

Signify Classified - Internal  
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: STREETWORKS

Report Number: P867482

Luminaire Tested: **MEM2-HTN-SA-110-730-U-T2R**

Issue Date: 08/21/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P867482  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/21/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: MEM2-HTN-SA-110-730-U-T2R  
Description: EPIC MODERN TALL HOUSING DISCRETE LED ARRAYS 110W 70CRI 3000K  
FIXTURE w/ TYPE II ROADWAY DISTRIBUTION OPTIC  
Light Source: (30) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

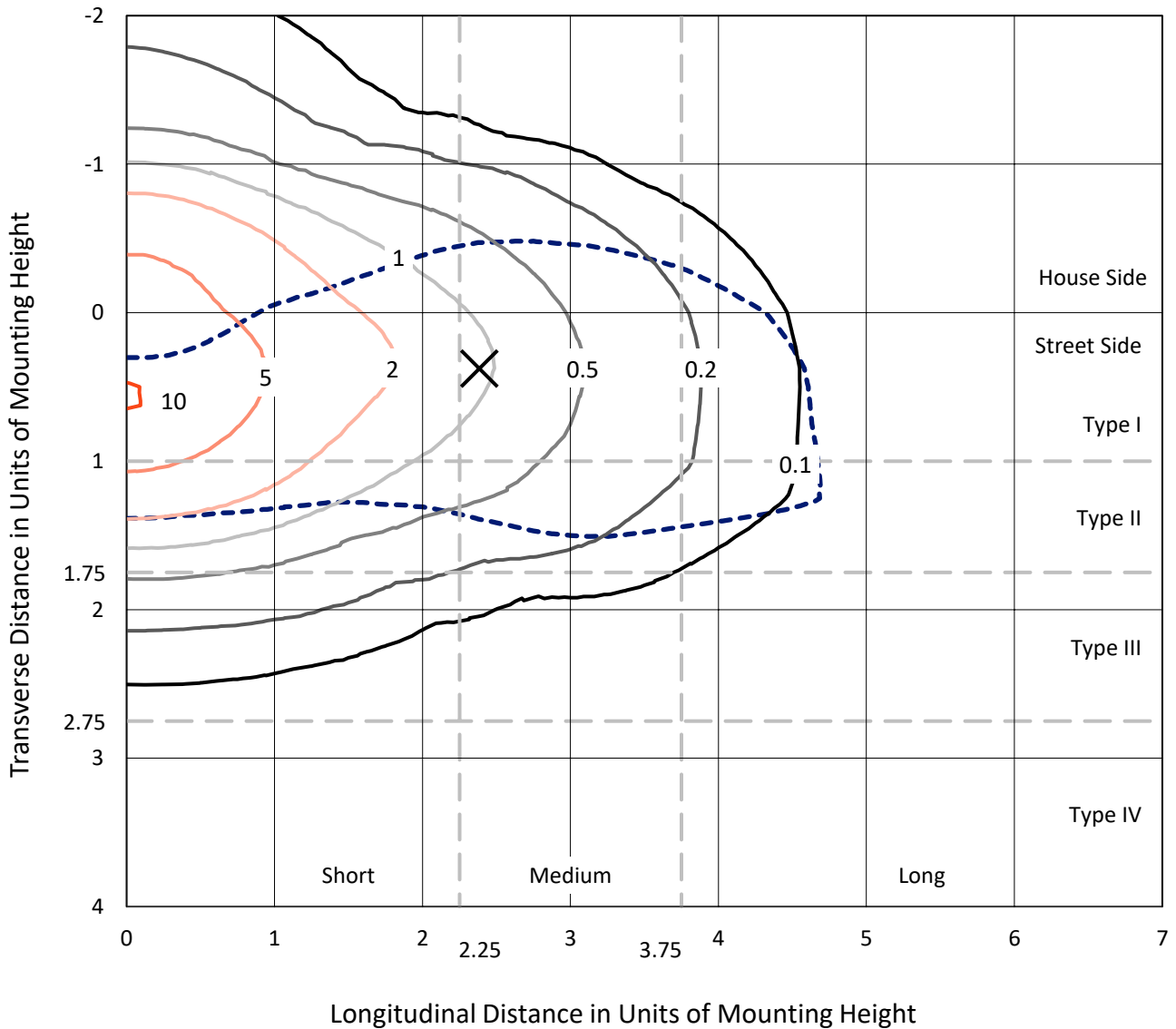
Lumens per Lamp: N/A  
Luminaire Lumens: 16006 lumens  
Efficiency: N/A  
Efficacy: 141.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.33' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

Input Watts (W): 113  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 7.77%  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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 CATALOG NUMBER: MEM2-HTN-SA-110-730-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

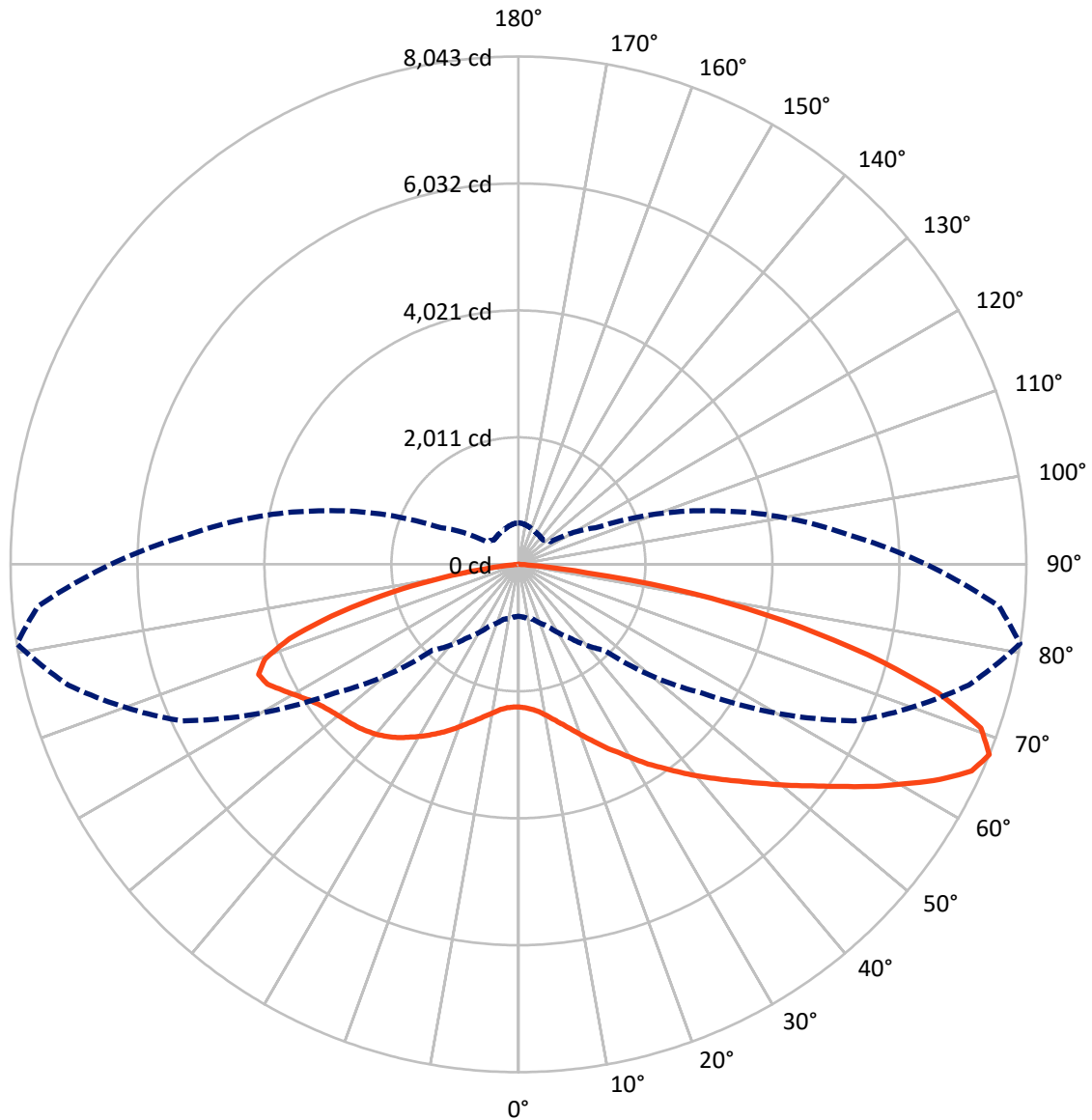
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 81-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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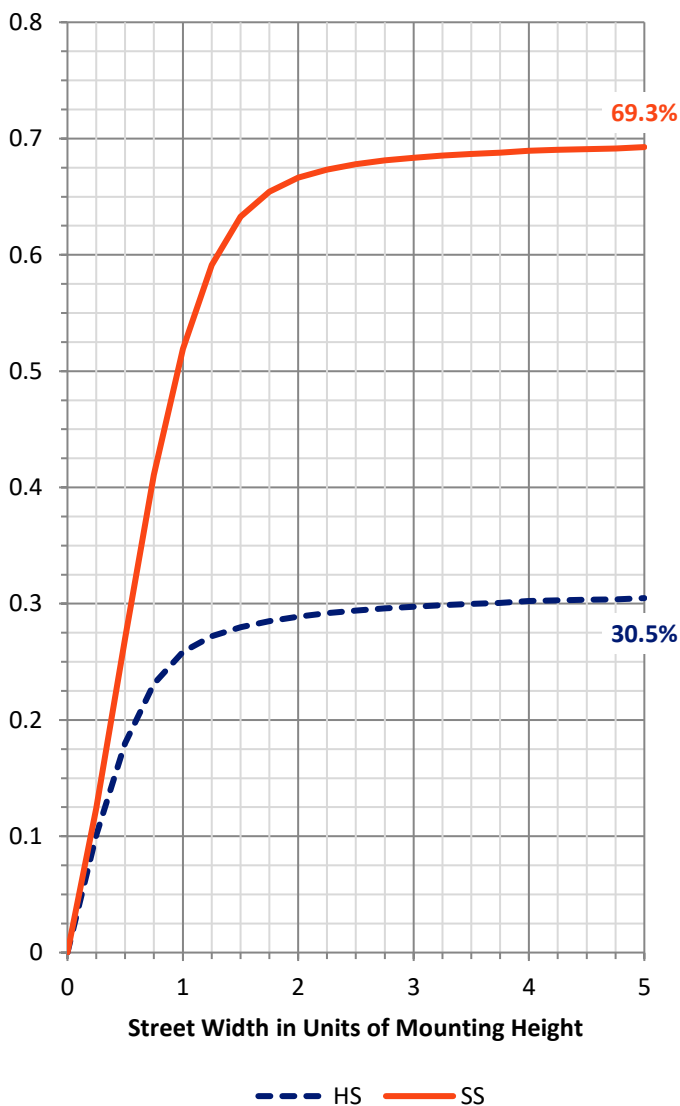
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4904.6	0.0	4904.6
	% Fixture	30.6	0.0	30.6
<b>Street Side</b>	Lumens	11101.3	0.0	11101.3
	% Fixture	69.4	0.0	69.4
<b>Total</b>	Lumens	16006.0	0.0	16006.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.4	1.4
10°-20°	818.0	5.1
20°-30°	1629.2	10.2
30°-40°	2559.6	16.0
40°-50°	3174.3	19.8
50°-60°	3103.1	19.4
60°-70°	2609.5	16.3
70°-80°	1658.1	10.4
80°-90°	223.8	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	16006.0	100.0
0°-180°	16006.0	100.0



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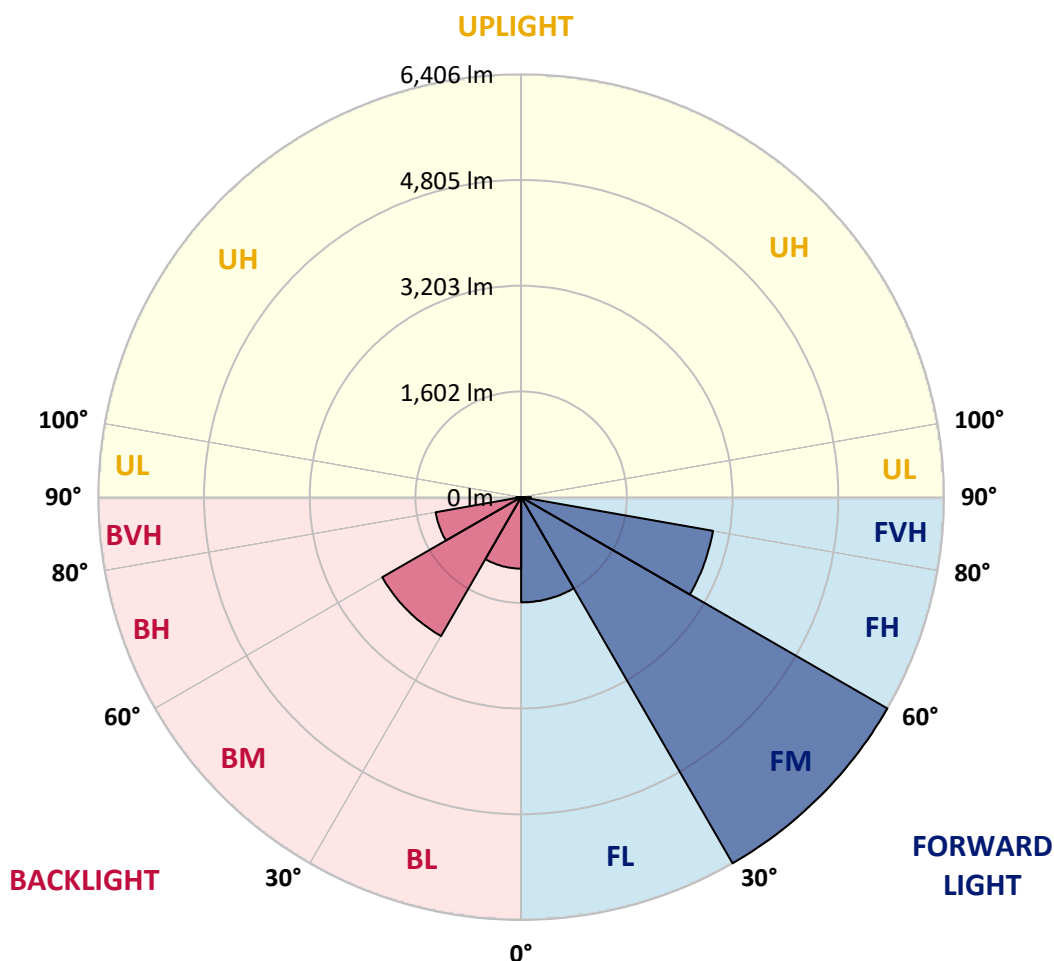
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1594.3	10.0			
FM (30°-60°)	6406.1	40.0			
FH (60°-80°)	2951.0	18.4			G2/5000
FVH (80°-90°)	150.0	0.9			G2/225
BL (0°-30°)	1083.3	6.8	B3/2500		
BM (30°-60°)	2430.9	15.2	B2/2500		
BH (60°-80°)	1316.6	8.2	B3/2500		G3/2500
BVH (80°-90°)	73.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
0°	2259.8	2259.8	2259.8	2259.8	2259.8	2259.8	2259.8	2259.8	2259.8	2259.8	2259.8
2.5°	2339.1	2335.9	2335.9	2310.5	2310.5	2304.2	2307.4	2288.3	2278.8	2275.6	2272.5
5°	2507.3	2507.3	2488.3	2472.4	2440.7	2412.1	2386.7	2348.6	2320.1	2307.4	2297.8
7.5°	2761.2	2742.2	2735.8	2688.2	2621.6	2564.4	2513.7	2431.1	2377.2	2358.1	2345.5
10°	3072.3	3046.9	2999.3	2945.3	2859.6	2773.9	2672.4	2561.3	2472.4	2434.3	2418.4
12.5°	3392.8	3357.9	3291.2	3240.5	3129.4	2999.3	2856.4	2704.1	2580.3	2526.4	2497.8
15°	3745.1	3726.1	3646.7	3545.2	3415.0	3230.9	3053.2	2866.0	2707.3	2631.1	2583.5
17.5°	4126.0	4097.4	4011.7	3887.9	3703.8	3484.9	3278.6	3037.3	2853.3	2754.9	2700.9
20°	4500.5	4494.1	4367.2	4249.7	4033.9	3761.0	3494.4	3240.5	3008.8	2894.5	2824.7
22.5°	4919.4	4878.2	4767.1	4602.0	4345.0	4094.2	3780.0	3449.9	3177.0	3043.7	2964.3
25°	5354.2	5351.1	5214.6	5011.5	4709.9	4392.6	4053.0	3688.0	3376.9	3215.1	3110.3
27.5°	5893.8	5852.5	5678.0	5446.3	5097.2	4732.2	4338.6	3935.5	3567.4	3373.8	3246.8
30°	6366.7	6354.0	6157.2	5897.0	5506.6	5071.8	4646.5	4214.8	3792.7	3564.2	3424.6
32.5°	6750.7	6734.8	6566.6	6306.4	5887.4	5436.8	4948.0	4478.3	4018.1	3770.5	3586.4
35°	7071.3	7045.9	6871.3	6611.1	6249.2	5792.2	5271.7	4754.4	4265.6	3964.1	3789.5
37.5°	7198.2	7176.0	7033.2	6817.4	6484.1	6065.2	5563.7	5059.1	4513.2	4183.1	3986.3
40°	7150.6	7137.9	7036.4	6887.2	6633.3	6284.2	5843.0	5376.4	4792.5	4414.8	4179.9
42.5°	6925.3	6925.3	6861.8	6785.6	6658.7	6407.9	6090.6	5681.1	5062.2	4646.5	4364.0
45°	6607.9	6595.2	6573.0	6544.4	6525.4	6430.2	6252.4	5944.6	5360.6	4900.4	4586.2
47.5°	6185.8	6195.3	6179.4	6192.1	6271.5	6331.8	6322.2	6188.9	5665.3	5179.7	4805.2
50°	5522.4	5566.9	5617.7	5766.8	5928.7	6096.9	6252.4	6363.5	6023.9	5497.1	5059.1
52.5°	4700.4	4719.5	4855.9	5208.2	5554.2	5776.3	6071.5	6442.9	6341.3	5827.1	5357.4
55°	3688.0	3722.9	3929.2	4427.5	5043.2	5468.5	5814.4	6407.9	6665.0	6204.8	5706.5
57.5°	2643.8	2666.0	2996.1	3510.2	4313.2	5027.3	5522.4	6268.3	6925.3	6633.3	6065.2
60°	1878.9	1920.2	2132.8	2634.3	3405.5	4418.0	5255.8	6065.2	7166.5	7052.2	6534.9
62.5°	1387.0	1409.2	1558.3	1923.3	2558.1	3586.4	4909.9	5916.0	7325.2	7502.9	7004.6
65°	1044.2	1053.7	1155.3	1406.0	1913.8	2643.8	4364.0	5887.4	7414.0	7886.9	7420.4
67.5°	822.0	837.9	901.4	1072.8	1425.0	1923.3	3554.7	5868.4	7382.3	8042.5	7639.4
70°	691.9	695.1	742.7	837.9	1066.4	1383.8	2656.5	5582.7	7204.6	7769.5	7436.3
72.5°	599.9	599.9	622.1	698.2	856.9	1047.4	1809.1	4900.4	6753.9	6941.1	6731.7
75°	485.6	482.4	520.5	593.5	688.7	806.1	1215.6	3710.2	5808.1	5712.9	5541.5
77.5°	422.1	418.9	450.7	514.2	568.1	644.3	831.5	2408.9	4570.3	4284.7	4176.7
80°	361.8	352.3	377.7	438.0	466.6	501.5	574.5	1402.8	2986.6	2808.8	2678.7
82.5°	272.9	250.7	244.4	295.2	314.2	292.0	292.0	491.9	1085.4	1095.0	1012.4
85°	22.2	25.4	31.7	38.1	54.0	60.3	63.5	104.7	161.9	155.5	158.7
87.5°	3.2	3.2	3.2	6.3	6.3	9.5	9.5	9.5	12.7	12.7	12.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2259.8	2259.8	2259.8	2259.8	2259.8	2259.8	2259.8	2259.8	2259.8	2259.8	2259.8
2.5°	2269.3	2262.9	2256.6	2256.6	2256.6	2250.2	2247.1	2247.1	2243.9	2234.4	2231.2
5°	2291.5	2282.0	2272.5	2272.5	2272.5	2269.3	2266.1	2269.3	2266.1	2256.6	2253.4
7.5°	2335.9	2323.2	2310.5	2310.5	2316.9	2313.7	2313.7	2316.9	2313.7	2304.2	2301.0
10°	2399.4	2380.4	2374.0	2374.0	2380.4	2377.2	2374.0	2374.0	2370.8	2355.0	2361.3
12.5°	2469.2	2450.2	2443.8	2447.0	2443.8	2437.5	2440.7	2431.1	2428.0	2402.6	2399.4
15°	2558.1	2535.9	2523.2	2526.4	2516.8	2504.1	2491.4	2485.1	2472.4	2450.2	2443.8
17.5°	2659.7	2624.7	2608.9	2608.9	2589.8	2564.4	2545.4	2526.4	2507.3	2481.9	2475.6
20°	2758.0	2726.3	2700.9	2694.6	2656.5	2615.2	2580.3	2548.6	2526.4	2497.8	2491.4
22.5°	2881.8	2837.4	2802.5	2773.9	2716.8	2650.1	2596.2	2551.7	2520.0	2488.3	2478.8
25°	3012.0	2948.5	2891.3	2837.4	2758.0	2662.8	2586.7	2523.2	2481.9	2447.0	2440.7
27.5°	3142.1	3059.6	2977.0	2891.3	2770.7	2647.0	2539.1	2462.9	2408.9	2364.5	2358.1
30°	3281.7	3180.2	3050.0	2926.3	2767.6	2605.7	2469.2	2361.3	2297.8	2247.1	2240.7
32.5°	3424.6	3297.6	3119.9	2951.7	2751.7	2545.4	2367.7	2253.4	2174.1	2116.9	2101.1
35°	3583.2	3427.7	3183.3	2961.2	2707.3	2456.5	2259.8	2116.9	2024.9	1967.8	1955.1
37.5°	3745.1	3548.3	3224.6	2954.8	2643.8	2351.8	2120.1	1974.1	1866.2	1786.9	1774.2
40°	3910.1	3659.4	3250.0	2923.1	2554.9	2221.7	1990.0	1812.3	1656.7	1583.7	1548.8
42.5°	4062.5	3761.0	3262.7	2878.7	2456.5	2085.2	1818.6	1586.9	1440.9	1361.6	1377.4
45°	4221.2	3856.2	3265.9	2824.7	2326.4	1910.6	1602.8	1387.0	1241.0	1180.7	1174.3
47.5°	4357.7	3935.5	3259.5	2748.5	2180.4	1710.7	1377.4	1171.1	1063.2	1006.1	999.8
50°	4538.6	4024.4	3250.0	2659.7	1990.0	1482.2	1168.0	999.8	901.4	856.9	853.8
52.5°	4719.5	4122.8	3243.6	2535.9	1790.0	1266.4	977.5	844.2	777.6	755.4	749.0
55°	4957.5	4243.4	3246.8	2393.1	1561.5	1044.2	828.4	736.3	701.4	691.9	691.9
57.5°	5230.5	4398.9	3265.9	2234.4	1323.5	863.3	720.5	679.2	676.0	682.4	685.5
60°	5560.5	4605.2	3303.9	2069.3	1104.5	730.0	657.0	653.8	663.3	685.5	691.9
62.5°	5931.9	4830.6	3351.6	1853.5	895.0	641.1	622.1	634.8	647.5	672.8	676.0
65°	6258.8	5084.5	3380.1	1647.2	749.0	590.3	599.9	606.2	637.9	672.8	672.8
67.5°	6455.5	5268.5	3272.2	1387.0	625.2	545.9	564.9	584.0	618.9	650.6	657.0
70°	6388.9	5208.2	2904.0	1075.9	530.0	504.6	526.9	555.4	590.3	628.4	647.5
72.5°	5925.5	4779.8	2358.1	783.9	460.2	466.6	495.1	533.2	564.9	606.2	631.6
75°	4954.3	3989.5	1701.2	564.9	403.1	428.5	472.9	504.6	526.9	536.4	539.5
77.5°	3761.0	2932.6	1158.4	422.1	349.1	384.0	431.6	466.6	472.9	479.2	485.6
80°	2456.5	1866.2	653.8	295.2	266.6	314.2	352.3	390.4	377.7	396.7	403.1
82.5°	1037.8	815.7	298.3	146.0	123.8	133.3	142.8	127.0	117.4	117.4	101.6
85°	136.5	104.7	44.4	19.0	15.9	9.5	9.5	9.5	6.3	6.3	6.3
87.5°	12.7	12.7	9.5	9.5	6.3	6.3	3.2	6.3	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2407-157-4

Test Date: 08/07/2024

Luminaire Tested: MEM2-HTN-SA-30-730-U-5WQ-2

Data in this report applies to families of products including MEM2-HTN-SA-30-730-U-5WQ-2

**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2407-157-4  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry: 4π  
 Issue Date: 08/20/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: Streetworks  
 Catalog Number: **MEM2-HTN-SA-30-730-U-5WQ-2**  
 Description: Epic Modern Light Square 30W 5WQ Optic and Flare Trim

**Spectral Parameters**

CCT (K): 3057  
 CIE u': 0.2487  
 CIE v': 0.5199  
 Duv: -0.0002  
 CIE x: 0.4326  
 CIE y: 0.4020  
 CIE z: 0.1654  
 Peak Wavelength (nm): 593  
 Dominant Wavelength (nm): 582  
 Purity: 50.50735  
 Rf: 74.6  
 Rg: 94

CRI (Ra):	71.7		
R1:	68.1	R9:	-34.8
R2:	82.0	R10:	58.5
R3:	93.5	R11:	62.5
R4:	67.5	R12:	47.5
R5:	67.2	R13:	70.7
R6:	74.9	R14:	96.4
R7:	77.4	R15:	60.0
R8:	43.1		



**Test Conditions**

Stabilization Time: 21M  
 Operation Time: 1H 21M  
 Sphere Temperature (°C): 24.2

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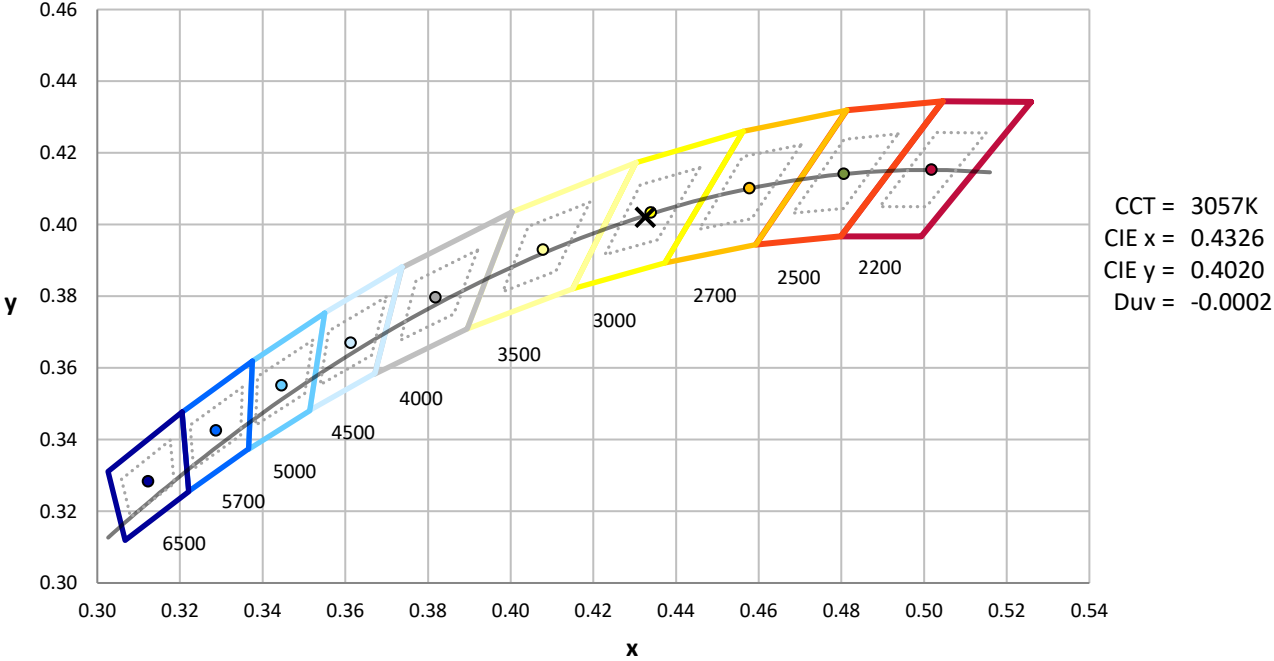
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



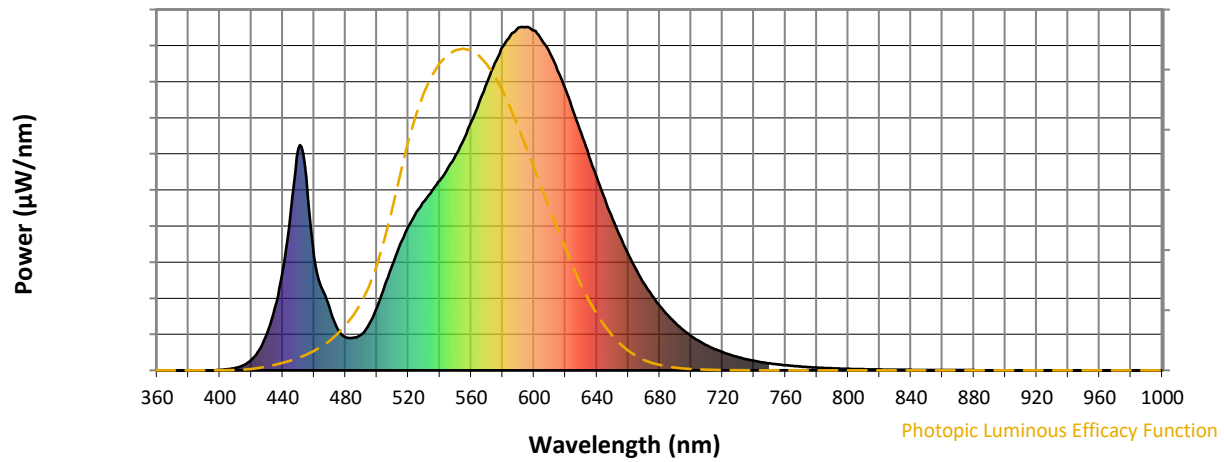
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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**Photopic Flux vs. Wavelength**



**Photopic Lumens: NR**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)
360	0	NR	490	104	NR	620	818	NR	750	20	NR	880	1	NR
365	0	NR	495	135	NR	625	755	NR	755	17	NR	885	0	NR
370	0	NR	500	184	NR	630	691	NR	760	15	NR	890	0	NR
375	0	NR	505	247	NR	635	625	NR	765	13	NR	895	0	NR
380	0	NR	510	309	NR	640	561	NR	770	11	NR	900	0	NR
385	0	NR	515	369	NR	645	499	NR	775	9	NR	905	0	NR
390	0	NR	520	419	NR	650	441	NR	780	8	NR	910	0	NR
395	0	NR	525	460	NR	655	388	NR	785	7	NR	915	0	NR
400	1	NR	530	492	NR	660	338	NR	790	6	NR	920	0	NR
405	3	NR	535	524	NR	665	294	NR	795	5	NR	925	0	NR
410	7	NR	540	553	NR	670	253	NR	800	4	NR	930	0	NR
415	15	NR	545	588	NR	675	218	NR	805	4	NR	935	0	NR
420	31	NR	550	625	NR	680	188	NR	810	3	NR	940	0	NR
425	60	NR	555	670	NR	685	161	NR	815	3	NR	945	0	NR
430	107	NR	560	723	NR	690	139	NR	820	3	NR	950	0	NR
435	183	NR	565	780	NR	695	118	NR	825	2	NR	955	0	NR
440	289	NR	570	837	NR	700	100	NR	830	2	NR	960	0	NR
445	460	NR	575	894	NR	705	85	NR	835	2	NR	965	0	NR
450	646	NR	580	942	NR	710	73	NR	840	1	NR	970	0	NR
455	561	NR	585	976	NR	715	62	NR	845	1	NR	975	0	NR
460	331	NR	590	998	NR	720	53	NR	850	1	NR	980	0	NR
465	238	NR	595	1000	NR	725	45	NR	855	1	NR	985	0	NR
470	178	NR	600	990	NR	730	39	NR	860	1	NR	990	0	NR
475	120	NR	605	962	NR	735	33	NR	865	1	NR	995	0	NR
480	96	NR	610	925	NR	740	28	NR	870	1	NR	1000	0	NR
485	95	NR	615	873	NR	745	24	NR	875	1	NR			

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**Scotopic Flux vs. Wavelength**



**Scotopic Lumens: NR**

**S/P: 1.23**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)
360	0	NR	490	104	NR	620	818	NR	750	20	NR	880	1	NR
365	0	NR	495	135	NR	625	755	NR	755	17	NR	885	0	NR
370	0	NR	500	184	NR	630	691	NR	760	15	NR	890	0	NR
375	0	NR	505	247	NR	635	625	NR	765	13	NR	895	0	NR
380	0	NR	510	309	NR	640	561	NR	770	11	NR	900	0	NR
385	0	NR	515	369	NR	645	499	NR	775	9	NR	905	0	NR
390	0	NR	520	419	NR	650	441	NR	780	8	NR	910	0	NR
395	0	NR	525	460	NR	655	388	NR	785	7	NR	915	0	NR
400	1	NR	530	492	NR	660	338	NR	790	6	NR	920	0	NR
405	3	NR	535	524	NR	665	294	NR	795	5	NR	925	0	NR
410	7	NR	540	553	NR	670	253	NR	800	4	NR	930	0	NR
415	15	NR	545	588	NR	675	218	NR	805	4	NR	935	0	NR
420	31	NR	550	625	NR	680	188	NR	810	3	NR	940	0	NR
425	60	NR	555	670	NR	685	161	NR	815	3	NR	945	0	NR
430	107	NR	560	723	NR	690	139	NR	820	3	NR	950	0	NR
435	183	NR	565	780	NR	695	118	NR	825	2	NR	955	0	NR
440	289	NR	570	837	NR	700	100	NR	830	2	NR	960	0	NR
445	460	NR	575	894	NR	705	85	NR	835	2	NR	965	0	NR
450	646	NR	580	942	NR	710	73	NR	840	1	NR	970	0	NR
455	561	NR	585	976	NR	715	62	NR	845	1	NR	975	0	NR
460	331	NR	590	998	NR	720	53	NR	850	1	NR	980	0	NR
465	238	NR	595	1000	NR	725	45	NR	855	1	NR	985	0	NR
470	178	NR	600	990	NR	730	39	NR	860	1	NR	990	0	NR
475	120	NR	605	962	NR	735	33	NR	865	1	NR	995	0	NR
480	96	NR	610	925	NR	740	28	NR	870	1	NR	1000	0	NR
485	95	NR	615	873	NR	745	24	NR	875	1	NR			

REPORT NUMBER: SP1-2407-157-4

**Melanopic Flux vs. Wavelength**



**Melanopic Lumens: NR**

**M/P: 2.27**

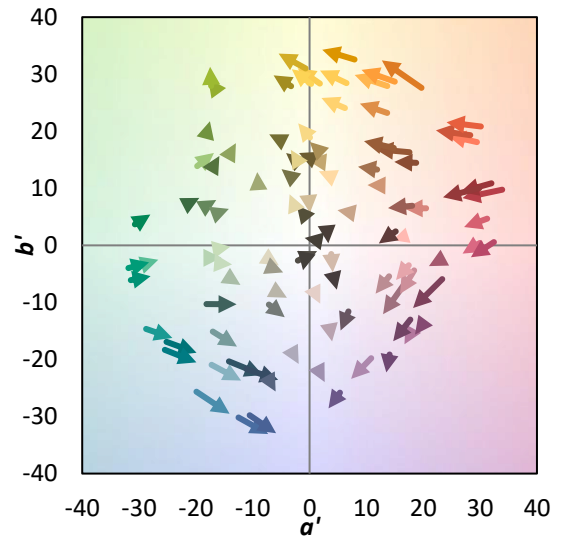
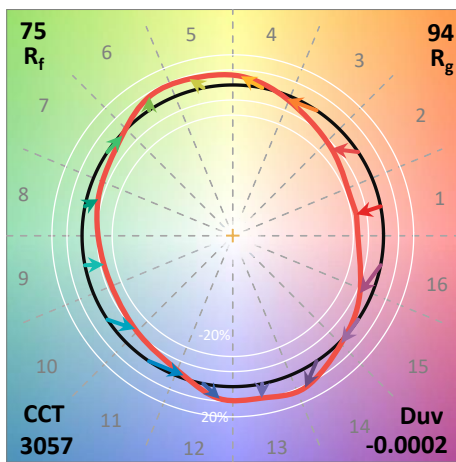
$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	104	NR	620	818	NR	750	20	NR	880	1	NR
365	0	NR	495	135	NR	625	755	NR	755	17	NR	885	0	NR
370	0	NR	500	184	NR	630	691	NR	760	15	NR	890	0	NR
375	0	NR	505	247	NR	635	625	NR	765	13	NR	895	0	NR
380	0	NR	510	309	NR	640	561	NR	770	11	NR	900	0	NR
385	0	NR	515	369	NR	645	499	NR	775	9	NR	905	0	NR
390	0	NR	520	419	NR	650	441	NR	780	8	NR	910	0	NR
395	0	NR	525	460	NR	655	388	NR	785	7	NR	915	0	NR
400	1	NR	530	492	NR	660	338	NR	790	6	NR	920	0	NR
405	3	NR	535	524	NR	665	294	NR	795	5	NR	925	0	NR
410	7	NR	540	553	NR	670	253	NR	800	4	NR	930	0	NR
415	15	NR	545	588	NR	675	218	NR	805	4	NR	935	0	NR
420	31	NR	550	625	NR	680	188	NR	810	3	NR	940	0	NR
425	60	NR	555	670	NR	685	161	NR	815	3	NR	945	0	NR
430	107	NR	560	723	NR	690	139	NR	820	3	NR	950	0	NR
435	183	NR	565	780	NR	695	118	NR	825	2	NR	955	0	NR
440	289	NR	570	837	NR	700	100	NR	830	2	NR	960	0	NR
445	460	NR	575	894	NR	705	85	NR	835	2	NR	965	0	NR
450	646	NR	580	942	NR	710	73	NR	840	1	NR	970	0	NR
455	561	NR	585	976	NR	715	62	NR	845	1	NR	975	0	NR
460	331	NR	590	998	NR	720	53	NR	850	1	NR	980	0	NR
465	238	NR	595	1000	NR	725	45	NR	855	1	NR	985	0	NR
470	178	NR	600	990	NR	730	39	NR	860	1	NR	990	0	NR
475	120	NR	605	962	NR	735	33	NR	865	1	NR	995	0	NR
480	96	NR	610	925	NR	740	28	NR	870	1	NR	1000	0	NR
485	95	NR	615	873	NR	745	24	NR	875	1	NR			

**Summary**

$R_f = 74.6$   
 $R_g = 94$   
 $CIE R_a = 71.7$   
 $R_9 = -34.8$



**Color Vector Graphics**





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

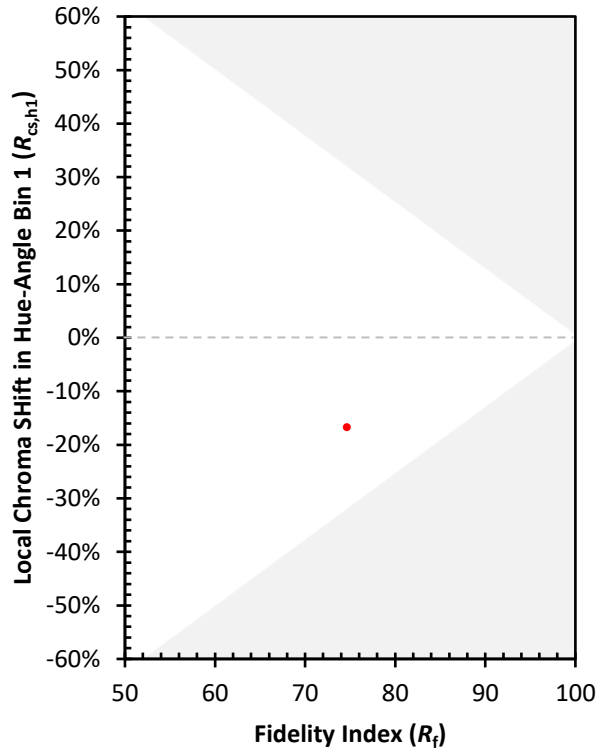
CES01 = 86	CES26 = 65	CES51 = 87	CES76 = 58
CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 76
CES03 = 31	CES28 = 84	CES53 = 77	CES78 = 61
CES04 = 71	CES29 = 68	CES54 = 85	CES79 = 86
CES05 = 49	CES30 = 83	CES55 = 84	CES80 = 83
CES06 = 51	CES31 = 71	CES56 = 74	CES81 = 73
CES07 = 41	CES32 = 64	CES57 = 74	CES82 = 93
CES08 = 40	CES33 = 78	CES58 = 75	CES83 = 91
CES09 = 29	CES34 = 75	CES59 = 85	CES84 = 88
CES10 = 76	CES35 = 87	CES60 = 90	CES85 = 75
CES11 = 59	CES36 = 92	CES61 = 81	CES86 = 64
CES12 = 65	CES37 = 84	CES62 = 89	CES87 = 77
CES13 = 43	CES38 = 92	CES63 = 75	CES88 = 80
CES14 = 74	CES39 = 96	CES64 = 65	CES89 = 67
CES15 = 71	CES40 = 92	CES65 = 64	CES90 = 80
CES16 = 47	CES41 = 93	CES66 = 60	CES91 = 78
CES17 = 50	CES42 = 86	CES67 = 58	CES92 = 56
CES18 = 56	CES43 = 77	CES68 = 66	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 75	CES94 = 49
CES20 = 66	CES45 = 85	CES70 = 60	CES95 = 66
CES21 = 87	CES46 = 81	CES71 = 56	CES96 = 76
CES22 = 79	CES47 = 86	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 75	CES73 = 52	CES98 = 76
CES24 = 91	CES49 = 79	CES74 = 95	CES99 = 64
CES25 = 73	CES50 = 86	CES75 = 60	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)