scotopic Flux vs. Wavelength

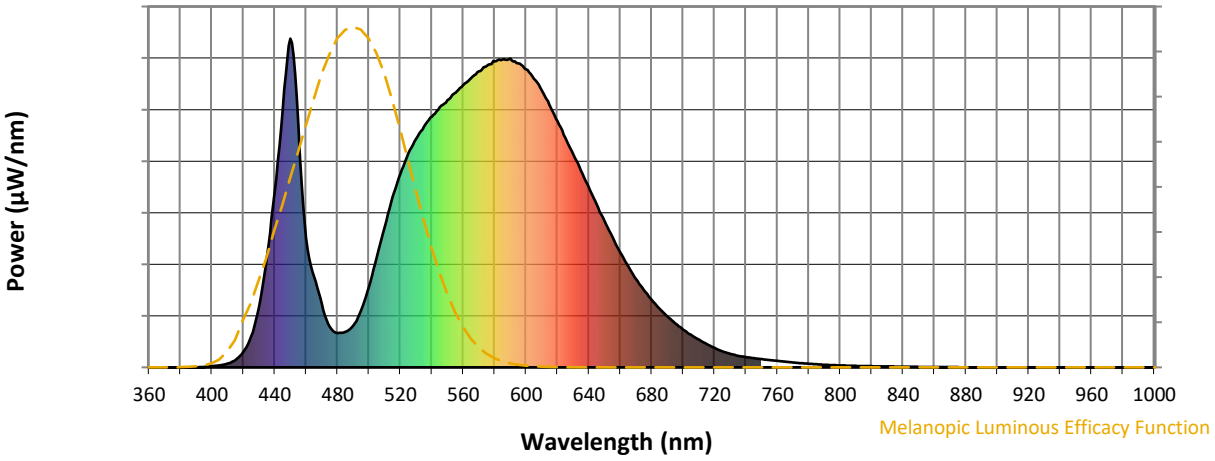


Scotopic Lumens: NR **S/P: 1.45**

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			

REPORT NUMBER: SP1-2407-176-5

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			

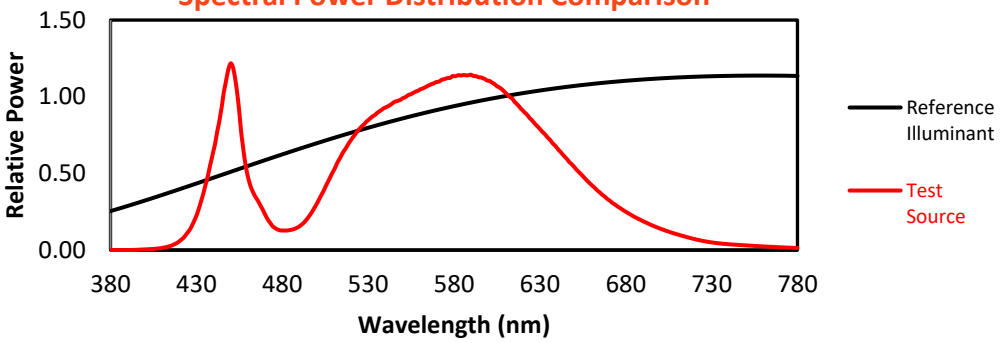
REPORT NUMBER: SP1-2407-176-5

TM-30-18

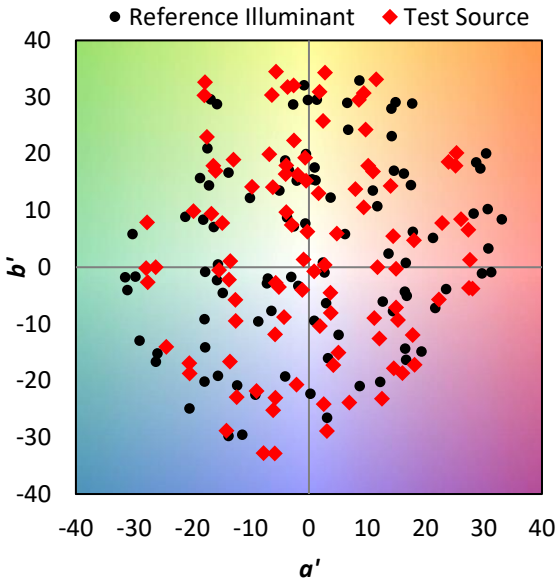
Summary

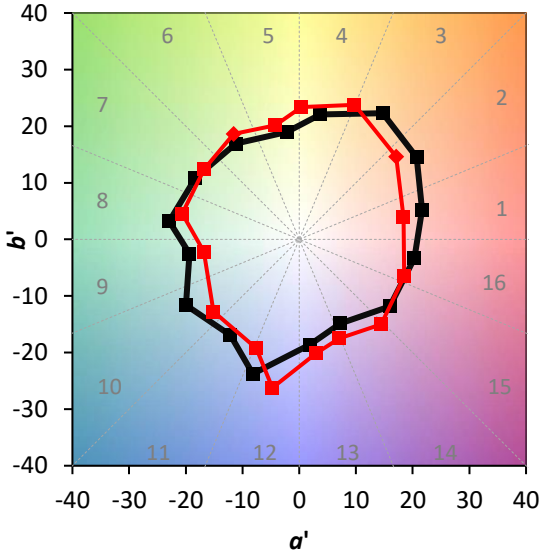
R_f = 75.6
R_g = 94.8
CIE R_a = 72.9
R_9 = -21.5

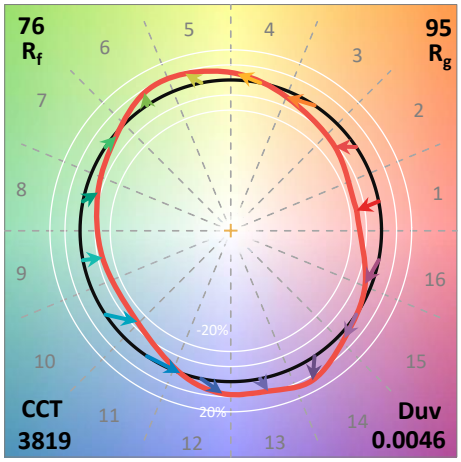
Spectral Power Distribution Comparison

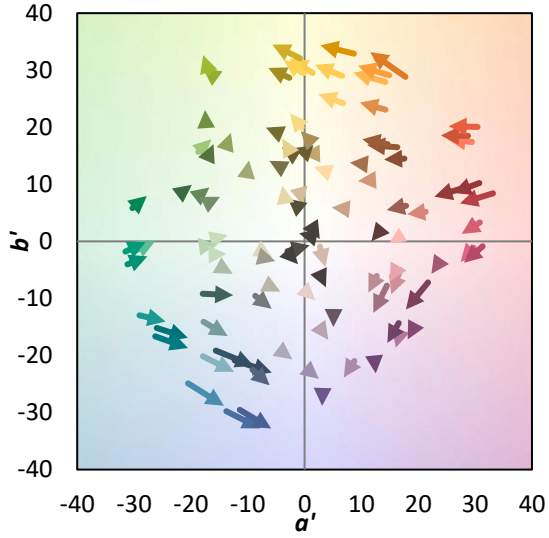


Color Vector Graphics







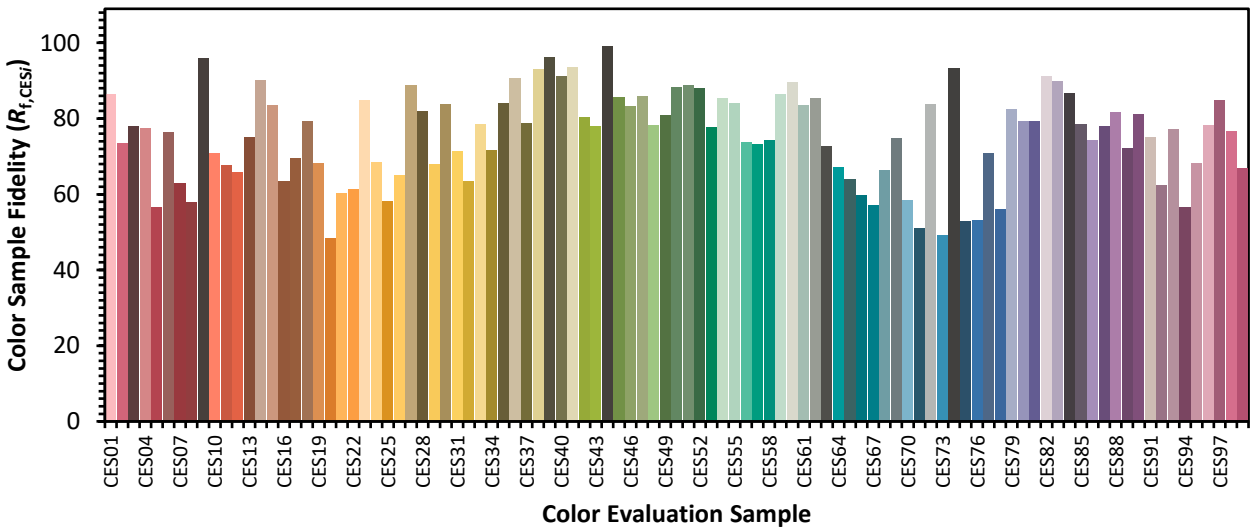


REPORT NUMBER: SP1-2407-176-5

TM-30-18

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

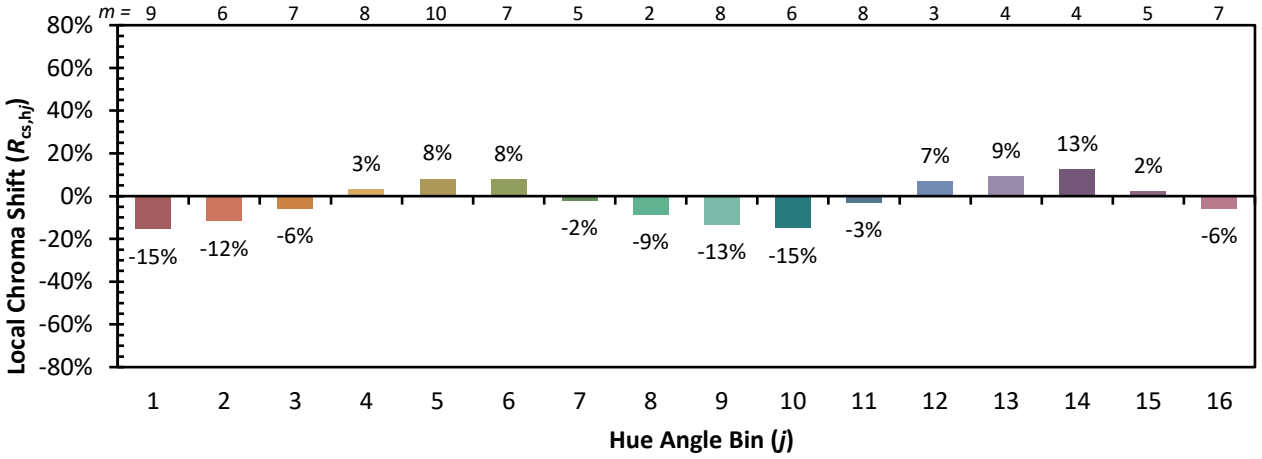
CES01 = 85	CES26 = 65	CES51 = 89	CES76 = 53
CES02 = 61	CES27 = 89	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 82	CES53 = 78	CES78 = 56
CES04 = 70	CES29 = 68	CES54 = 85	CES79 = 83
CES05 = 48	CES30 = 84	CES55 = 84	CES80 = 79
CES06 = 50	CES31 = 71	CES56 = 74	CES81 = 79
CES07 = 40	CES32 = 63	CES57 = 73	CES82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

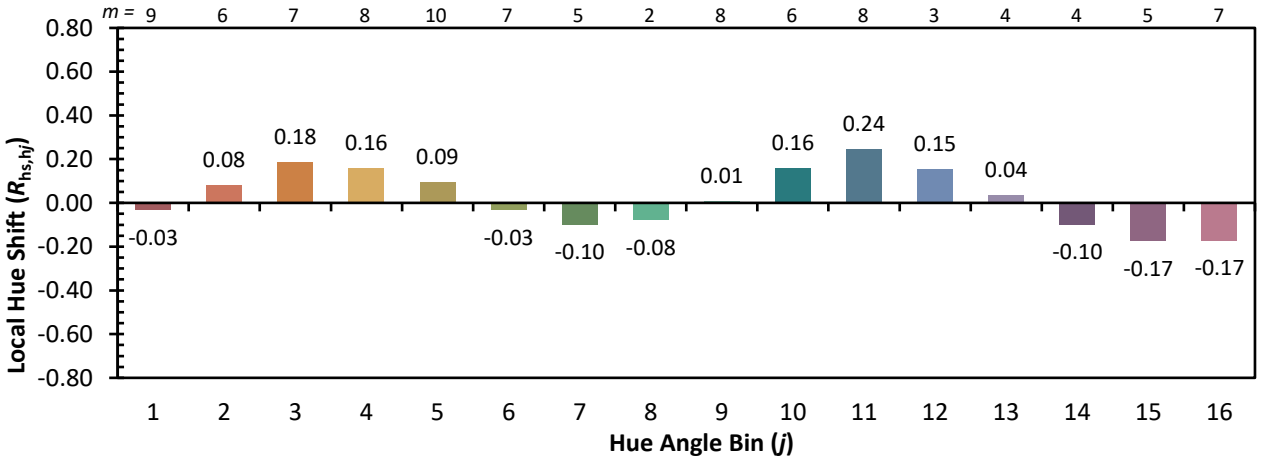


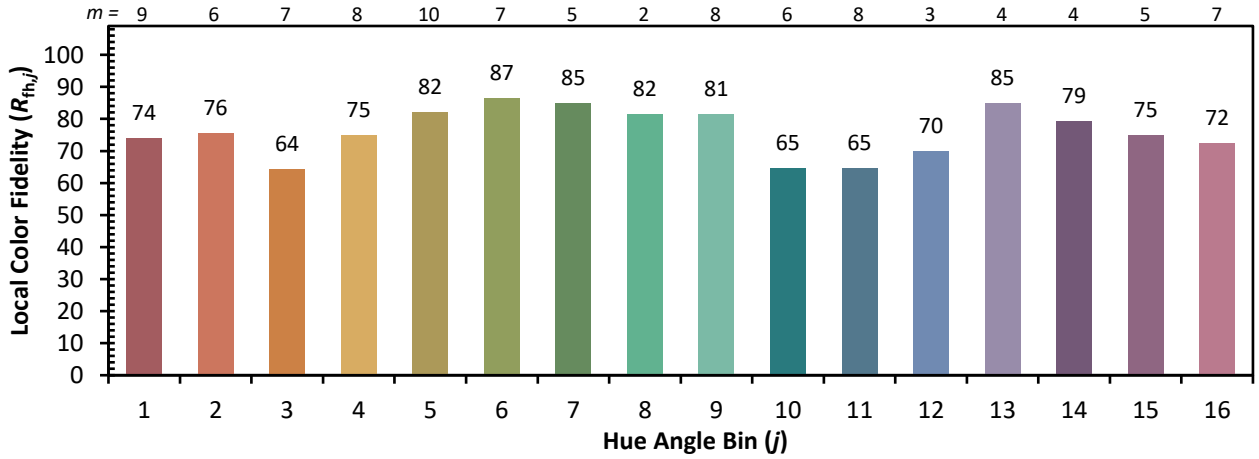
REPORT NUMBER: SP1-2407-176-5

TM-30-18

Color Rendition by Hue-Angle Bin



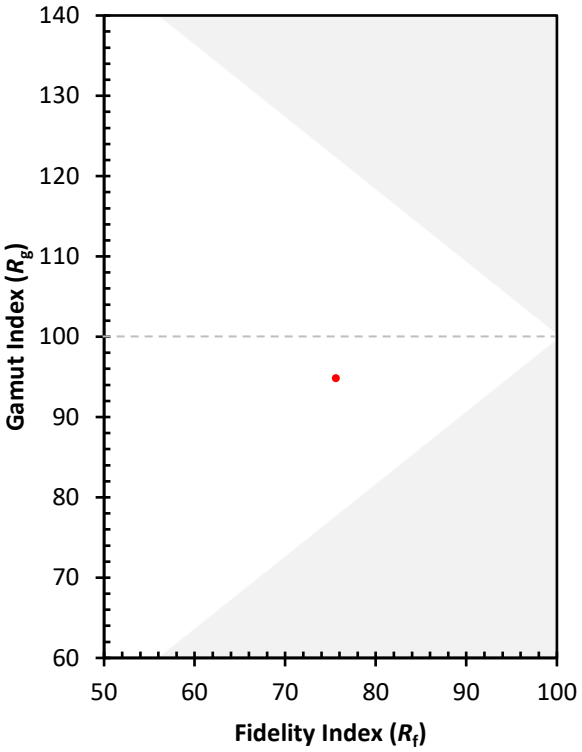


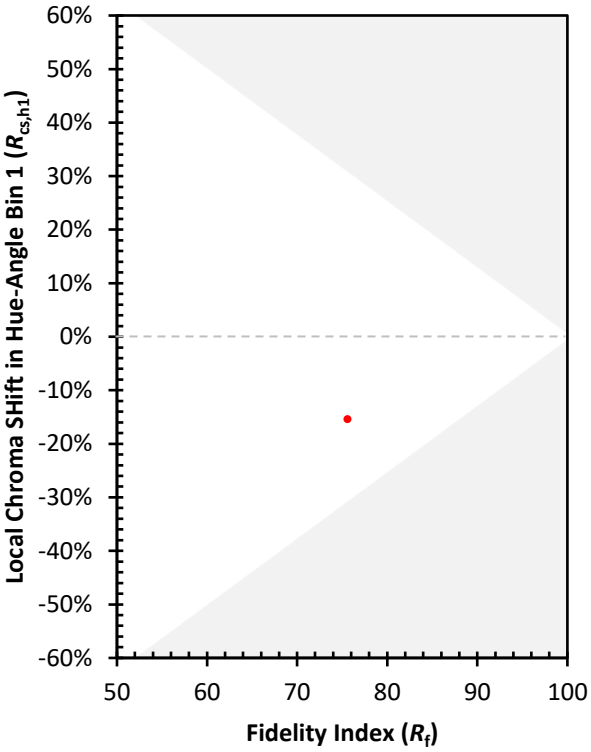


REPORT NUMBER: SP1-2407-176-5

TM-30-18

Measure Comparisons





(END OF REPORT)