

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: P1212042

Luminaire Tested: **GKO-PB1E-840-U-T1**

Issue Date: 11/5/2025



Test Information

Test Method: LM-79-08
Report Number: P1212042
Test Lab: INNOVATION CENTER(G1)
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GKO-PB1E-840-U-T1
Description: GEKKO WALL PACK 5000LM PACKAGE 80CRI 4000K FIXTURE w/ TYPE I DISTRIBUTION OPTIC
Light Source: (10) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

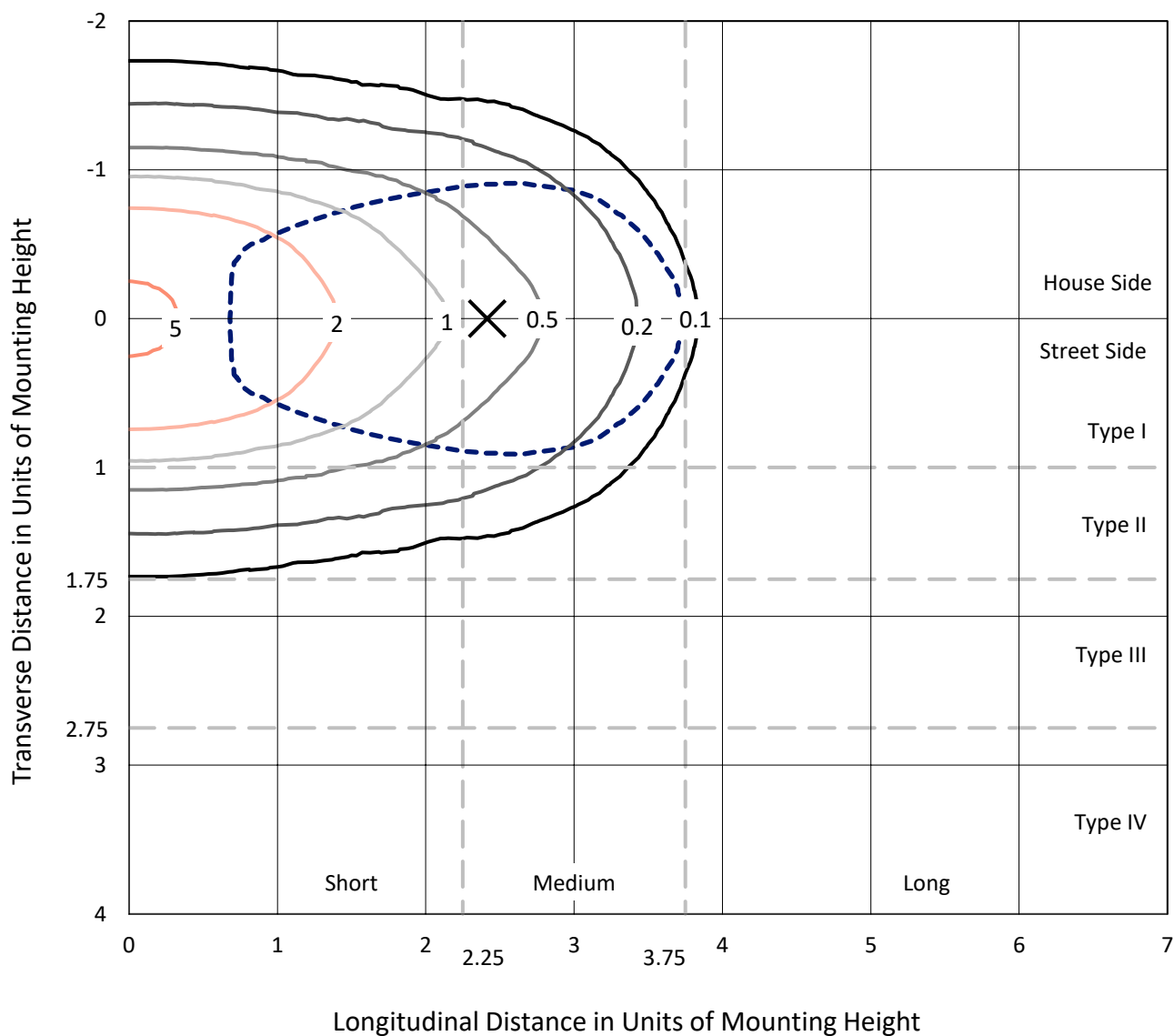
Lumens per Lamp: N/A
Luminaire Lumens: 5013.6 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 38.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): 9%
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

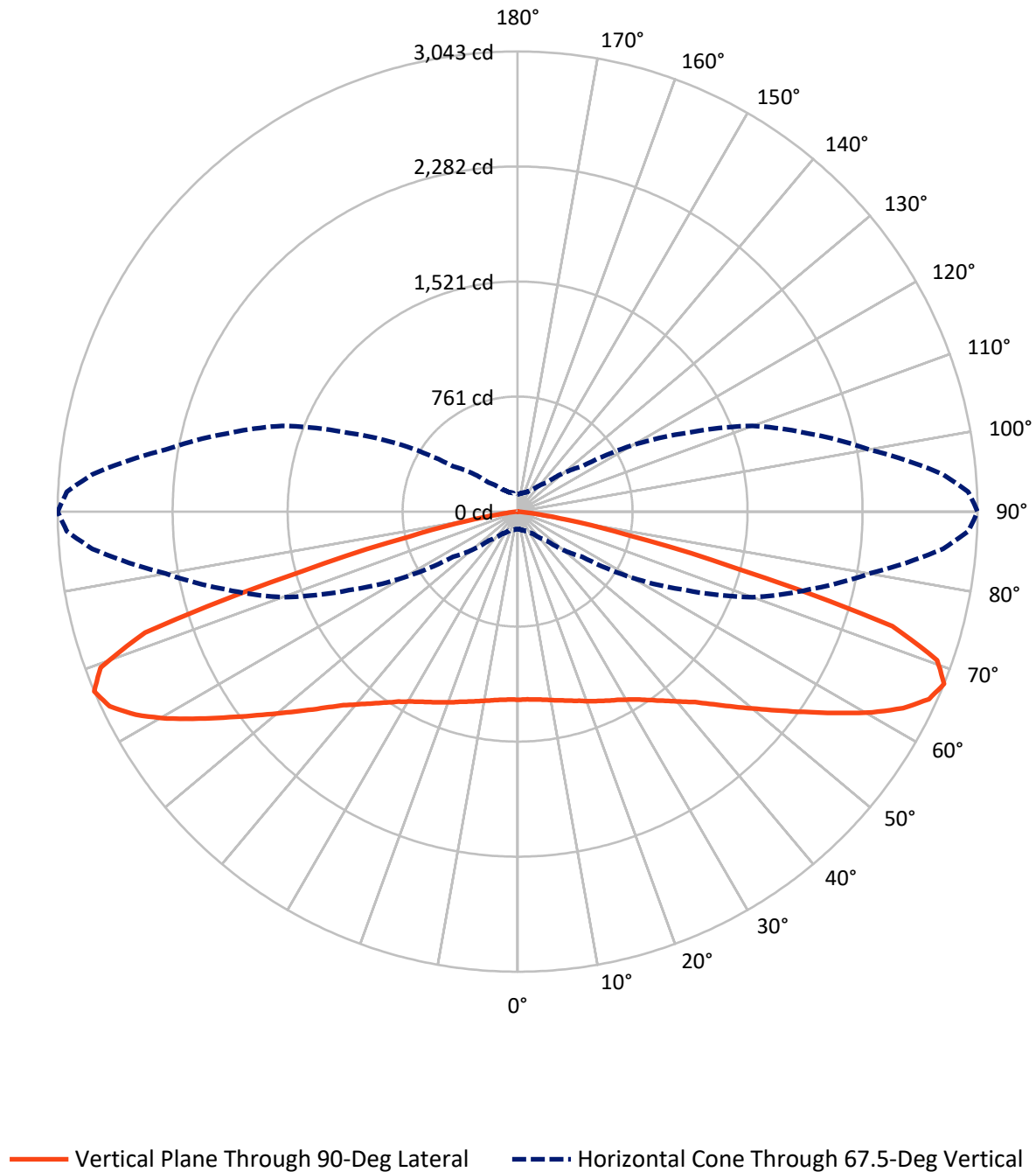
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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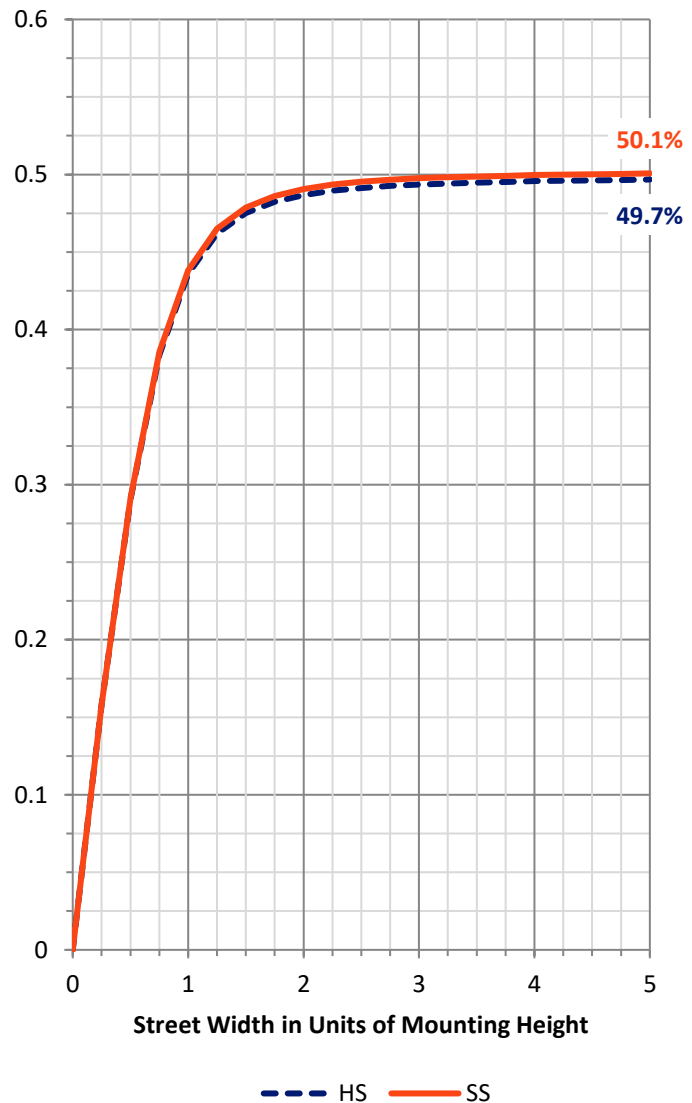
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2506.8	0.0	2506.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2506.8	0.0	2506.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	5013.6	0.0	5013.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	2.4
10°-20°	359.5	7.2
20°-30°	597.9	11.9
30°-40°	794.2	15.8
40°-50°	895.4	17.9
50°-60°	920.7	18.4
60°-70°	870.1	17.4
70°-80°	425.9	8.5
80°-90°	30.5	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°	5013.6	100.0
0°-180°	5013.6	100.0

Coefficient of Utilization



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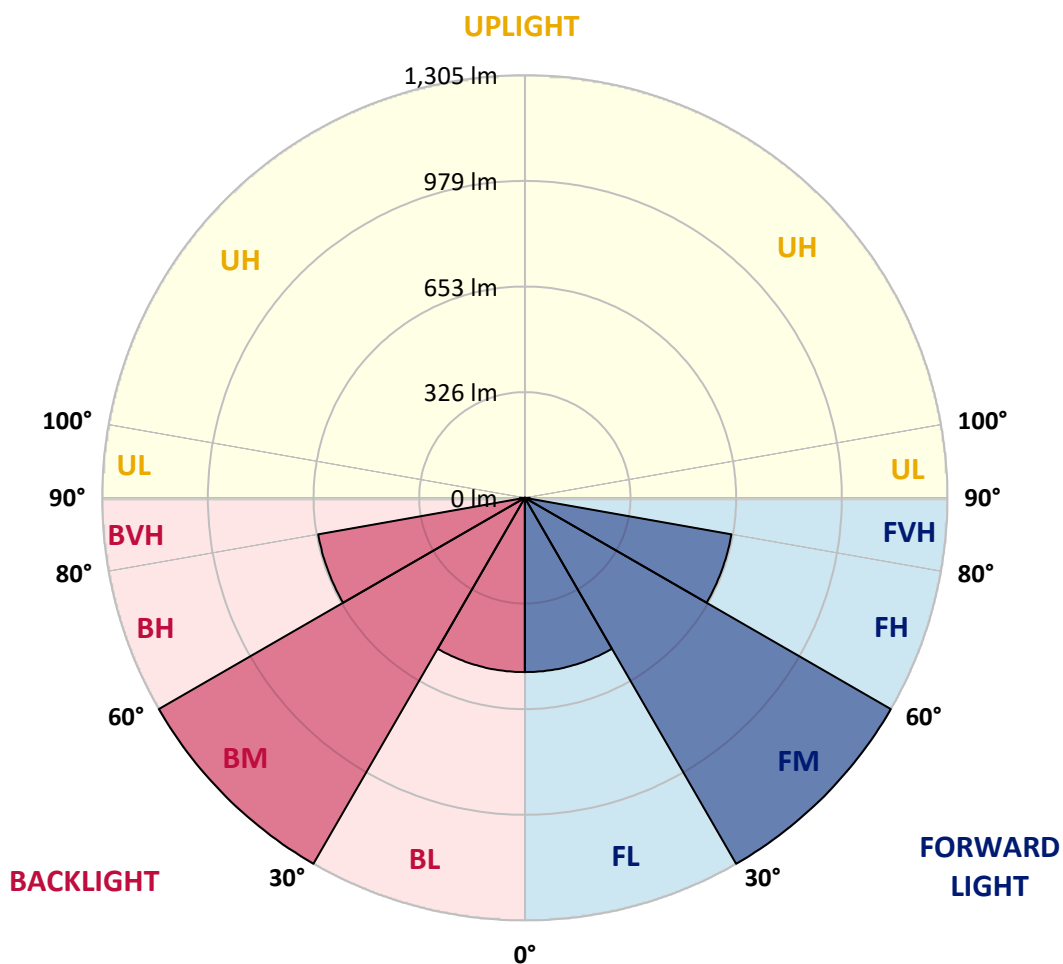
CATALOG NUMBER: GKO-PB1E-840-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	538.4	10.7			
FM	(30°-60°)	1305.2	26.0			
FH	(60°-80°)	648.0	12.9			G0/660
FVH	(80°-90°)	15.2	0.3			G1/100
BL	(0°-30°)	538.4	10.7	B2/1000		
BM	(30°-60°)	1305.2	26.0	B2/2500		
BH	(60°-80°)	648.0	12.9	B2/1000		G2/1000
BVH	(80°-90°)	15.2	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°	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1
2.5°	1245.0	1246.9	1243.2	1243.2	1245.0	1245.9	1245.9	1246.9	1245.0	1245.0	1244.1
5°	1245.0	1245.9	1244.1	1244.1	1245.9	1248.7	1247.8	1249.6	1249.6	1248.7	1248.7
7.5°	1244.1	1245.9	1244.1	1245.0	1247.8	1253.3	1253.3	1253.3	1255.2	1257.0	1257.0
10°	1243.2	1245.0	1245.9	1246.9	1250.6	1258.9	1260.7	1261.6	1264.4	1267.2	1267.2
12.5°	1238.5	1240.4	1243.2	1246.9	1253.3	1264.4	1268.1	1270.9	1275.5	1278.3	1280.1
15°	1232.1	1233.0	1239.5	1246.9	1257.0	1270.9	1278.3	1282.9	1289.4	1293.1	1295.8
17.5°	1222.8	1223.7	1233.9	1245.0	1259.8	1279.2	1291.2	1298.6	1305.1	1310.6	1314.3
20°	1210.8	1213.6	1225.6	1243.2	1264.4	1287.5	1305.1	1318.0	1324.5	1330.0	1335.6
22.5°	1196.0	1198.8	1213.6	1238.5	1269.0	1298.6	1321.7	1338.4	1346.7	1354.1	1360.5
25°	1173.8	1177.5	1195.1	1227.4	1270.9	1310.6	1340.2	1361.5	1368.9	1378.1	1383.7
27.5°	1139.6	1142.4	1163.7	1205.3	1265.3	1323.6	1361.5	1386.4	1394.7	1404.9	1410.5
30°	1086.0	1091.6	1117.5	1169.2	1251.5	1333.7	1386.4	1411.4	1421.5	1431.7	1439.1
32.5°	1016.7	1025.0	1053.7	1120.2	1224.7	1337.4	1413.2	1441.9	1454.8	1465.9	1475.2
35°	930.8	939.1	973.3	1057.4	1182.2	1330.0	1440.0	1477.0	1492.7	1507.5	1518.6
37.5°	832.8	840.2	881.8	977.9	1121.2	1306.9	1461.3	1515.8	1537.1	1556.5	1571.3
40°	733.9	742.2	787.5	890.1	1047.2	1262.6	1470.5	1558.3	1585.1	1610.1	1628.6
42.5°	626.7	636.8	687.7	796.7	961.3	1201.6	1463.1	1599.9	1633.2	1667.4	1695.1
45°	531.5	533.3	588.8	694.1	867.0	1123.0	1437.3	1639.7	1685.0	1733.0	1772.8
47.5°	440.0	443.7	491.7	596.2	769.0	1034.3	1390.1	1671.1	1743.2	1805.1	1863.4
50°	358.6	363.2	406.7	500.0	671.0	937.2	1326.3	1689.6	1793.1	1877.2	1958.6
52.5°	292.1	297.6	333.7	415.9	572.1	835.6	1247.8	1692.4	1838.4	1949.3	2057.5
55°	243.1	246.8	274.5	340.1	476.9	730.2	1158.1	1678.5	1868.0	2014.0	2158.2
57.5°	205.2	208.9	228.3	280.1	391.0	622.0	1049.1	1646.1	1883.7	2070.4	2259.9
60°	178.4	181.2	195.0	232.0	321.7	520.4	931.7	1588.8	1879.1	2105.5	2344.0
62.5°	159.0	159.9	171.9	197.8	265.3	424.2	799.5	1502.9	1841.2	2110.1	2401.3
65°	141.4	142.3	149.7	168.2	218.1	341.1	661.8	1384.6	1769.1	2077.8	2409.6
67.5°	114.6	116.5	127.6	141.4	179.3	269.9	521.3	1229.3	1656.3	1993.7	2362.5
70°	91.5	92.4	103.5	119.2	146.0	212.6	400.2	1020.4	1479.8	1856.9	2240.5
72.5°	68.4	70.2	80.4	96.1	119.2	164.5	289.3	771.8	1183.1	1565.7	1951.2
75°	54.5	55.5	59.2	73.9	92.4	124.8	195.0	467.7	712.6	968.6	1196.0
77.5°	46.2	47.1	47.1	57.3	68.4	84.1	103.5	185.8	301.3	428.9	568.4
80°	37.9	39.7	36.0	42.5	49.0	49.0	48.1	88.7	142.3	201.5	264.3
82.5°	27.7	29.6	27.7	29.6	29.6	26.8	25.0	33.3	45.3	61.9	67.5
85°	19.4	20.3	22.2	20.3	19.4	15.7	12.0	9.2	5.5	6.5	9.2
87.5°	12.9	15.7	18.5	17.6	14.8	12.0	8.3	5.5	2.8	3.7	3.7
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):

	85°	87.5°	90°
0°	1244.1	1244.1	1244.1
2.5°	1245.0	1244.1	1243.2
5°	1249.6	1248.7	1247.8
7.5°	1256.1	1256.1	1256.1
10°	1266.3	1268.1	1268.1
12.5°	1279.2	1281.1	1281.1
15°	1294.9	1295.8	1297.7
17.5°	1314.3	1315.3	1315.3
20°	1337.4	1336.5	1338.4
22.5°	1360.5	1360.5	1360.5
25°	1384.6	1384.6	1384.6
27.5°	1412.3	1412.3	1410.5
30°	1442.8	1442.8	1442.8
32.5°	1479.8	1480.7	1481.6
35°	1526.9	1528.8	1531.5
37.5°	1580.5	1585.1	1587.9
40°	1644.3	1646.1	1650.8
42.5°	1715.5	1721.0	1721.9
45°	1804.2	1813.4	1817.1
47.5°	1908.6	1921.6	1928.1
50°	2025.1	2039.9	2049.1
52.5°	2151.7	2175.8	2186.9
55°	2286.7	2328.3	2340.3
57.5°	2439.2	2495.6	2512.2
60°	2588.9	2668.4	2695.2
62.5°	2716.5	2828.3	2861.6
65°	2806.1	2941.1	2990.1
67.5°	2824.6	2984.5	3042.7
70°	2713.7	2877.3	2944.8
72.5°	2359.7	2507.6	2591.7
75°	1393.8	1500.1	1474.2
77.5°	699.7	730.2	734.8
80°	306.9	325.3	332.7
82.5°	75.8	77.6	87.8
85°	10.2	12.0	11.1
87.5°	3.7	3.7	4.6
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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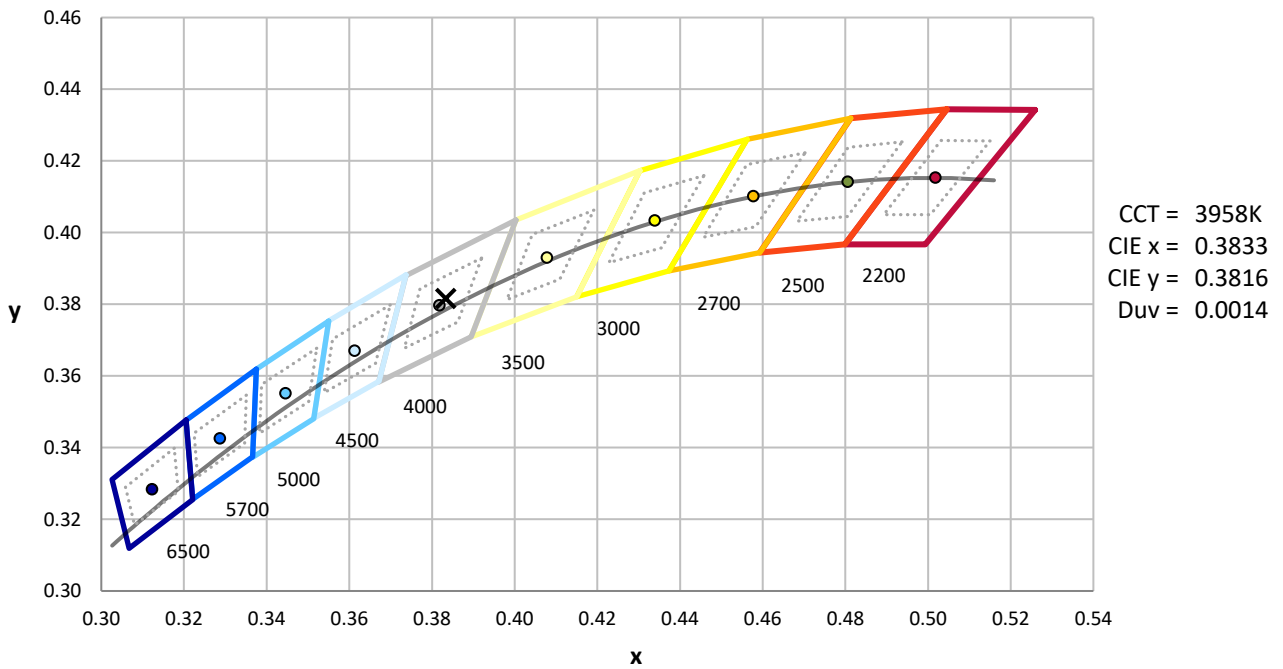
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	3M SPHERE IN02505	7/1/2025	1/1/2026
Power Meter	XITRON INXT2011006	10/21/2025	10/21/2026
AC Power Source	CHROMA 61604 IN6064A	10/20/2025	10/20/2026
DC Power Source	EYSIGHT N5770A IN0534	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

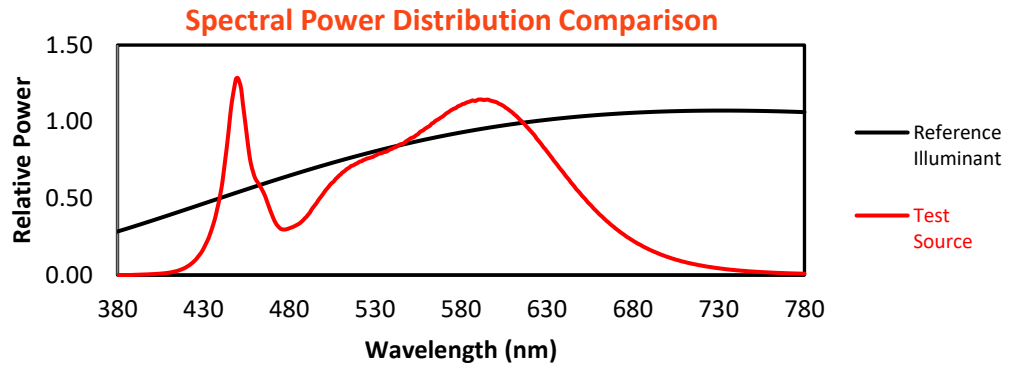
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	296	NR	620	736	NR	750	18	NR	880	0	NR
365	0	NR	495	355	NR	625	683	NR	755	15	NR	885	0	NR
370	0	NR	500	415	NR	630	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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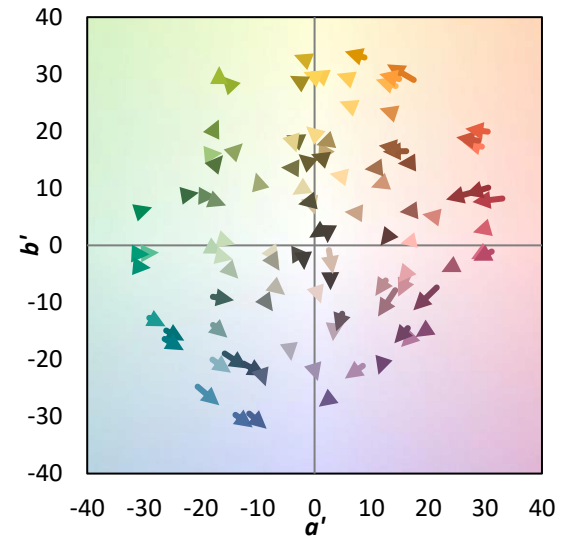
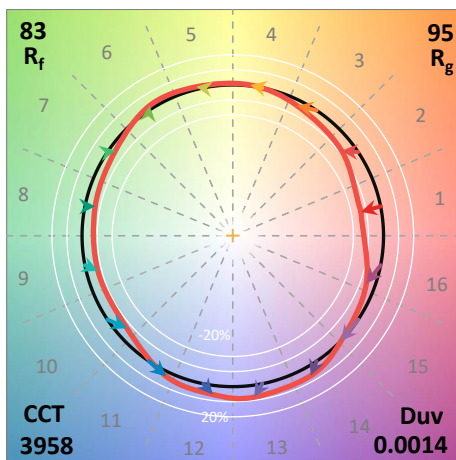
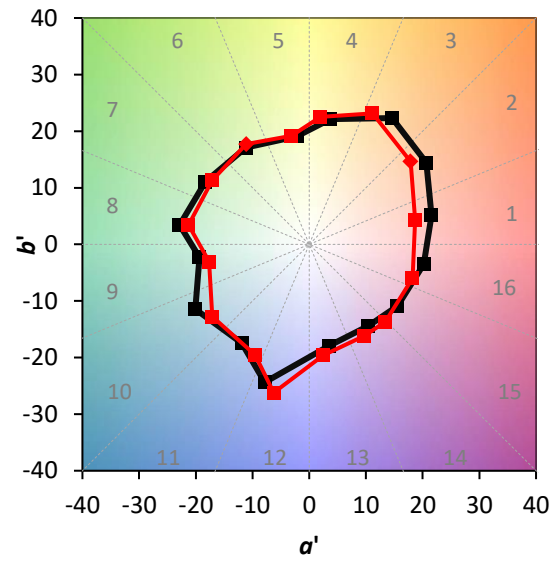
TM-30-18

Summary

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

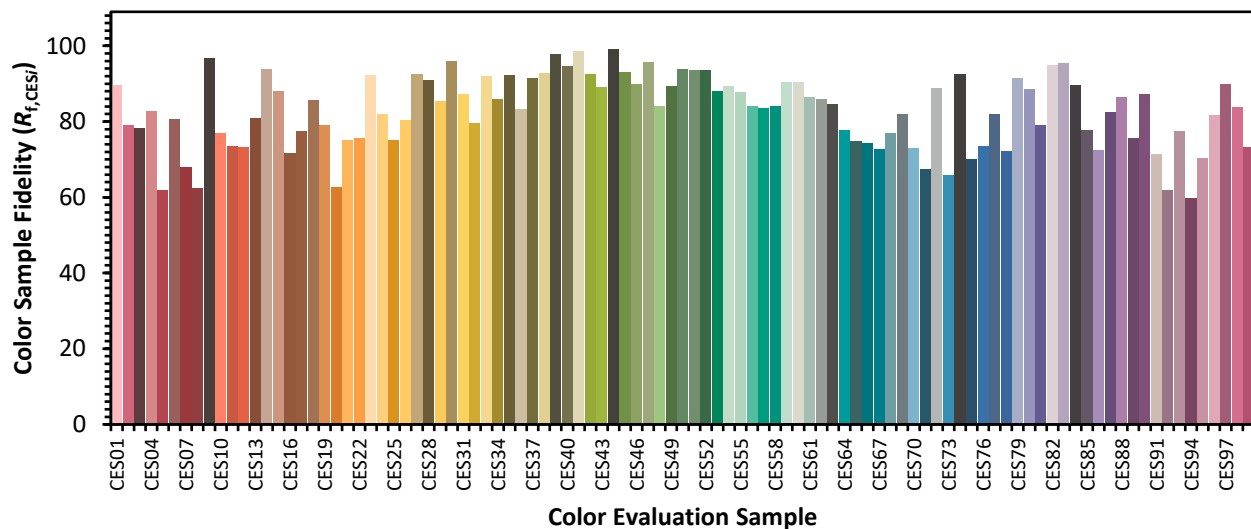


Color Vector Graphics



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

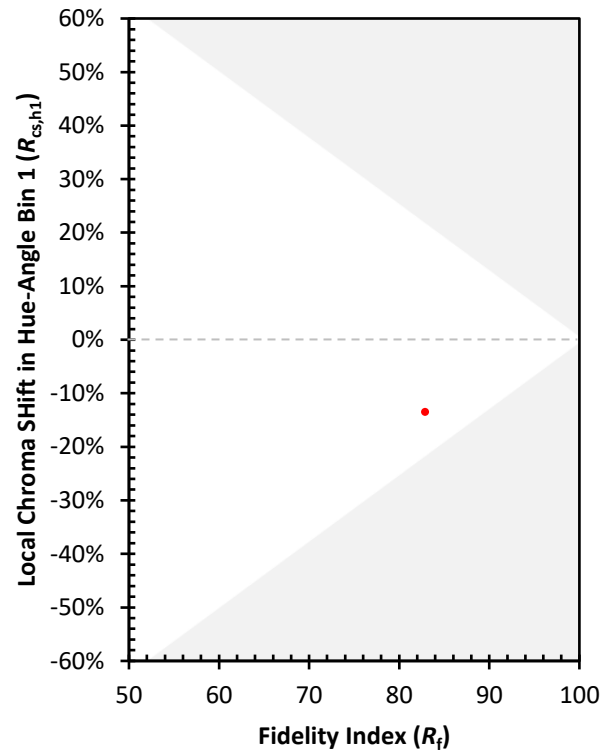
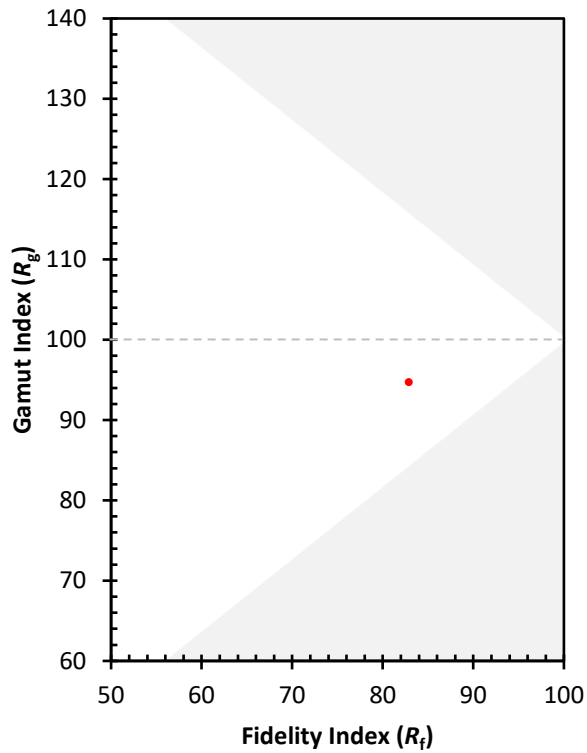
CES01 = 85	CES26 = 80	CES51 = 94	CES76 = 73
CES02 = 61	CES27 = 93	CES52 = 94	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 88	CES78 = 72
CES04 = 70	CES29 = 85	CES54 = 89	CES79 = 91
CES05 = 48	CES30 = 96	CES55 = 88	CES80 = 89
CES06 = 50	CES31 = 87	CES56 = 84	CES81 = 79
CES07 = 40	CES32 = 80	CES57 = 83	CES82 = 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)