

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: McGRAW-EDISON

Report Number: P1212051

Luminaire Tested: **GKO-PB2A-840-U-T1**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1212051
Test Lab: INNOVATION CENTER(G1)
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GKO-PB2A-840-U-T1
Description: GEKKO WALL PACK 4000LM PACKAGE 80CRI 4000K FIXTURE w/ TYPE I DISTRIBUTION OPTIC
Light Source: (20) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

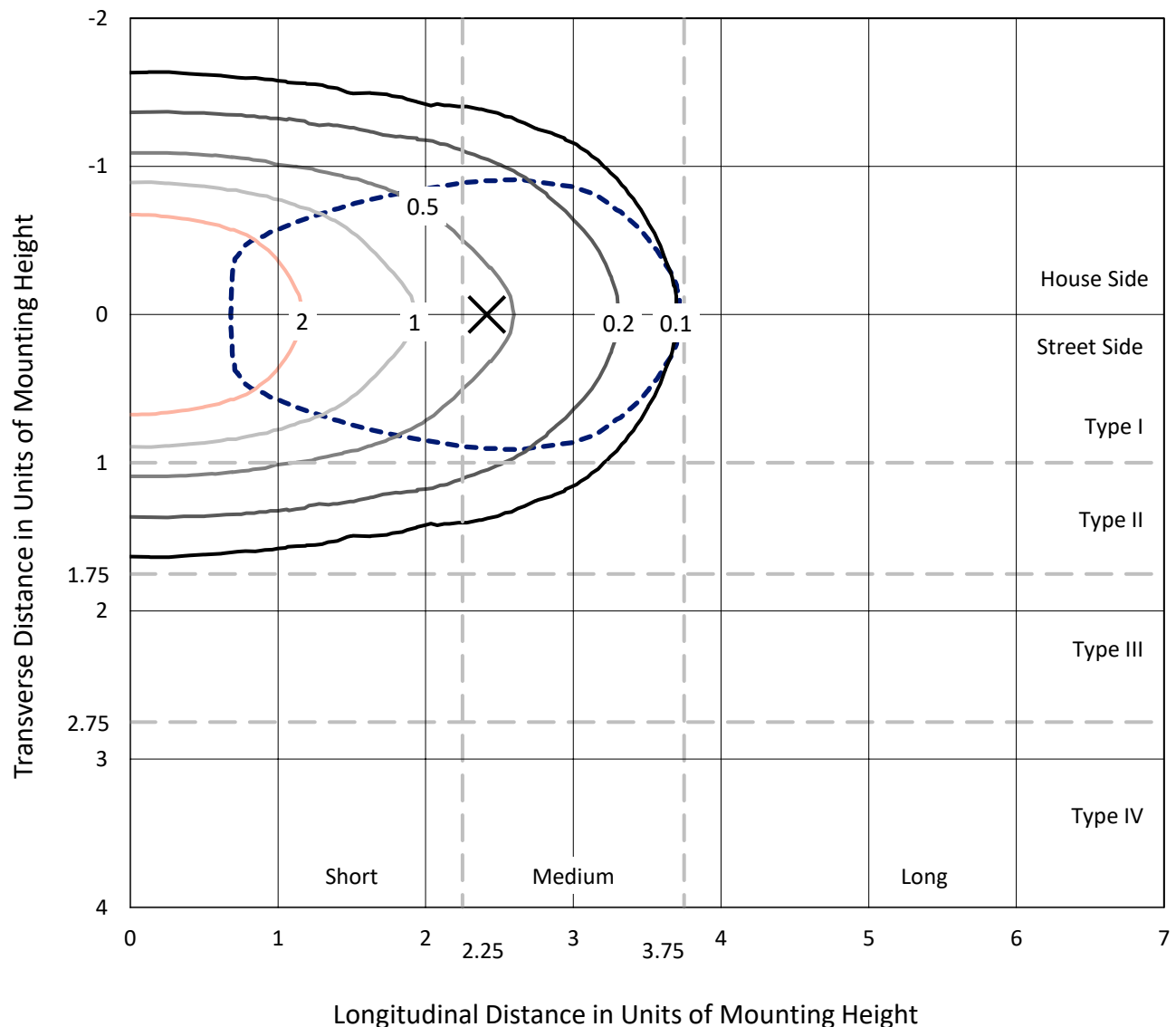
Lumens per Lamp: N/A
Luminaire Lumens: 4072.3 lumens
Efficiency: N/A
Efficacy: 153.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 26.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): 12%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

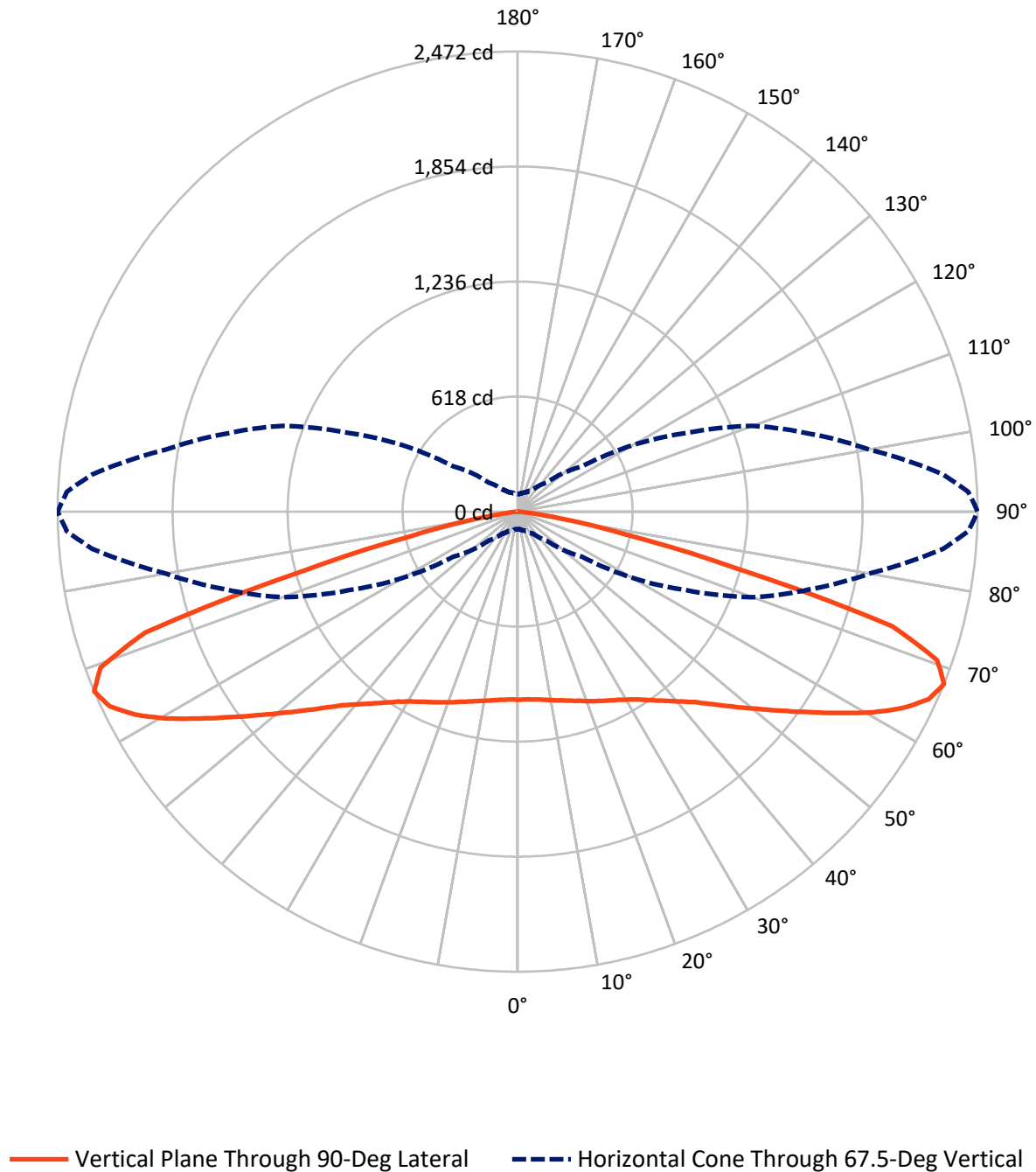
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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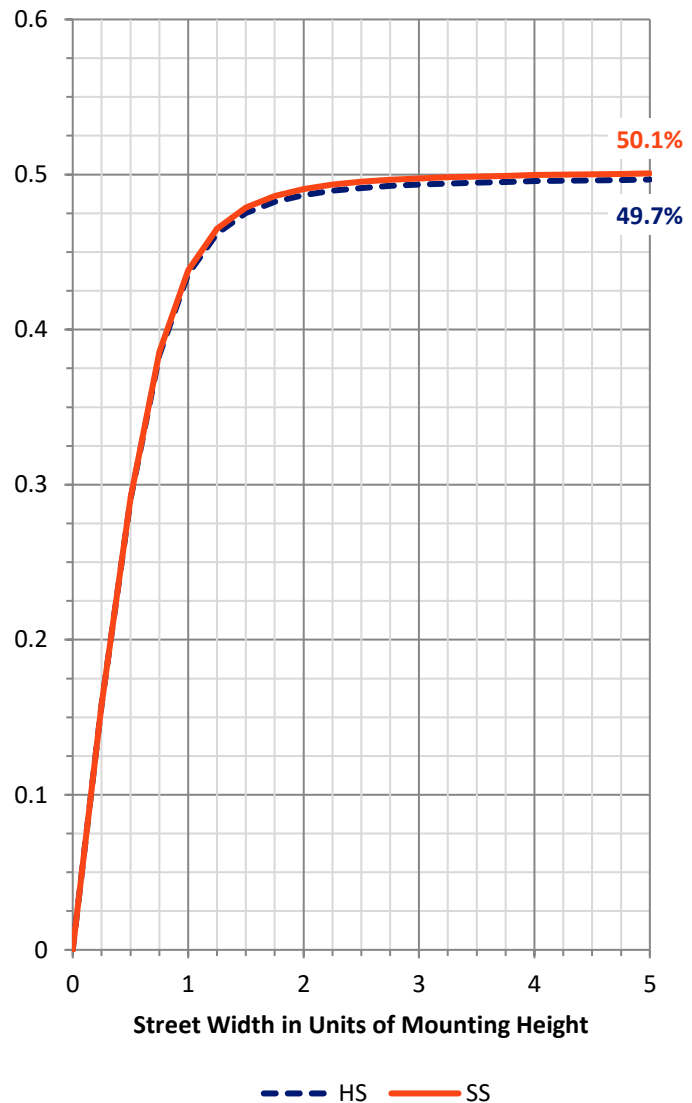
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2036.2	0.0	2036.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2036.2	0.0	2036.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	4072.3	0.0	4072.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	2.4
10°-20°	292.0	7.2
20°-30°	485.6	11.9
30°-40°	645.1	15.8
40°-50°	727.3	17.9
50°-60°	747.9	18.4
60°-70°	706.7	17.4
70°-80°	346.0	8.5
80°-90°	24.8	0.6
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°	4072.3	100.0
0°-180°	4072.3	100.0



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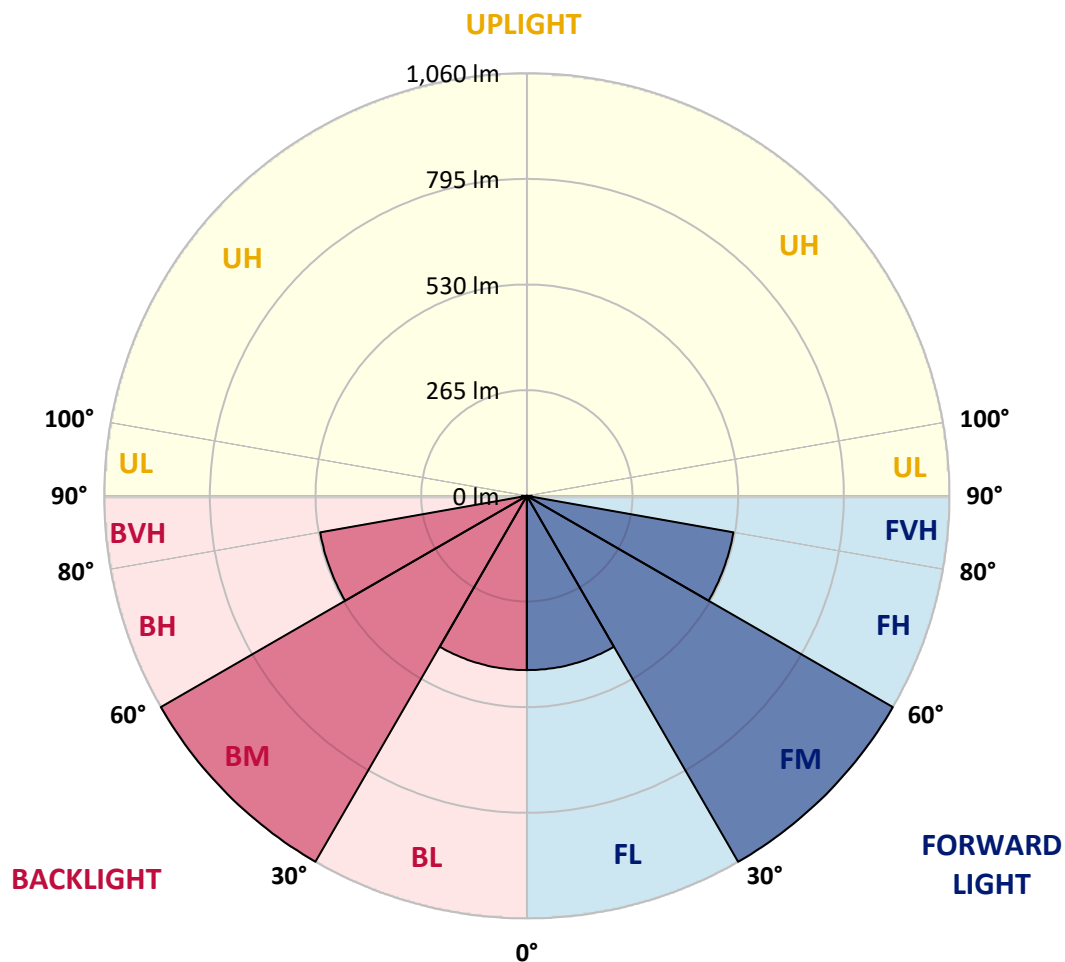
CATALOG NUMBER: GKO-PB2A-840-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	437.3	10.7			
FM	(30°-60°)	1060.1	26.0			
FH	(60°-80°)	526.4	12.9			G0/660
FVH	(80°-90°)	12.4	0.3			G1/100
BL	(0°-30°)	437.3	10.7	B1/500		
BM	(30°-60°)	1060.1	26.0	B2/2500		
BH	(60°-80°)	526.4	12.9	B2/1000		G2/1000
BVH	(80°-90°)	12.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	1010.5	1010.5	1010.5	1010.5	1010.5	1010.5	1010.5	1010.5	1010.5	1010.5	1010.5
2.5°	1011.3	1012.8	1009.8	1009.8	1011.3	1012.0	1012.0	1012.8	1011.3	1011.3	1010.5
5°	1011.3	1012.0	1010.5	1010.5	1012.0	1014.3	1013.5	1015.0	1015.0	1014.3	1014.3
7.5°	1010.5	1012.0	1010.5	1011.3	1013.5	1018.0	1018.0	1018.0	1019.5	1021.0	1021.0
10°	1009.8	1011.3	1012.0	1012.8	1015.8	1022.5	1024.0	1024.8	1027.0	1029.3	1029.3
12.5°	1006.0	1007.5	1009.8	1012.8	1018.0	1027.0	1030.0	1032.3	1036.0	1038.3	1039.8
15°	1000.7	1001.5	1006.8	1012.8	1021.0	1032.3	1038.3	1042.0	1047.3	1050.3	1052.5
17.5°	993.2	994.0	1002.2	1011.3	1023.3	1039.0	1048.8	1054.8	1060.1	1064.6	1067.6
20°	983.5	985.7	995.5	1009.8	1027.0	1045.8	1060.1	1070.6	1075.8	1080.3	1084.8
22.5°	971.5	973.7	985.7	1006.0	1030.8	1054.8	1073.6	1087.1	1093.8	1099.8	1105.1
25°	953.4	956.5	970.7	997.0	1032.3	1064.6	1088.6	1105.9	1111.9	1119.4	1123.9
27.5°	925.7	927.9	945.2	979.0	1027.8	1075.1	1105.9	1126.1	1132.9	1141.1	1145.6
30°	882.1	886.6	907.7	949.7	1016.5	1083.3	1126.1	1146.4	1154.7	1162.9	1168.9
32.5°	825.8	832.6	855.9	909.9	994.7	1086.3	1147.9	1171.2	1181.7	1190.7	1198.2
35°	756.0	762.8	790.5	858.9	960.2	1080.3	1169.7	1199.7	1212.5	1224.5	1233.5
37.5°	676.4	682.4	716.2	794.3	910.7	1061.6	1186.9	1231.2	1248.5	1264.3	1276.3
40°	596.1	602.9	639.6	723.0	850.6	1025.5	1194.4	1265.8	1287.5	1307.8	1322.8
42.5°	509.0	517.3	558.6	647.1	780.8	976.0	1188.4	1299.5	1326.6	1354.3	1376.9
45°	431.7	433.2	478.2	563.8	704.2	912.2	1167.4	1331.8	1368.6	1407.7	1439.9
47.5°	357.4	360.4	399.4	484.2	624.6	840.1	1129.1	1357.4	1415.9	1466.2	1513.5
50°	291.3	295.0	330.3	406.2	545.0	761.3	1077.3	1372.4	1456.5	1524.8	1590.8
52.5°	237.2	241.7	271.0	337.8	464.7	678.7	1013.5	1374.6	1493.2	1583.3	1671.2
55°	197.4	200.4	223.0	276.3	387.4	593.1	940.7	1363.4	1517.3	1635.9	1753.0
57.5°	166.7	169.7	185.4	227.5	317.6	505.3	852.1	1337.1	1530.0	1681.7	1835.6
60°	144.9	147.1	158.4	188.4	261.3	422.7	756.8	1290.5	1526.3	1710.2	1903.9
62.5°	129.1	129.9	139.6	160.7	215.5	344.6	649.4	1220.7	1495.5	1714.0	1950.4
65°	114.9	115.6	121.6	136.6	177.2	277.0	537.5	1124.6	1436.9	1687.7	1957.2
67.5°	93.1	94.6	103.6	114.9	145.6	219.2	423.4	998.5	1345.3	1619.4	1918.9
70°	74.3	75.1	84.1	96.8	118.6	172.7	325.1	828.8	1201.9	1508.3	1819.8
72.5°	55.6	57.1	65.3	78.1	96.8	133.6	235.0	626.9	961.0	1271.8	1584.8
75°	44.3	45.0	48.0	60.1	75.1	101.4	158.4	379.9	578.8	786.8	971.5
77.5°	37.5	38.3	38.3	46.5	55.6	68.3	84.1	150.9	244.7	348.3	461.7
80°	30.8	32.3	29.3	34.5	39.8	39.8	39.0	72.1	115.6	163.7	214.7
82.5°	22.5	24.0	22.5	24.0	24.0	21.8	20.3	27.0	36.8	50.3	54.8
85°	15.8	16.5	18.0	16.5	15.8	12.8	9.8	7.5	4.5	5.3	7.5
87.5°	10.5	12.8	15.0	14.3	12.0	9.8	6.8	4.5	2.3	3.0	3.0
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):

	85°	87.5°	90°
0°	1010.5	1010.5	1010.5
2.5°	1011.3	1010.5	1009.8
5°	1015.0	1014.3	1013.5
7.5°	1020.3	1020.3	1020.3
10°	1028.5	1030.0	1030.0
12.5°	1039.0	1040.5	1040.5
15°	1051.8	1052.5	1054.1
17.5°	1067.6	1068.3	1068.3
20°	1086.3	1085.6	1087.1
22.5°	1105.1	1105.1	1105.1
25°	1124.6	1124.6	1124.6
27.5°	1147.1	1147.1	1145.6
30°	1171.9	1171.9	1171.9
32.5°	1201.9	1202.7	1203.4
35°	1240.2	1241.7	1244.0
37.5°	1283.8	1287.5	1289.8
40°	1335.6	1337.1	1340.8
42.5°	1393.4	1397.9	1398.6
45°	1465.5	1473.0	1476.0
47.5°	1550.3	1560.8	1566.1
50°	1644.9	1656.9	1664.4
52.5°	1747.7	1767.3	1776.3
55°	1857.4	1891.1	1900.9
57.5°	1981.2	2027.0	2040.5
60°	2102.8	2167.4	2189.2
62.5°	2206.4	2297.3	2324.3
65°	2279.3	2388.9	2428.7
67.5°	2294.3	2424.2	2471.5
70°	2204.2	2337.1	2391.9
72.5°	1916.7	2036.8	2105.1
75°	1132.1	1218.5	1197.4
77.5°	568.3	593.1	596.8
80°	249.2	264.3	270.3
82.5°	61.6	63.1	71.3
85°	8.3	9.8	9.0
87.5°	3.0	3.0	3.8
90°	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

McGraw-Edison

Report Number: SP3-2511-595-3

Test Date: 11/12/2025

Luminaire Tested: GKO-PB1C-840-U-T4W

Data in this report applies to families of products including GKO-PB1C-840*

Test Information

Test Method: LM-79-2019
 Report Number: SP3-2511-595-3
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP3 - 3M SPHERE
 Measurement Geometry: 4π
 Issue Date: 01/27/2026
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GKO-PB1C-840-U-T4W**
 Description: Gekko Wedge Wall Pack Fixture 1 SQ w/ T4W distribution

Spectral Parameters

CCT (K): 3958
 CIE u' : 0.2251
 CIE v' : 0.5041
 Duv: 0.0014
 CIE x: 0.3833
 CIE y: 0.3816
 CIE z: 0.2351
 Peak Wavelength (nm): 450
 Dominant Wavelength (nm): 578
 Purity: 29.56261
 R_f: 82.9
 R_g: 94.7

CRI (Ra): 80.8
 R1: 78.3
 R2: 87.6
 R3: 95.0
 R4: 79.6
 R5: 78.8
 R6: 83.3
 R7: 84.3
 R8: 59.4
 R9: -5.1
 R10: 71.4
 R11: 78.5
 R12: 60.5
 R13: 80.5
 R14: 97.5
 R15: 70.7



Test Conditions

Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.0

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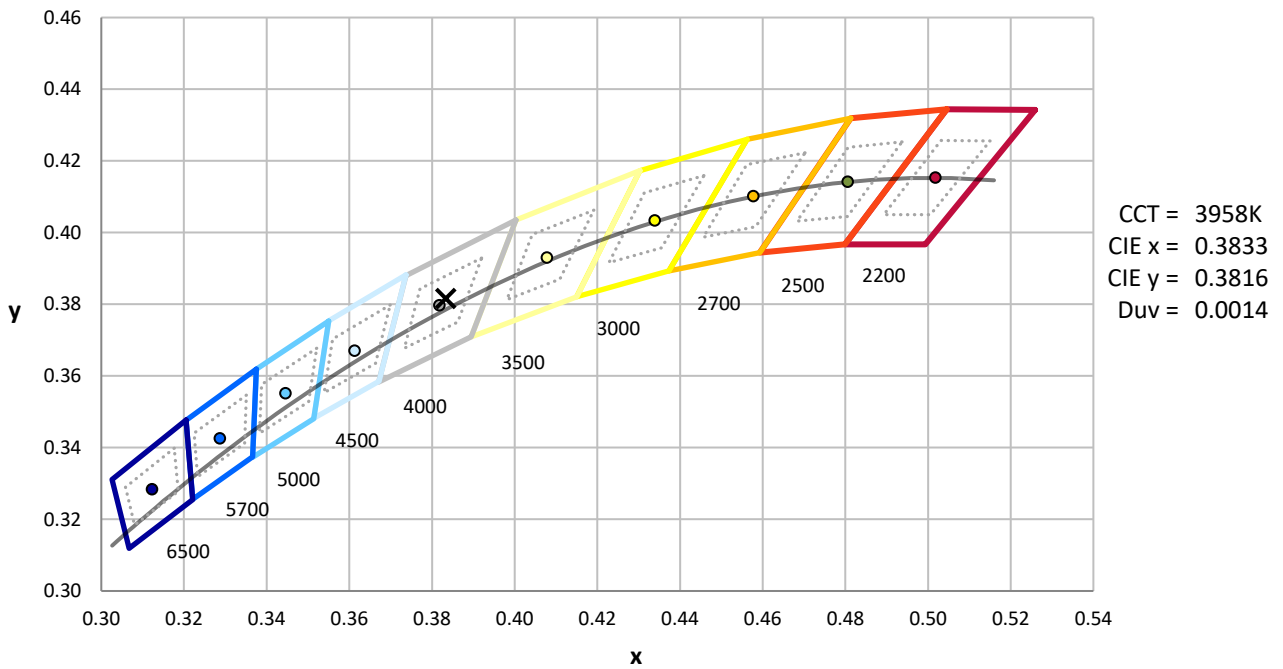
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	3M SPHERE IN02505	7/1/2025	1/1/2026
Power Meter	XITRON INXT2011006	10/21/2025	10/21/2026
AC Power Source	CHROMA 61604 IN6064A	10/20/2025	10/20/2026
DC Power Source	EYSIGHT N5770A IN0534	10/20/2025	10/20/2026
Sphere Thermometer	TANDD IN4036E	10/21/2025	10/21/2026

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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 4000K 4-step quadrangle

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Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	296	NR	620	736	NR	750	18	NR	880	0	NR
365	0	NR	495	355	NR	625	683	NR	755	15	NR	885	0	NR
370	0	NR	500	415	NR	630	628	NR	760	13	NR	890	0	NR
375	0	NR	505	468	NR	635	571	NR	765	11	NR	895	0	NR
380	0	NR	510	511	NR	640	515	NR	770	9	NR	900	0	NR
385	0	NR	515	545	NR	645	460	NR	775	8	NR	905	0	NR
390	1	NR	520	570	NR	650	408	NR	780	7	NR	910	0	NR
395	3	NR	525	590	NR	655	359	NR	785	6	NR	915	0	NR
400	5	NR	530	606	NR	660	313	NR	790	5	NR	920	0	NR
405	7	NR	535	623	NR	665	273	NR	795	4	NR	925	0	NR
410	12	NR	540	641	NR	670	236	NR	800	4	NR	930	0	NR
415	22	NR	545	664	NR	675	204	NR	805	3	NR	935	0	NR
420	40	NR	550	690	NR	680	175	NR	810	3	NR	940	0	NR
425	73	NR	555	715	NR	685	151	NR	815	2	NR	945	0	NR
430	133	NR	560	747	NR	690	128	NR	820	2	NR	950	0	NR
435	236	NR	565	781	NR	695	109	NR	825	2	NR	955	0	NR
440	416	NR	570	809	NR	700	93	NR	830	1	NR	960	0	NR
445	757	NR	575	840	NR	705	78	NR	835	1	NR	965	0	NR
450	1000	NR	580	863	NR	710	67	NR	840	1	NR	970	0	NR
455	730	NR	585	880	NR	715	57	NR	845	1	NR	975	0	NR
460	494	NR	590	890	NR	720	48	NR	850	1	NR	980	0	NR
465	419	NR	595	890	NR	725	41	NR	855	1	NR	985	0	NR
470	305	NR	600	879	NR	730	35	NR	860	1	NR	990	0	NR
475	235	NR	605	856	NR	735	29	NR	865	1	NR	995	0	NR
480	237	NR	610	824	NR	740	25	NR	870	1	NR	1000	0	NR
485	257	NR	615	783	NR	745	21	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.65

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	296	NR	620	736	NR	750	18	NR	880	0	NR
365	0	NR	495	355	NR	625	683	NR	755	15	NR	885	0	NR
370	0	NR	500	415	NR	630	628	NR	760	13	NR	890	0	NR
375	0	NR	505	468	NR	635	571	NR	765	11	NR	895	0	NR
380	0	NR	510	511	NR	640	515	NR	770	9	NR	900	0	NR
385	0	NR	515	545	NR	645	460	NR	775	8	NR	905	0	NR
390	1	NR	520	570	NR	650	408	NR	780	7	NR	910	0	NR
395	3	NR	525	590	NR	655	359	NR	785	6	NR	915	0	NR
400	5	NR	530	606	NR	660	313	NR	790	5	NR	920	0	NR
405	7	NR	535	623	NR	665	273	NR	795	4	NR	925	0	NR
410	12	NR	540	641	NR	670	236	NR	800	4	NR	930	0	NR
415	22	NR	545	664	NR	675	204	NR	805	3	NR	935	0	NR
420	40	NR	550	690	NR	680	175	NR	810	3	NR	940	0	NR
425	73	NR	555	715	NR	685	151	NR	815	2	NR	945	0	NR
430	133	NR	560	747	NR	690	128	NR	820	2	NR	950	0	NR
435	236	NR	565	781	NR	695	109	NR	825	2	NR	955	0	NR
440	416	NR	570	809	NR	700	93	NR	830	1	NR	960	0	NR
445	757	NR	575	840	NR	705	78	NR	835	1	NR	965	0	NR
450	1000	NR	580	863	NR	710	67	NR	840	1	NR	970	0	NR
455	730	NR	585	880	NR	715	57	NR	845	1	NR	975	0	NR
460	494	NR	590	890	NR	720	48	NR	850	1	NR	980	0	NR
465	419	NR	595	890	NR	725	41	NR	855	1	NR	985	0	NR
470	305	NR	600	879	NR	730	35	NR	860	1	NR	990	0	NR
475	235	NR	605	856	NR	735	29	NR	865	1	NR	995	0	NR
480	237	NR	610	824	NR	740	25	NR	870	1	NR	1000	0	NR
485	257	NR	615	783	NR	745	21	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.36

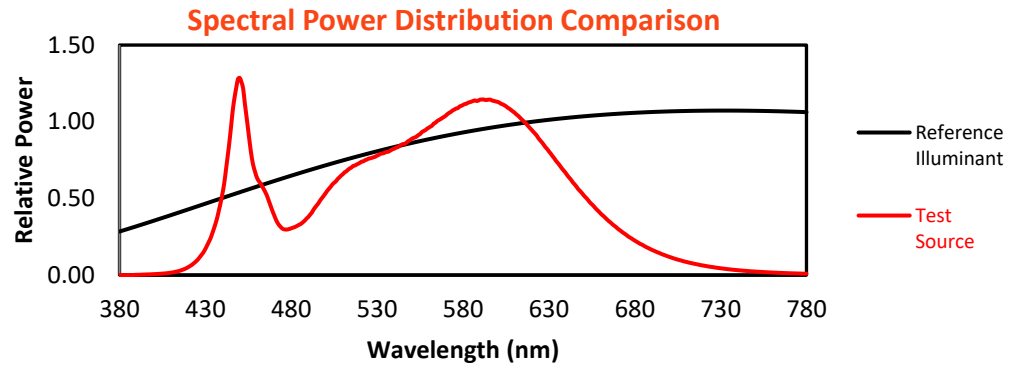
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	296	NR	620	736	NR	750	18	NR	880	0	NR
365	0	NR	495	355	NR	625	683	NR	755	15	NR	885	0	NR
370	0	NR	500	415	NR	630	628	NR	760	13	NR	890	0	NR
375	0	NR	505	468	NR	635	571	NR	765	11	NR	895	0	NR
380	0	NR	510	511	NR	640	515	NR	770	9	NR	900	0	NR
385	0	NR	515	545	NR	645	460	NR	775	8	NR	905	0	NR
390	1	NR	520	570	NR	650	408	NR	780	7	NR	910	0	NR
395	3	NR	525	590	NR	655	359	NR	785	6	NR	915	0	NR
400	5	NR	530	606	NR	660	313	NR	790	5	NR	920	0	NR
405	7	NR	535	623	NR	665	273	NR	795	4	NR	925	0	NR
410	12	NR	540	641	NR	670	236	NR	800	4	NR	930	0	NR
415	22	NR	545	664	NR	675	204	NR	805	3	NR	935	0	NR
420	40	NR	550	690	NR	680	175	NR	810	3	NR	940	0	NR
425	73	NR	555	715	NR	685	151	NR	815	2	NR	945	0	NR
430	133	NR	560	747	NR	690	128	NR	820	2	NR	950	0	NR
435	236	NR	565	781	NR	695	109	NR	825	2	NR	955	0	NR
440	416	NR	570	809	NR	700	93	NR	830	1	NR	960	0	NR
445	757	NR	575	840	NR	705	78	NR	835	1	NR	965	0	NR
450	1000	NR	580	863	NR	710	67	NR	840	1	NR	970	0	NR
455	730	NR	585	880	NR	715	57	NR	845	1	NR	975	0	NR
460	494	NR	590	890	NR	720	48	NR	850	1	NR	980	0	NR
465	419	NR	595	890	NR	725	41	NR	855	1	NR	985	0	NR
470	305	NR	600	879	NR	730	35	NR	860	1	NR	990	0	NR
475	235	NR	605	856	NR	735	29	NR	865	1	NR	995	0	NR
480	237	NR	610	824	NR	740	25	NR	870	1	NR	1000	0	NR
485	257	NR	615	783	NR	745	21	NR	875	1	NR			

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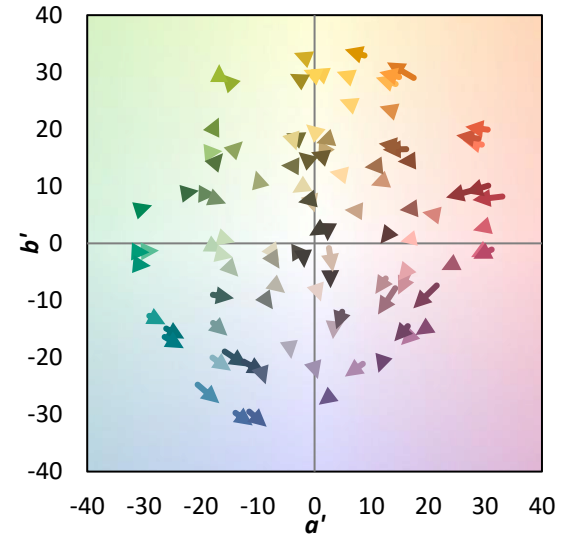
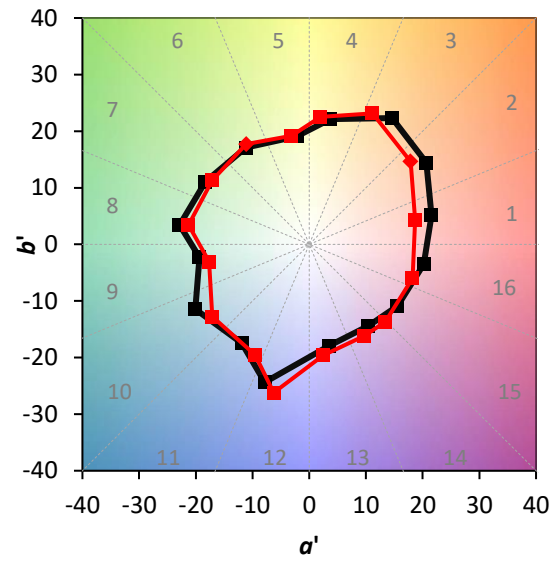
TM-30-18

Summary

$R_f = 82.9$
 $R_g = 94.7$
 $CIE R_a = 80.8$
 $R_g = -5.1$

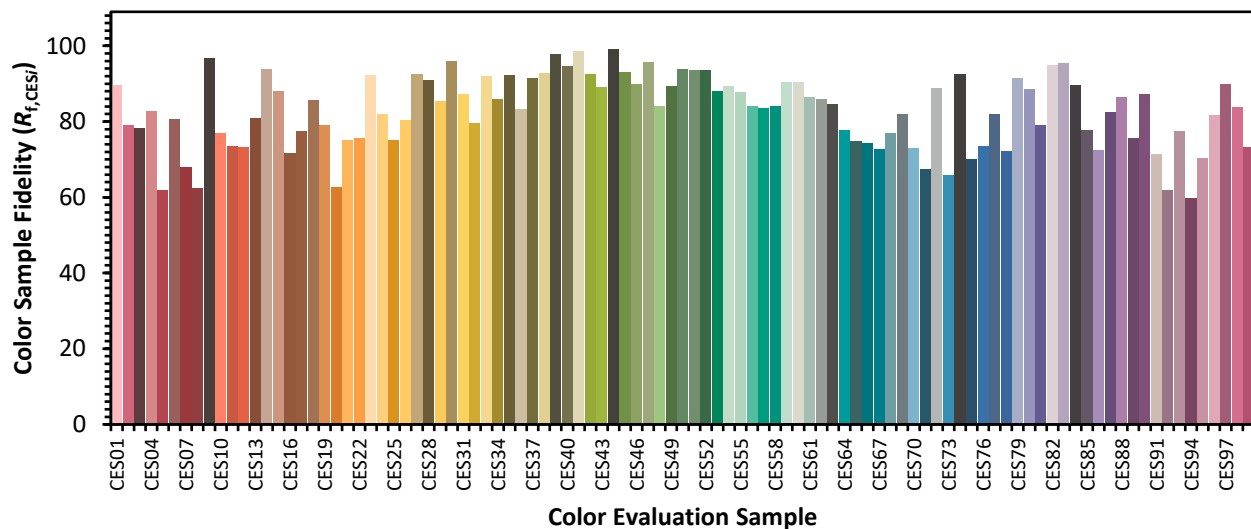


Color Vector Graphics



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

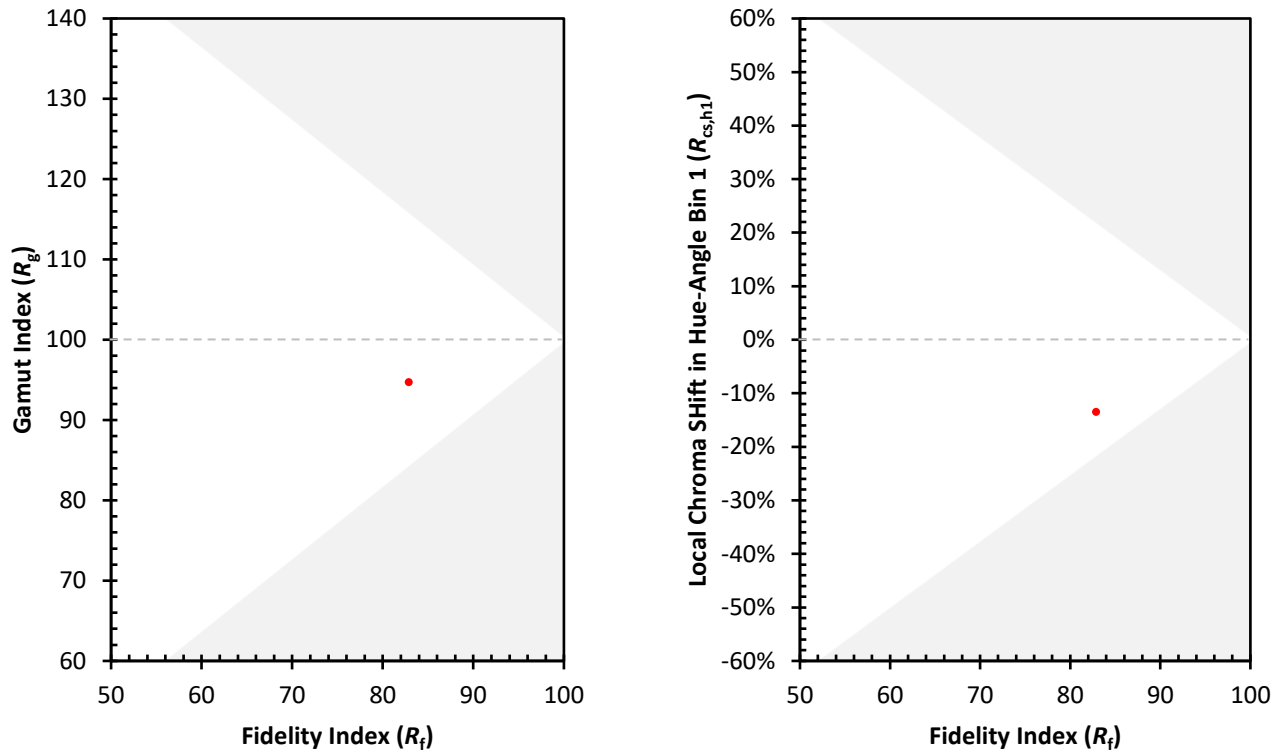
CES01 = 85	CES26 = 80	CES51 = 94	CES76 = 73
CES02 = 61	CES27 = 93	CES52 = 94	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 88	CES78 = 72
CES04 = 70	CES29 = 85	CES54 = 89	CES79 = 91
CES05 = 48	CES30 = 96	CES55 = 88	CES80 = 89
CES06 = 50	CES31 = 87	CES56 = 84	CES81 = 79
CES07 = 40	CES32 = 80	CES57 = 83	CES82 = 95
CES08 = 39	CES33 = 92	CES58 = 84	CES83 = 95
CES09 = 29	CES34 = 86	CES59 = 90	CES84 = 90
CES10 = 74	CES35 = 92	CES60 = 90	CES85 = 78
CES11 = 57	CES36 = 83	CES61 = 86	CES86 = 72
CES12 = 63	CES37 = 91	CES62 = 86	CES87 = 83
CES13 = 42	CES38 = 93	CES63 = 85	CES88 = 87
CES14 = 74	CES39 = 98	CES64 = 78	CES89 = 76
CES15 = 71	CES40 = 95	CES65 = 75	CES90 = 87
CES16 = 47	CES41 = 99	CES66 = 74	CES91 = 71
CES17 = 49	CES42 = 93	CES67 = 73	CES92 = 62
CES18 = 56	CES43 = 89	CES68 = 77	CES93 = 77
CES19 = 71	CES44 = 99	CES69 = 82	CES94 = 60
CES20 = 65	CES45 = 93	CES70 = 73	CES95 = 70
CES21 = 86	CES46 = 90	CES71 = 67	CES96 = 82
CES22 = 78	CES47 = 96	CES72 = 89	CES97 = 90
CES23 = 91	CES48 = 84	CES73 = 66	CES98 = 84
CES24 = 90	CES49 = 89	CES74 = 93	CES99 = 73
CES25 = 71	CES50 = 94	CES75 = 70	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)