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: P821397

Luminaire Tested: **TT-D5-750-24VDC-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:	P821397
	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-D5-750-24VDC-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:	10319.4 lumens
Efficiency:	N/A
Efficacy:	141.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification:	Type V - Short
BUG Rating:	B3 - U4 - G1

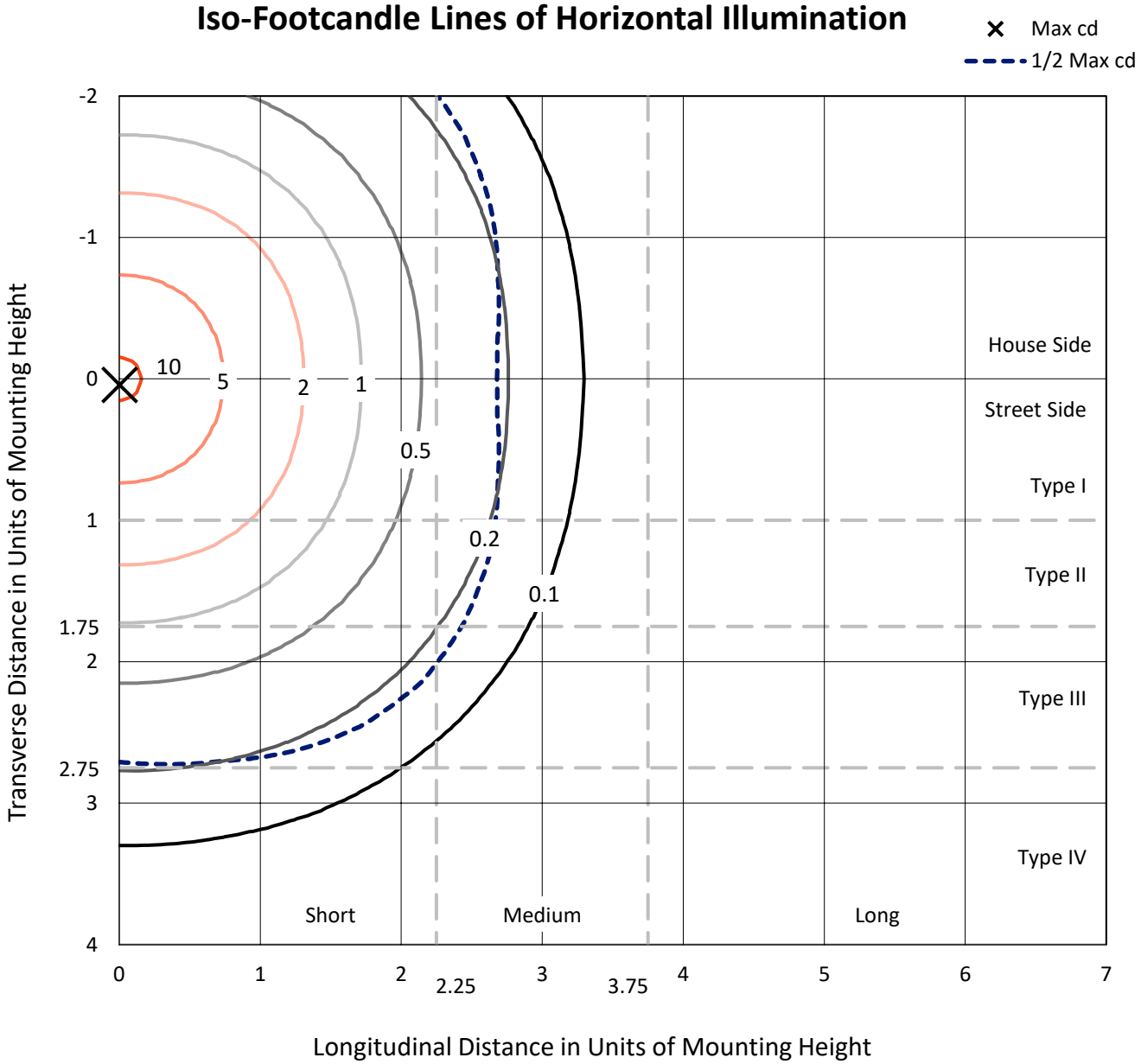
Input Watts (W):	73
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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Scaled Data Report

REPORT NUMBER: P821397
CATALOG NUMBER: TT-D5-750-24VDC-CQ-UPL

Iso-Footcandle Lines of Horizontal Illumination



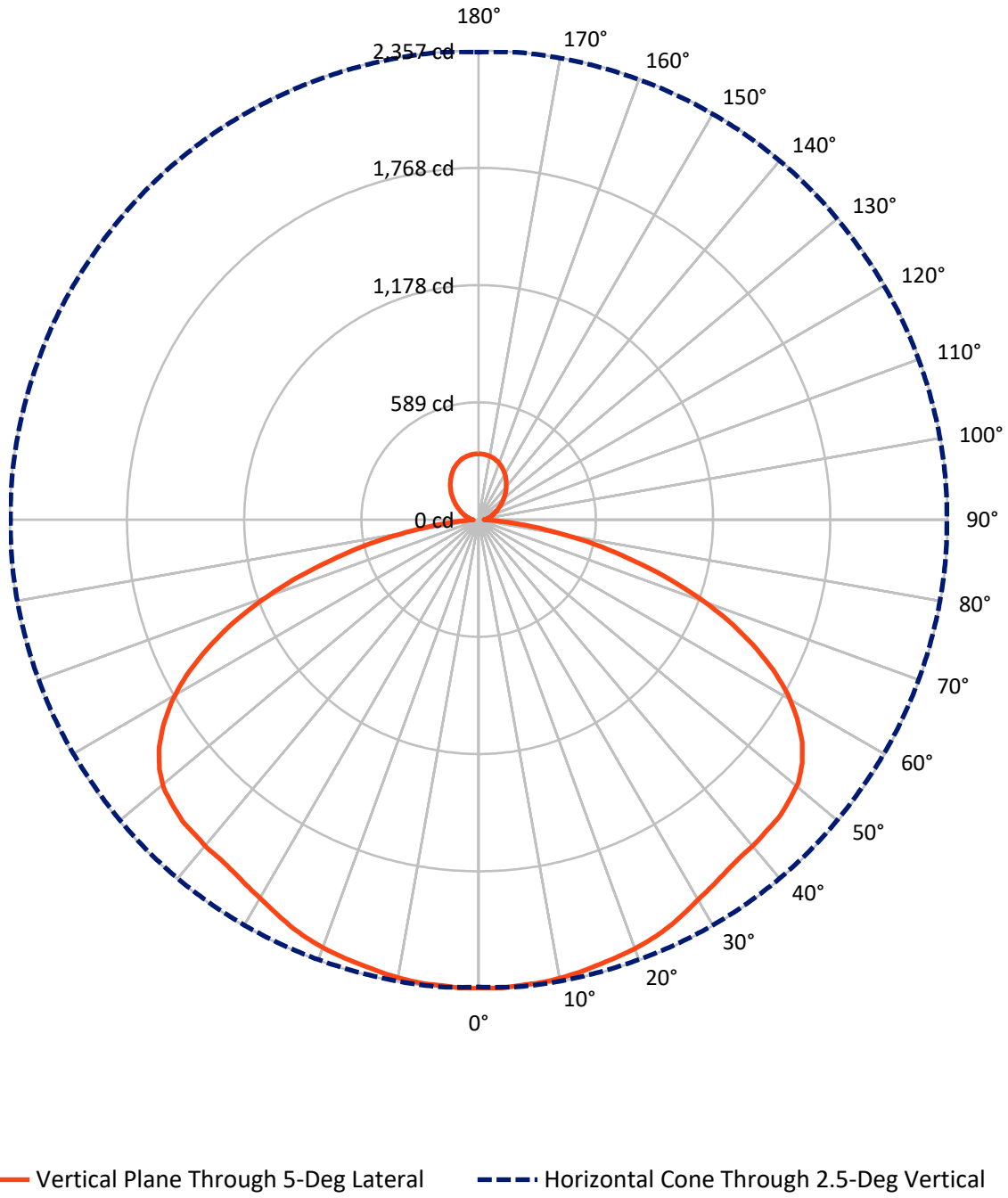
Based on 15 foot mounting height. Maximum calculated value = 10.5 fc
Type V - Short - N/A

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REPORT NUMBER: P821397
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Luminous Intensity Polar Plot



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Scaled Data Report

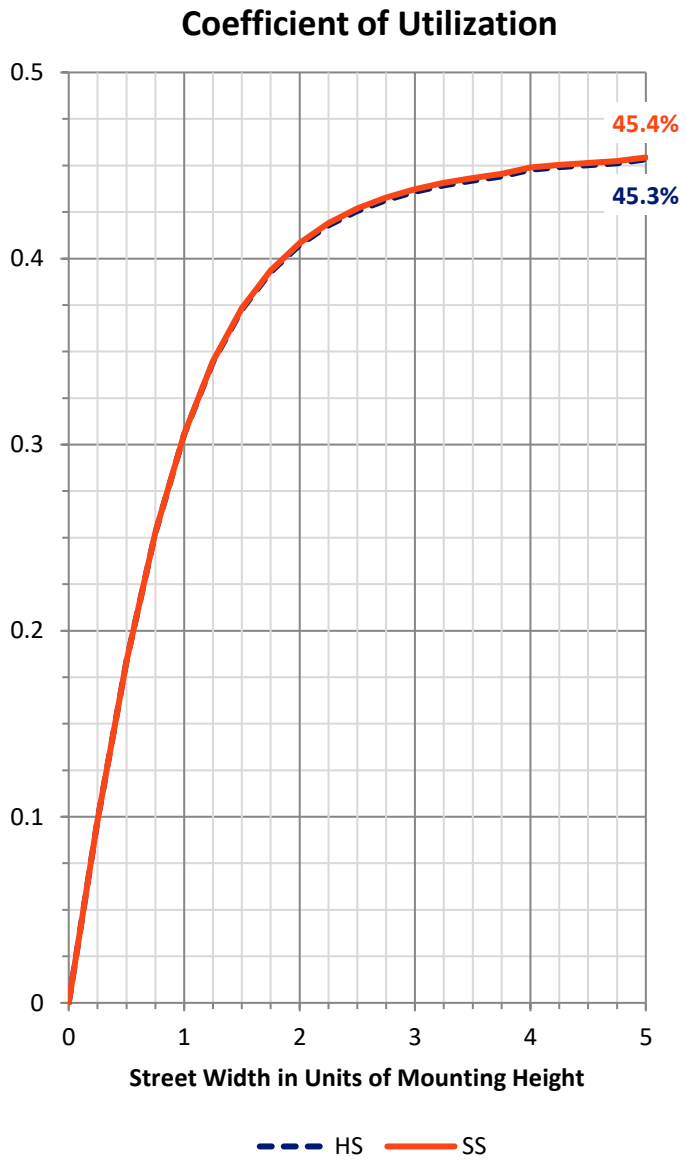
REPORT NUMBER: P821397
CATALOG NUMBER: TT-D5-750-24VDC-CQ-UPL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4709.7	450.0	5159.7
	% Fixture	45.6	4.4	50.0
Street Side	Lumens	4709.7	450.0	5159.7
	% Fixture	45.6	4.4	50.0
Total	Lumens	9419.3	900.0	10319.4
	% Fixture	91.3	8.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.0	2.2
10°-20°	656.1	6.4
20°-30°	1043.3	10.1
30°-40°	1372.5	13.3
40°-50°	1679.8	16.3
50°-60°	1819.5	17.6
60°-70°	1565.3	15.2
70°-80°	880.0	8.5
80°-90°	178.8	1.7
90°-100°	46.1	0.4
100°-110°	71.4	0.7
110°-120°	99.4	1.0
120°-130°	128.8	1.2
130°-140°	150.0	1.5
140°-150°	152.1	1.5
150°-160°	131.9	1.3
160°-170°	89.0	0.9
170°-180°	31.3	0.3
0°-90°	9419.3	91.3
0°-180°	10319.4	100.0



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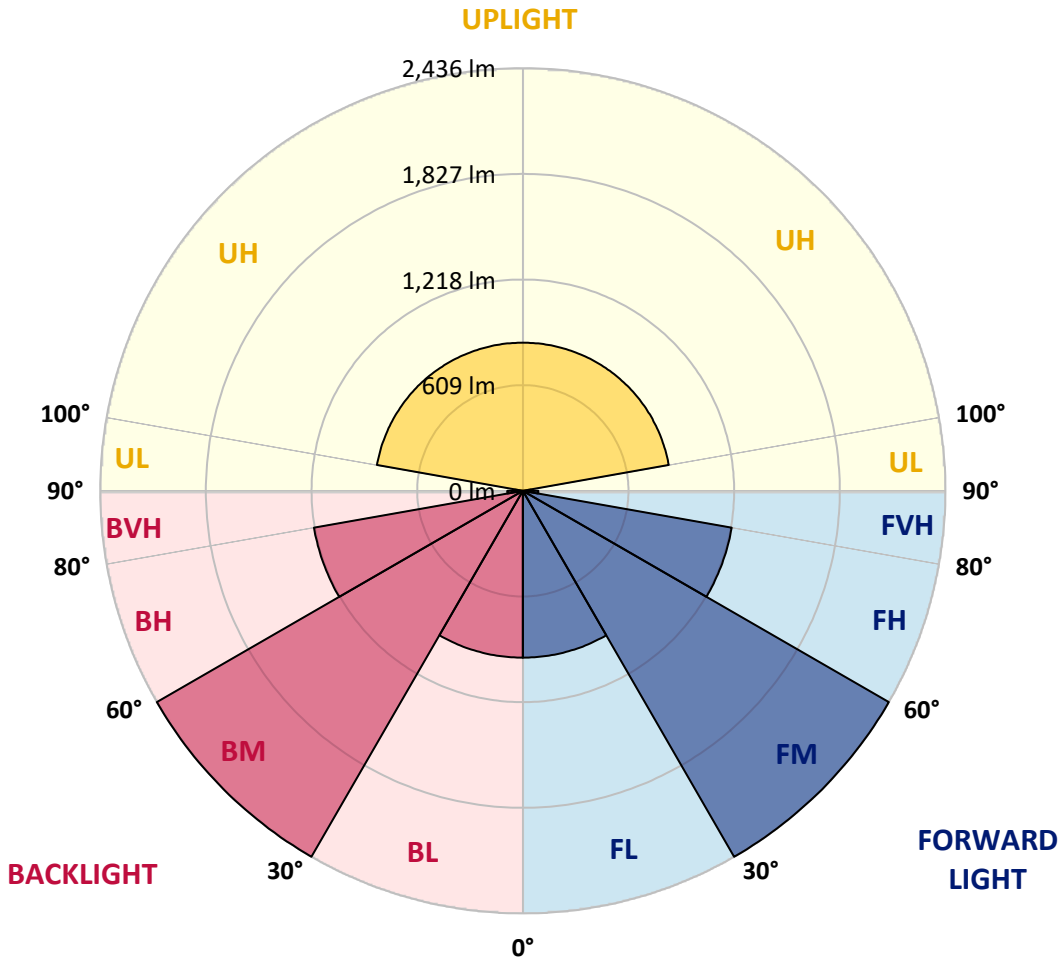
Scaled Data Report

REPORT NUMBER: P821397
CATALOG NUMBER: TT-D5-750-24VDC-CQ-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	961.7	9.3			
FM	(30°-60°)	2435.9	23.6			
FH	(60°-80°)	1222.7	11.8			G1/1800
FVH	(80°-90°)	89.4	0.9			G1/100
BL	(0°-30°)	961.7	9.3	B2/1000		
BM	(30°-60°)	2435.9	23.6	B2/2500		
BH	(60°-80°)	1222.7	11.8	B3/2500		G1/1800
BVH	(80°-90°)	89.4	0.9			G1/100
UL	(90°-100°)	46.1	0.4		U2/50	
UH	(100°-180°)	853.9	8.3		U4/1000	

BUG Rating: B3-U4-G1
Type V Short



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REPORT NUMBER: P821397
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2355.4	2355.4	2355.4	2355.4	2355.4	2355.4	2355.4	2355.4	2355.4	2355.4	2355.4
2.5°	2349.4	2356.9	2353.9	2353.9	2353.9	2353.9	2350.9	2353.9	2353.9	2355.4	2353.9
5°	2350.9	2349.4	2349.4	2350.9	2350.9	2352.4	2349.4	2350.9	2352.4	2352.4	2353.9
7.5°	2346.4	2347.9	2344.9	2347.9	2344.9	2346.4	2346.4	2347.9	2346.4	2347.9	2350.9
10°	2337.4	2338.9	2337.4	2337.4	2337.4	2340.4	2334.4	2338.9	2337.4	2338.9	2337.4
12.5°	2320.9	2328.4	2325.4	2328.4	2328.4	2328.4	2323.9	2326.9	2328.4	2328.4	2328.4
15°	2313.4	2314.9	2310.4	2316.4	2317.9	2319.4	2313.4	2316.4	2316.4	2317.9	2319.4
17.5°	2296.9	2304.4	2302.9	2307.4	2305.9	2310.4	2308.9	2307.4	2305.9	2308.9	2305.9
20°	2284.9	2292.4	2290.9	2295.4	2296.9	2301.4	2296.9	2296.9	2292.4	2293.9	2298.4
22.5°	2272.9	2275.9	2275.9	2280.4	2280.4	2284.9	2280.4	2278.9	2278.9	2277.4	2281.9
25°	2253.5	2255.0	2253.5	2258.0	2261.0	2264.0	2262.5	2259.5	2258.0	2258.0	2256.5
27.5°	2222.0	2228.0	2231.0	2237.0	2238.5	2243.0	2237.0	2237.0	2234.0	2231.0	2232.5
30°	2198.0	2201.0	2201.0	2214.5	2214.5	2222.0	2214.5	2213.0	2211.5	2210.0	2207.0
32.5°	2175.6	2180.1	2184.5	2195.0	2202.5	2205.5	2201.0	2198.0	2190.5	2186.0	2184.5
35°	2157.6	2159.1	2168.1	2183.1	2192.0	2199.5	2193.5	2186.0	2175.6	2168.1	2174.1
37.5°	2144.1	2145.6	2159.1	2178.6	2195.0	2201.0	2192.0	2180.1	2163.6	2154.6	2151.6
40°	2132.1	2141.1	2156.1	2183.1	2201.0	2210.0	2202.5	2186.0	2162.1	2144.1	2142.6
42.5°	2126.1	2130.6	2153.1	2184.5	2210.0	2222.0	2211.5	2189.0	2159.1	2138.1	2136.6
45°	2111.1	2124.6	2145.6	2186.0	2214.5	2229.5	2214.5	2186.0	2150.1	2126.1	2121.6
47.5°	2099.1	2103.6	2136.6	2183.1	2217.5	2229.5	2214.5	2178.6	2133.6	2102.1	2099.1
50°	2070.7	2081.2	2114.1	2163.6	2204.0	2216.0	2198.0	2150.1	2099.1	2064.7	2058.7
52.5°	2027.2	2036.2	2075.2	2136.6	2175.6	2189.0	2162.1	2111.1	2051.2	2009.2	2009.2
55°	1959.8	1973.3	2013.7	2076.7	2126.1	2138.1	2106.6	2052.7	1985.3	1943.3	1941.8
57.5°	1878.9	1887.9	1931.3	2000.3	2048.2	2066.2	2034.7	1974.8	1907.4	1857.9	1853.4
60°	1774.0	1786.0	1832.4	1898.4	1947.8	1962.8	1935.8	1875.9	1807.0	1754.5	1754.5
62.5°	1648.2	1661.6	1708.1	1775.5	1826.5	1848.9	1811.5	1754.5	1682.6	1631.7	1627.2
65°	1501.3	1513.3	1555.3	1625.7	1678.1	1694.6	1666.1	1606.2	1537.3	1489.3	1484.8
67.5°	1336.5	1353.0	1394.9	1454.9	1499.8	1520.8	1502.8	1448.9	1377.0	1327.5	1323.0
70°	1158.2	1170.2	1203.2	1258.6	1309.5	1324.5	1297.5	1261.6	1194.2	1149.2	1143.2
72.5°	967.9	978.4	1005.4	1057.8	1093.8	1113.3	1098.3	1051.8	997.9	960.4	966.4
75°	776.1	774.6	804.6	842.1	875.0	888.5	878.0	848.0	798.6	767.1	765.6
77.5°	584.3	599.3	609.8	641.3	668.3	678.7	663.8	639.8	602.3	576.9	581.3
80°	410.5	401.5	421.0	440.5	458.5	469.0	460.0	446.5	421.0	401.5	398.6
82.5°	251.7	244.2	253.2	271.2	283.2	286.2	287.7	271.2	260.7	245.7	248.7
85°	110.9	112.4	119.9	131.9	133.4	134.8	134.8	131.9	119.9	118.4	115.4
87.5°	27.0	27.0	28.5	33.0	33.0	34.5	34.5	30.0	28.5	25.5	27.0
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: P821397
CATALOG NUMBER: TT-D5-750-24VDC-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

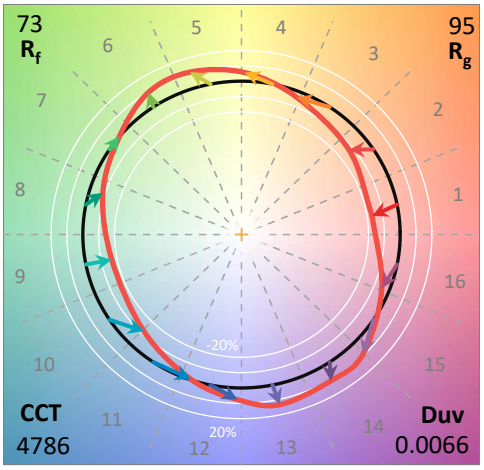
Test Information

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

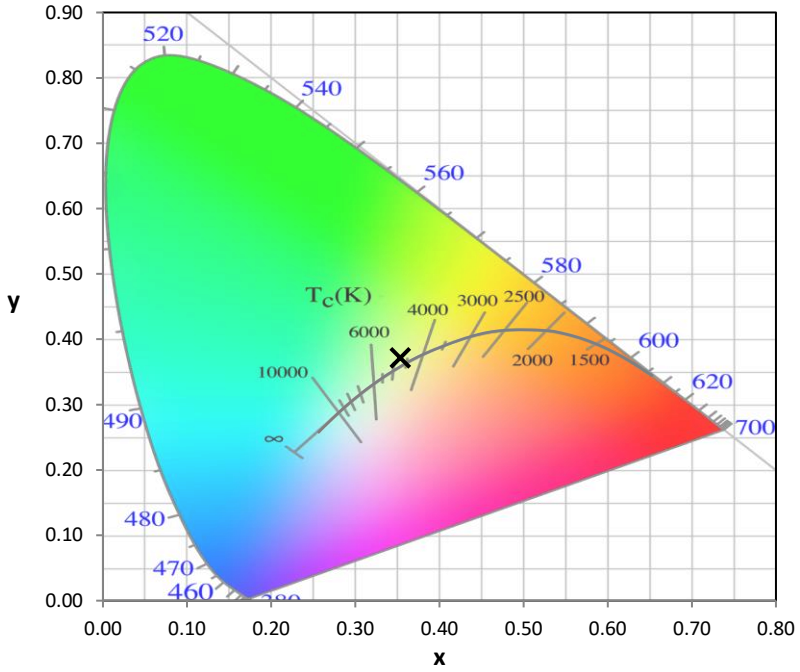
Stabilization Time:	45M
Operation Time:	1H 45M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-176-6

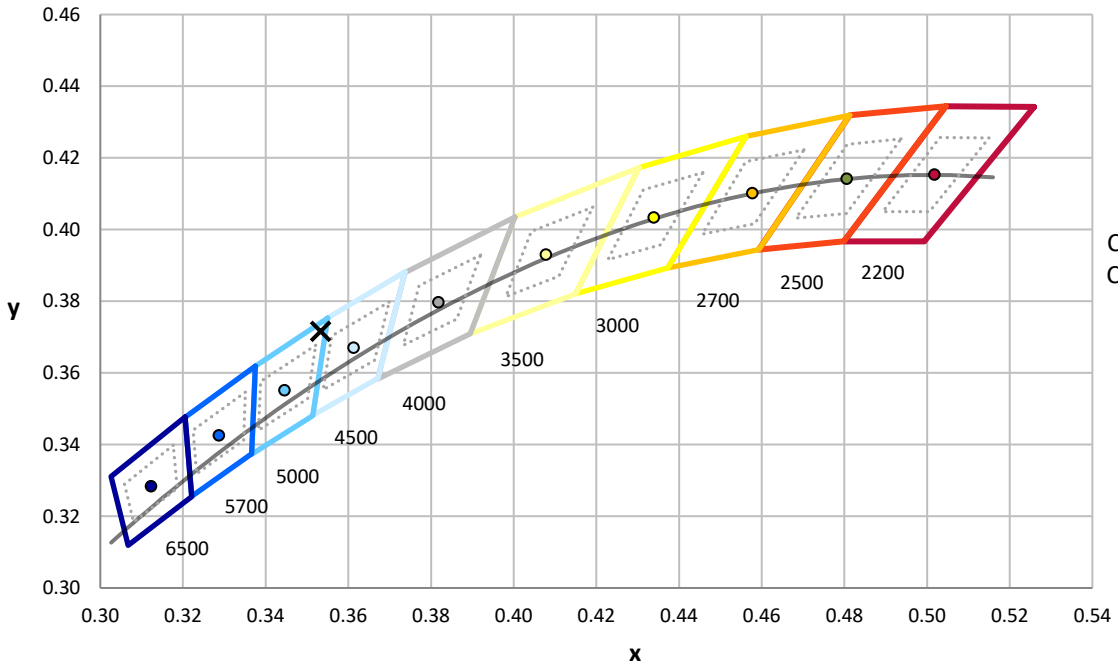
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

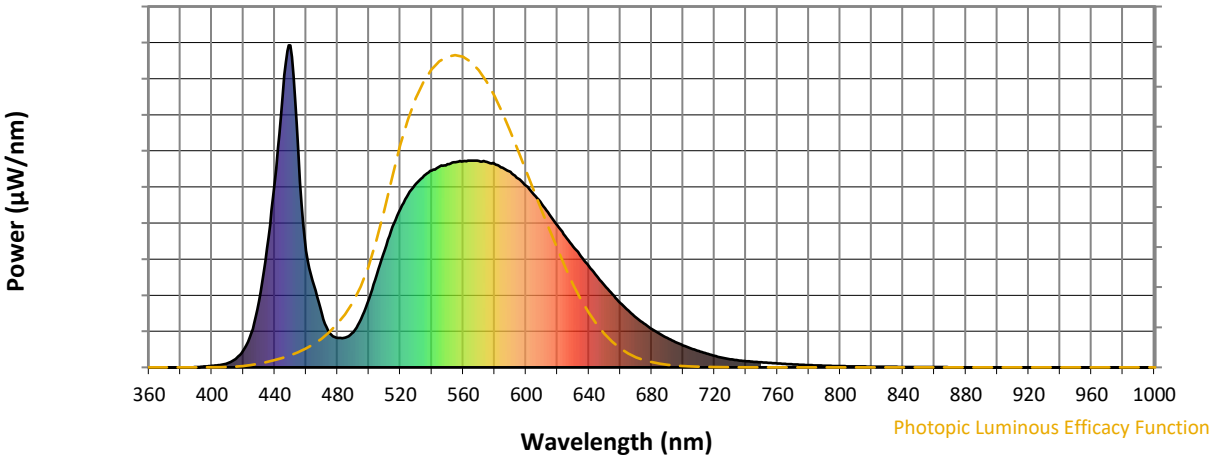


CCT = 4786K
CIE x = 0.3533
CIE y = 0.3716
Duv = 0.0066

Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-176-6

Photopic Flux vs. Wavelength

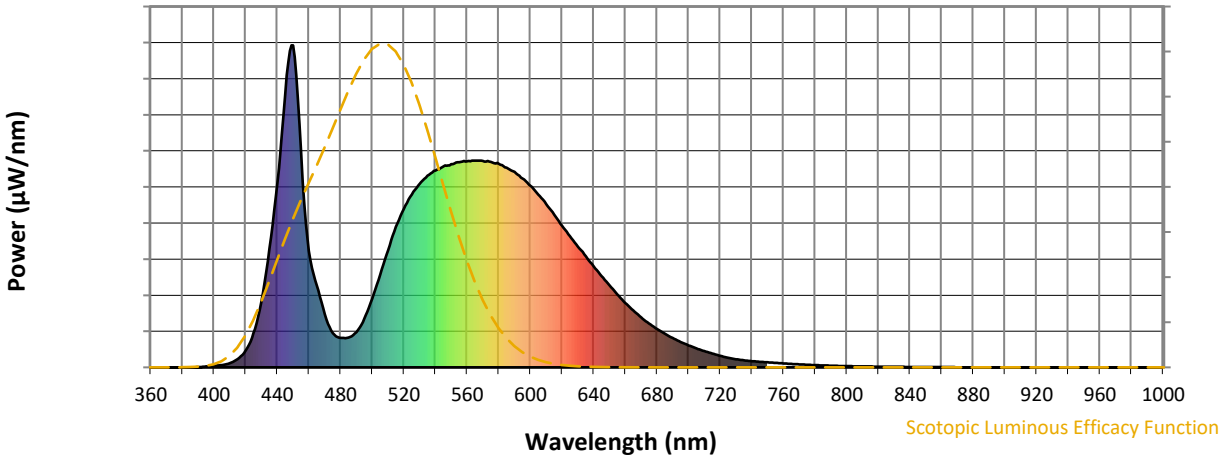


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2407-176-6

Scotopic Flux vs. Wavelength

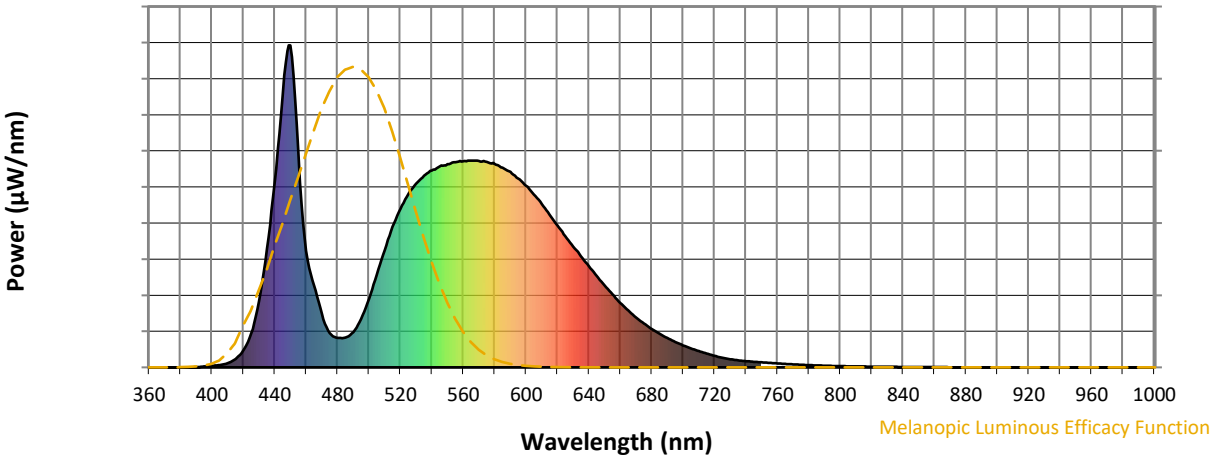


Scotopic Lumens: NR **S/P: 1.69**

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			

REPORT NUMBER: SP1-2407-176-6

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			

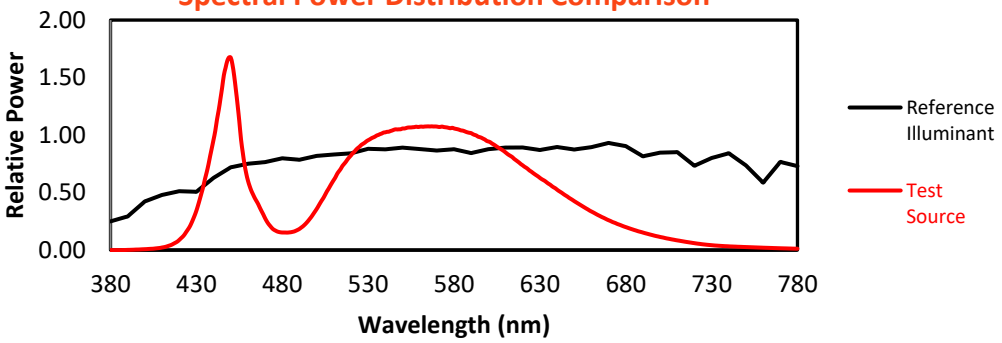
REPORT NUMBER: SP1-2407-176-6

TM-30-18

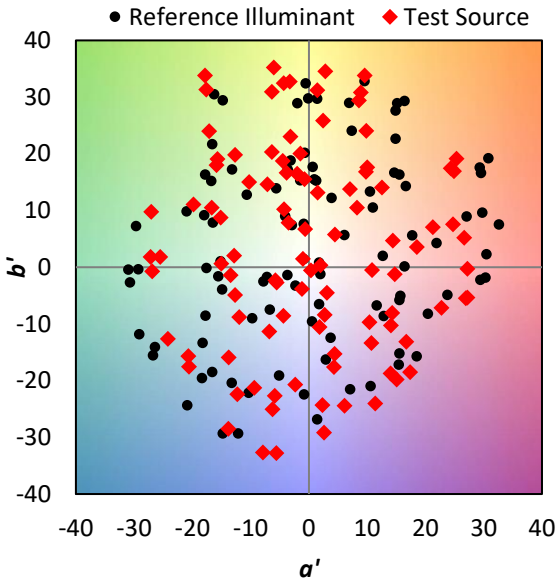
Summary

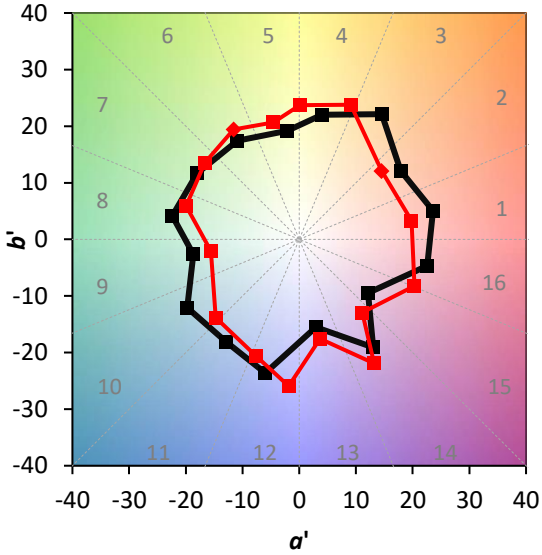
R_f = 73
R_g = 94.6
CIE R_a = 70.9
R_9 = -29.8

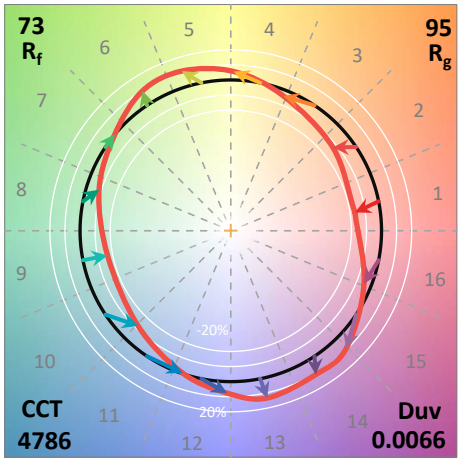
Spectral Power Distribution Comparison

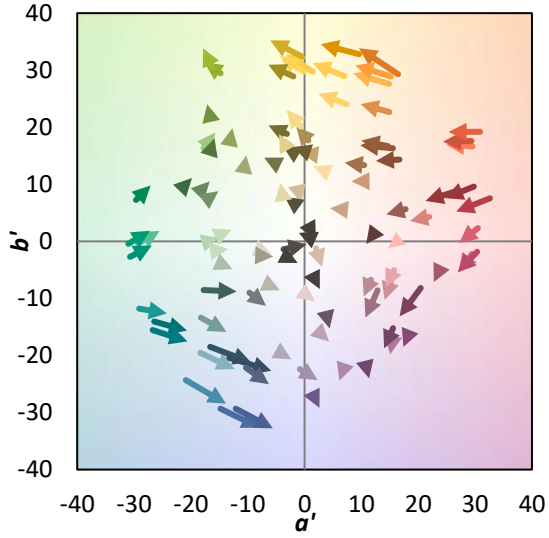


Color Vector Graphics







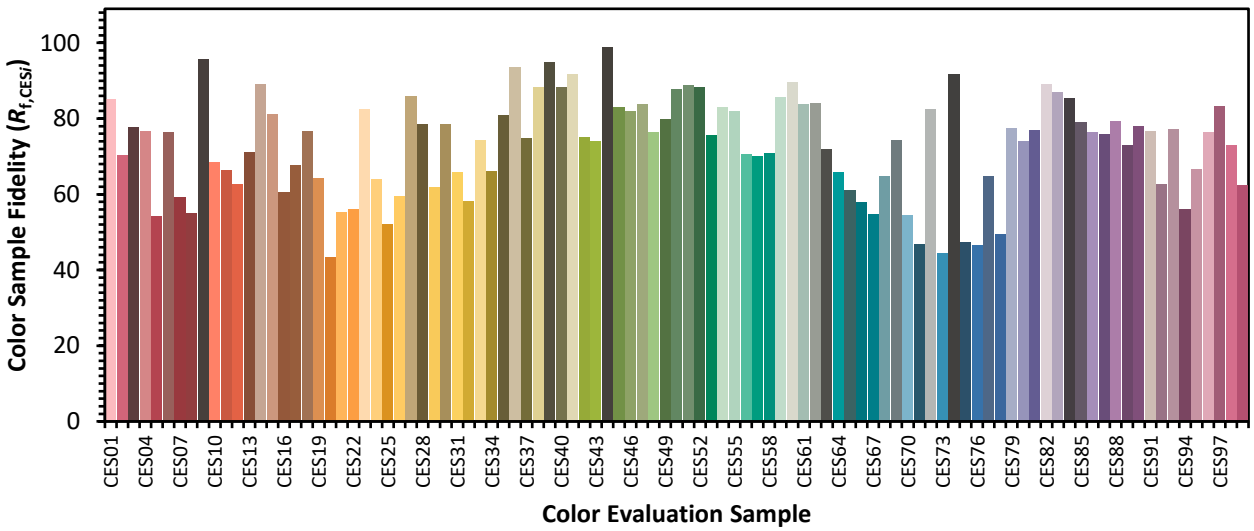


REPORT NUMBER: SP1-2407-176-6

TM-30-18

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

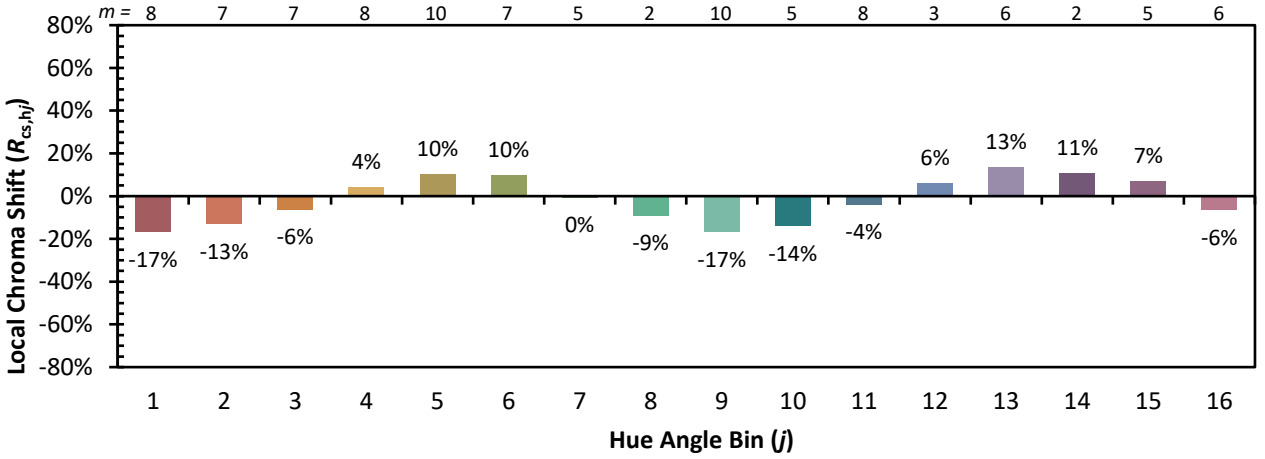
CES01 = 85	CES26 = 60	CES51 = 89	CES76 = 46
CES02 = 59	CES27 = 86	CES52 = 88	CES77 = 65
CES03 = 30	CES28 = 78	CES53 = 76	CES78 = 49
CES04 = 69	CES29 = 62	CES54 = 83	CES79 = 78
CES05 = 46	CES30 = 79	CES55 = 82	CES80 = 74
CES06 = 50	CES31 = 66	CES56 = 71	CES81 = 77
CES07 = 39	CES32 = 58	CES57 = 70	CES82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

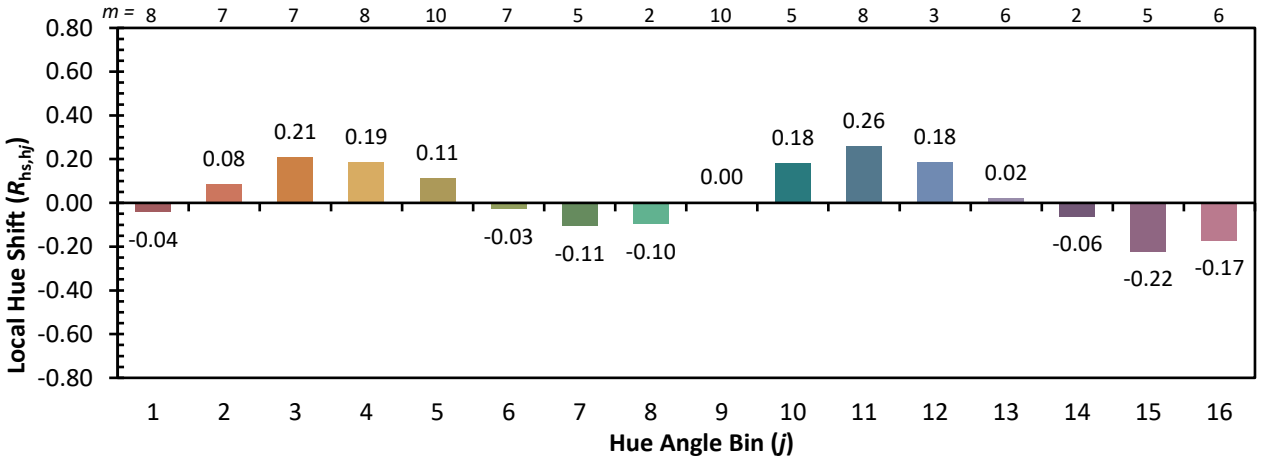


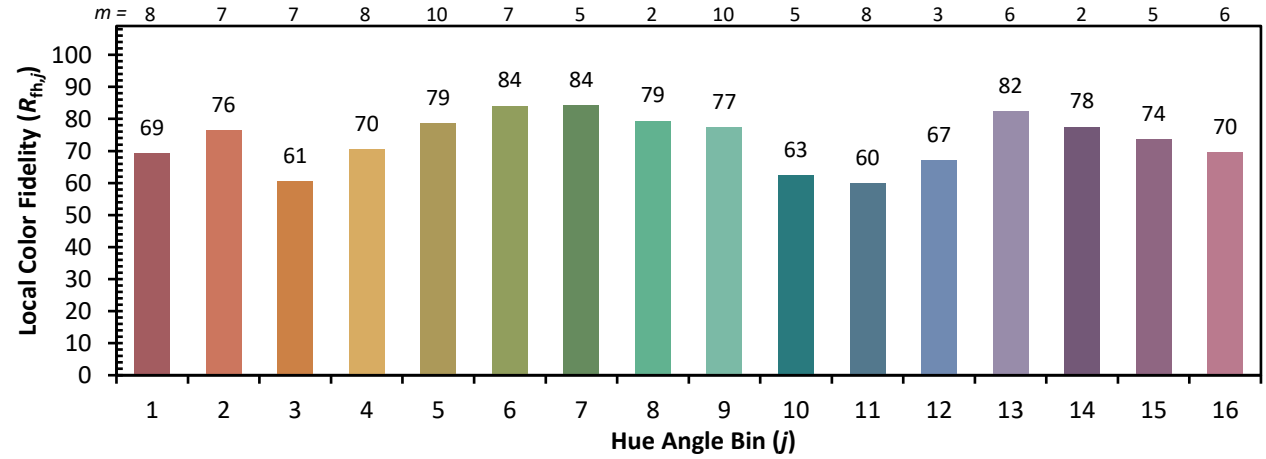
REPORT NUMBER: SP1-2407-176-6

TM-30-18

Color Rendition by Hue-Angle Bin



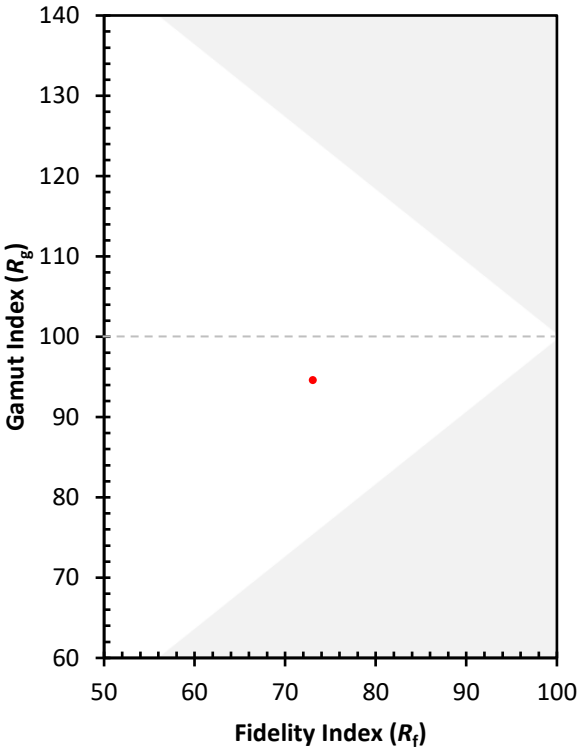


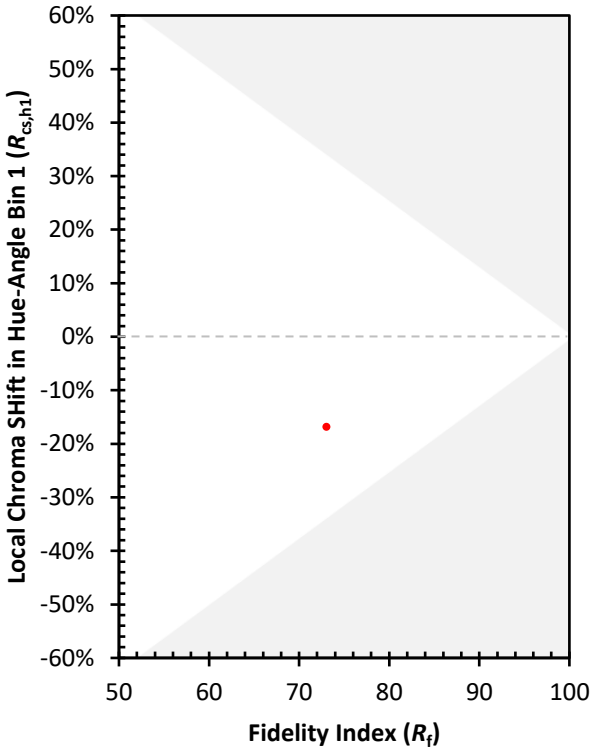


REPORT NUMBER: SP1-2407-176-6

TM-30-18

Measure Comparisons





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