

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: P972422

Luminaire Tested: **GKO-PB1E-740-U-T1**

Issue Date: 02/27/2025



Test Information

Test Method: LM-79-08
Report Number: P972422
Test Lab: INNOVATION CENTER(G1)
Issue Date: 02/27/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GKO-PB1E-740-U-T1
Description: GEKKO WALL PACK 5000LM PACKAGE 70CRI 4000K FIXTURE w/ TYPE I DISTRIBUTION OPTIC
Light Source: (10) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5426 lumens
Efficiency: N/A
Efficacy: 140.2 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

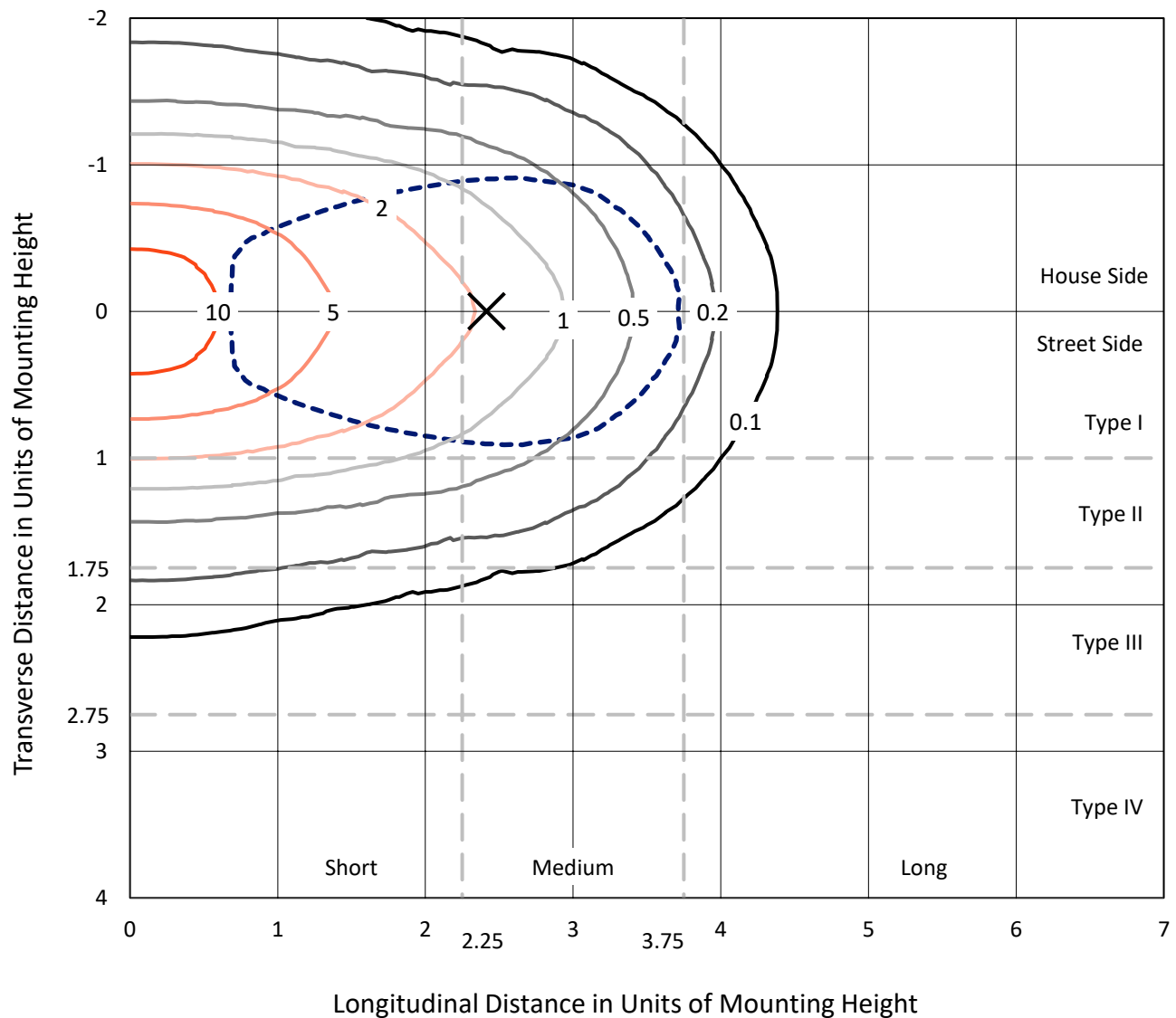
Input Watts (W): 38.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): 9%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

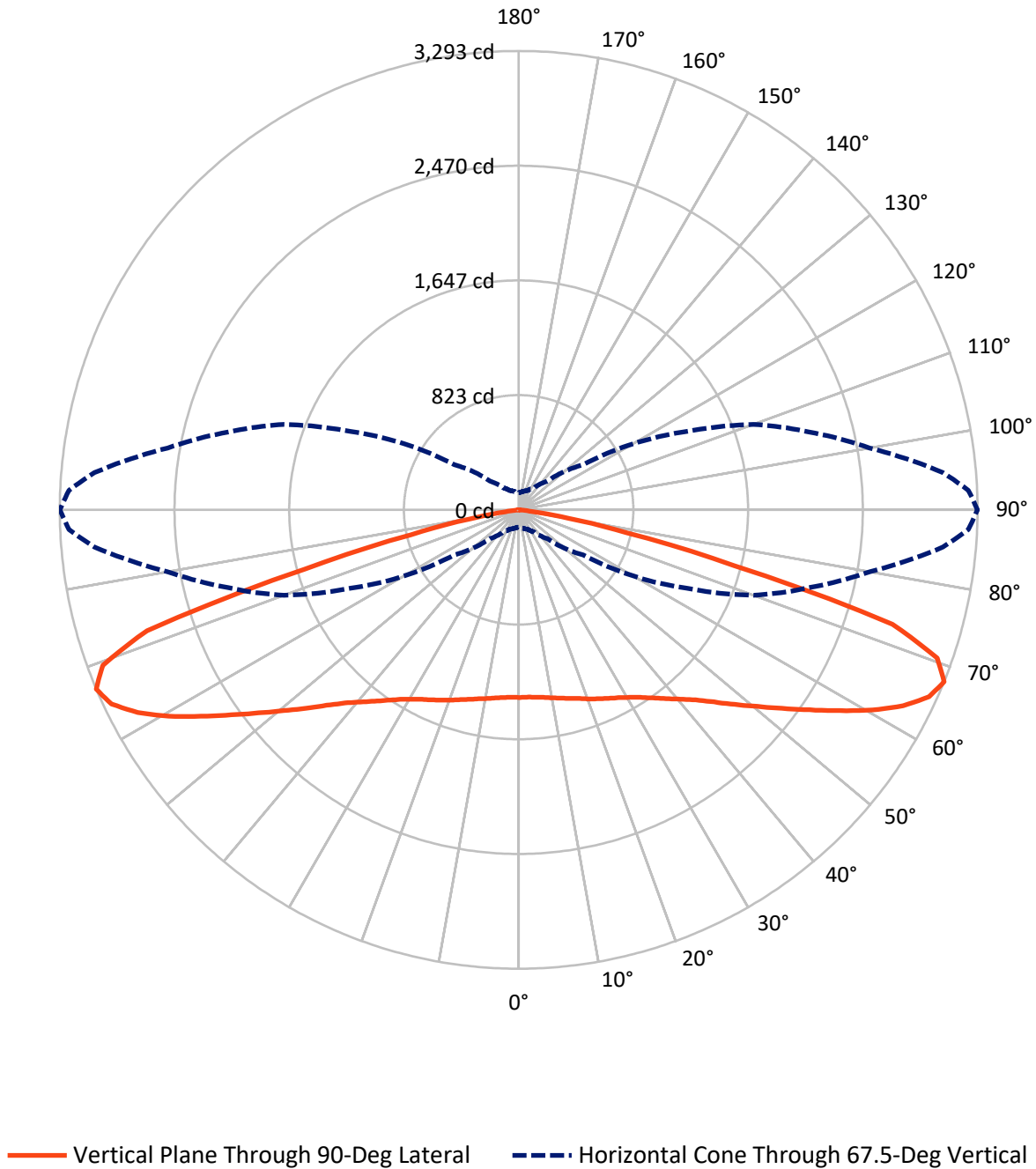


Based on 10 foot mounting height. Maximum calculated value = 13.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GKO-PB1E-740-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2713.0	0.0	2713.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2713.0	0.0	2713.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5426.0	0.0	5426.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	2.4
10°-20°	389.1	7.2
20°-30°	647.0	11.9
30°-40°	859.6	15.8
40°-50°	969.1	17.9
50°-60°	996.5	18.4
60°-70°	941.7	17.4
70°-80°	461.0	8.5
80°-90°	33.0	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°	5426.0	100.0
0°-180°	5426.0	100.0

Coefficient of Utilization



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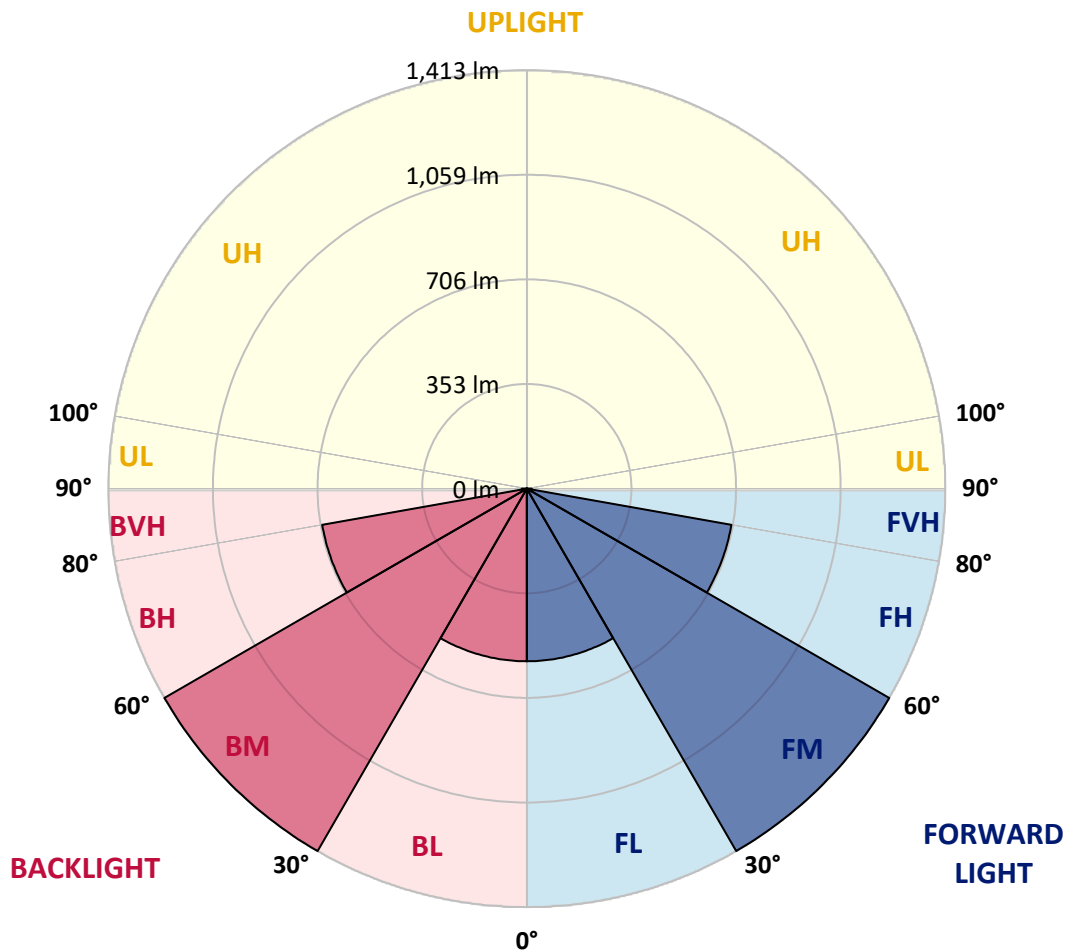
CATALOG NUMBER: GKO-PB1E-740-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	582.6	10.7			
FM	(30°-60°)	1412.5	26.0			
FH	(60°-80°)	701.3	12.9			G1/1800
FVH	(80°-90°)	16.5	0.3			G1/100
BL	(0°-30°)	582.6	10.7	B2/1000		
BM	(30°-60°)	1412.5	26.0	B2/2500		
BH	(60°-80°)	701.3	12.9	B2/1000		G2/1000
BVH	(80°-90°)	16.5	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°	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4
2.5°	1347.4	1349.4	1345.4	1345.4	1347.4	1348.4	1348.4	1349.4	1347.4	1347.4	1346.4
5°	1347.4	1348.4	1346.4	1346.4	1348.4	1351.4	1350.4	1352.4	1352.4	1351.4	1351.4
7.5°	1346.4	1348.4	1346.4	1347.4	1350.4	1356.4	1356.4	1356.4	1358.4	1360.4	1360.4
10°	1345.4	1347.4	1348.4	1349.4	1353.4	1362.4	1364.4	1365.4	1368.4	1371.4	1371.4
12.5°	1340.4	1342.4	1345.4	1349.4	1356.4	1368.4	1372.4	1375.4	1380.4	1383.4	1385.4
15°	1333.4	1334.4	1341.4	1349.4	1360.4	1375.4	1383.4	1388.4	1395.4	1399.4	1402.4
17.5°	1323.4	1324.4	1335.4	1347.4	1363.4	1384.4	1397.4	1405.4	1412.4	1418.4	1422.4
20°	1310.4	1313.4	1326.4	1345.4	1368.4	1393.4	1412.4	1426.4	1433.4	1439.4	1445.4
22.5°	1294.4	1297.4	1313.4	1340.4	1373.4	1405.4	1430.4	1448.4	1457.4	1465.4	1472.4
25°	1270.4	1274.4	1293.4	1328.4	1375.4	1418.4	1450.4	1473.4	1481.5	1491.5	1497.5
27.5°	1233.4	1236.4	1259.4	1304.4	1369.4	1432.4	1473.4	1500.5	1509.5	1520.5	1526.5
30°	1175.4	1181.4	1209.4	1265.4	1354.4	1443.4	1500.5	1527.5	1538.5	1549.5	1557.5
32.5°	1100.3	1109.3	1140.3	1212.4	1325.4	1447.4	1529.5	1560.5	1574.5	1586.5	1596.5
35°	1007.3	1016.3	1053.3	1144.3	1279.4	1439.4	1558.5	1598.5	1615.5	1631.5	1643.5
37.5°	901.3	909.3	954.3	1058.3	1213.4	1414.4	1581.5	1640.5	1663.5	1684.5	1700.5
40°	794.2	803.2	852.3	963.3	1133.3	1366.4	1591.5	1686.5	1715.5	1742.5	1762.5
42.5°	678.2	689.2	744.2	862.3	1040.3	1300.4	1583.5	1731.5	1767.5	1804.6	1834.6
45°	575.2	577.2	637.2	751.2	938.3	1215.4	1555.5	1774.5	1823.6	1875.6	1918.6
47.5°	476.1	480.1	532.2	645.2	832.3	1119.3	1504.5	1808.6	1886.6	1953.6	2016.6
50°	388.1	393.1	440.1	541.2	726.2	1014.3	1435.4	1828.6	1940.6	2031.6	2119.6
52.5°	316.1	322.1	361.1	450.1	619.2	904.3	1350.4	1831.6	1989.6	2109.6	2226.7
55°	263.1	267.1	297.1	368.1	516.2	790.2	1253.4	1816.6	2021.6	2179.7	2335.7
57.5°	222.1	226.1	247.1	303.1	423.1	673.2	1135.3	1781.5	2038.6	2240.7	2445.7
60°	193.1	196.1	211.1	251.1	348.1	563.2	1008.3	1719.5	2033.6	2278.7	2536.8
62.5°	172.1	173.1	186.1	214.1	287.1	459.1	865.3	1626.5	1992.6	2283.7	2598.8
65°	153.0	154.0	162.0	182.1	236.1	369.1	716.2	1498.5	1914.6	2248.7	2607.8
67.5°	124.0	126.0	138.0	153.0	194.1	292.1	564.2	1330.4	1792.5	2157.7	2556.8
70°	99.0	100.0	112.0	129.0	158.0	230.1	433.1	1104.3	1601.5	2009.6	2424.7
72.5°	74.0	76.0	87.0	104.0	129.0	178.1	313.1	835.3	1280.4	1694.5	2111.6
75°	59.0	60.0	64.0	80.0	100.0	135.0	211.1	506.2	771.2	1048.3	1294.4
77.5°	50.0	51.0	51.0	62.0	74.0	91.0	112.0	201.1	326.1	464.1	615.2
80°	41.0	43.0	39.0	46.0	53.0	53.0	52.0	96.0	154.0	218.1	286.1
82.5°	30.0	32.0	30.0	32.0	32.0	29.0	27.0	36.0	49.0	67.0	73.0
85°	21.0	22.0	24.0	22.0	21.0	17.0	13.0	10.0	6.0	7.0	10.0
87.5°	14.0	17.0	20.0	19.0	16.0	13.0	9.0	6.0	3.0	4.0	4.0
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°	1346.4	1346.4	1346.4
2.5°	1347.4	1346.4	1345.4
5°	1352.4	1351.4	1350.4
7.5°	1359.4	1359.4	1359.4
10°	1370.4	1372.4	1372.4
12.5°	1384.4	1386.4	1386.4
15°	1401.4	1402.4	1404.4
17.5°	1422.4	1423.4	1423.4
20°	1447.4	1446.4	1448.4
22.5°	1472.4	1472.4	1472.4
25°	1498.5	1498.5	1498.5
27.5°	1528.5	1528.5	1526.5
30°	1561.5	1561.5	1561.5
32.5°	1601.5	1602.5	1603.5
35°	1652.5	1654.5	1657.5
37.5°	1710.5	1715.5	1718.5
40°	1779.5	1781.5	1786.5
42.5°	1856.6	1862.6	1863.6
45°	1952.6	1962.6	1966.6
47.5°	2065.6	2079.6	2086.6
50°	2191.7	2207.7	2217.7
52.5°	2328.7	2354.7	2366.7
55°	2474.8	2519.8	2532.8
57.5°	2639.8	2700.8	2718.8
60°	2801.9	2887.9	2916.9
62.5°	2939.9	3060.9	3096.9
65°	3036.9	3183.0	3236.0
67.5°	3056.9	3230.0	3293.0
70°	2936.9	3114.0	3187.0
72.5°	2553.8	2713.8	2804.9
75°	1508.5	1623.5	1595.5
77.5°	757.2	790.2	795.2
80°	332.1	352.1	360.1
82.5°	82.0	84.0	95.0
85°	11.0	13.0	12.0
87.5°	4.0	4.0	5.0
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: SP2-2501-321-1

Test Date: 04/09/2025

Luminaire Tested: GKO-PB1E-740-U-T4W

Data in this report applies to families of products including GKO-PB1E-740-U-T4W

Test Information

Test Method: LM-79-2019
 Report Number: SP2-2501-321-1
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP2 - 165CM SPHERE
 Measurement Geometry: 4π
 Issue Date: 04/10/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GKO-PB1E-740-U-T4W**
 Description: Gekko Wedge Wall Pack Fixture 1 SQ w/ T4W distribution

Spectral Parameters

CCT (K):	3916	CRI (Ra):	71.0		
CIE u':	0.2259	R1:	67.4	R9:	-37.9
CIE v':	0.5049	R2:	78.3	R10:	48.9
Duv:	0.0014	R3:	87.2	R11:	64.6
CIE x:	0.3853	R4:	69.5	R12:	40.9
CIE y:	0.3827	R5:	67.2	R13:	69.2
CIE z:	0.2321	R6:	69.3	R14:	92.7
Peak Wavelength (nm):	449	R7:	79.9	R15:	59.8
Dominant Wavelength (nm):	578	R8:	48.9		
Purity:	30.46652				
Rf:	73.5				
Rg:	93.5				



Test Conditions

Stabilization Time: 33M
 Operation Time: 1H 33M
 Sphere Temperature (°C): 25.0

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Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN2187	1/6/2025	7/6/2025
Power Meter	INXT2011002	1/21/2025	1/21/2026
AC Power Source	IN0458	10/22/2024	10/22/2025
DC Power Source	IN0212	10/22/2024	10/22/2025
Sphere Thermometer	IN4036B	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

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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

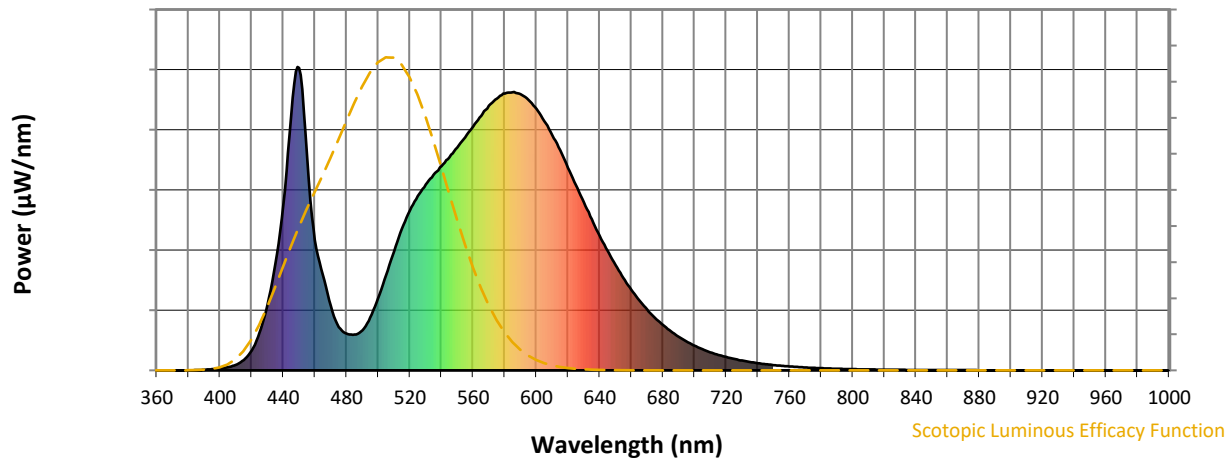


Photopic Lumens: NR

λ (nm)	Power W [^] /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	132	NR	620	668	NR	750	17	NR	880	1	NR
365	0	NR	495	174	NR	625	611	NR	755	15	NR	885	0	NR
370	0	NR	500	238	NR	630	554	NR	760	13	NR	890	0	NR
375	0	NR	505	314	NR	635	498	NR	765	11	NR	895	0	NR
380	0	NR	510	392	NR	640	445	NR	770	10	NR	900	0	NR
385	1	NR	515	467	NR	645	394	NR	775	8	NR	905	0	NR
390	2	NR	520	526	NR	650	347	NR	780	7	NR	910	0	NR
395	4	NR	525	575	NR	655	305	NR	785	6	NR	915	0	NR
400	6	NR	530	613	NR	660	266	NR	790	5	NR	920	0	NR
405	10	NR	535	644	NR	665	231	NR	795	5	NR	925	0	NR
410	18	NR	540	673	NR	670	200	NR	800	4	NR	930	0	NR
415	34	NR	545	703	NR	675	174	NR	805	4	NR	935	0	NR
420	66	NR	550	734	NR	680	150	NR	810	3	NR	940	0	NR
425	124	NR	555	768	NR	685	129	NR	815	3	NR	945	0	NR
430	216	NR	560	804	NR	690	111	NR	820	2	NR	950	0	NR
435	352	NR	565	838	NR	695	95	NR	825	2	NR	955	0	NR
440	548	NR	570	872	NR	700	81	NR	830	2	NR	960	0	NR
445	836	NR	575	896	NR	705	69	NR	835	2	NR	965	0	NR
450	997	NR	580	913	NR	710	60	NR	840	1	NR	970	0	NR
455	705	NR	585	917	NR	715	51	NR	845	1	NR	975	0	NR
460	429	NR	590	911	NR	720	44	NR	850	1	NR	980	0	NR
465	316	NR	595	891	NR	725	38	NR	855	1	NR	985	0	NR
470	213	NR	600	862	NR	730	32	NR	860	1	NR	990	0	NR
475	143	NR	605	822	NR	735	28	NR	865	1	NR	995	0	NR
480	121	NR	610	776	NR	740	24	NR	870	1	NR	1000	0	NR
485	118	NR	615	725	NR	745	20	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



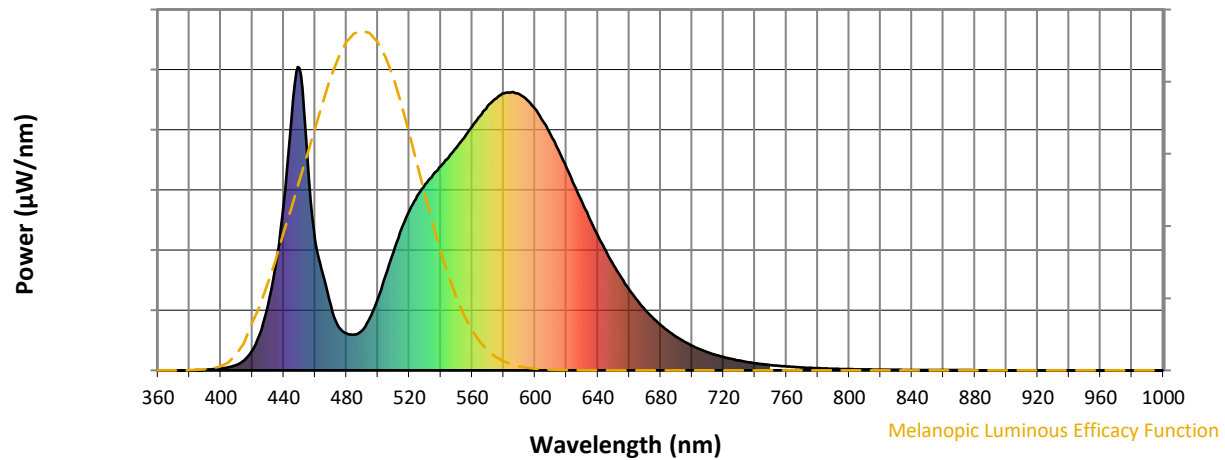
Scotopic Lumens: NR

S/P: 1.49

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	132	NR	620	668	NR	750	17	NR	880	1	NR
365	0	NR	495	174	NR	625	611	NR	755	15	NR	885	0	NR
370	0	NR	500	238	NR	630	554	NR	760	13	NR	890	0	NR
375	0	NR	505	314	NR	635	498	NR	765	11	NR	895	0	NR
380	0	NR	510	392	NR	640	445	NR	770	10	NR	900	0	NR
385	1	NR	515	467	NR	645	394	NR	775	8	NR	905	0	NR
390	2	NR	520	526	NR	650	347	NR	780	7	NR	910	0	NR
395	4	NR	525	575	NR	655	305	NR	785	6	NR	915	0	NR
400	6	NR	530	613	NR	660	266	NR	790	5	NR	920	0	NR
405	10	NR	535	644	NR	665	231	NR	795	5	NR	925	0	NR
410	18	NR	540	673	NR	670	200	NR	800	4	NR	930	0	NR
415	34	NR	545	703	NR	675	174	NR	805	4	NR	935	0	NR
420	66	NR	550	734	NR	680	150	NR	810	3	NR	940	0	NR
425	124	NR	555	768	NR	685	129	NR	815	3	NR	945	0	NR
430	216	NR	560	804	NR	690	111	NR	820	2	NR	950	0	NR
435	352	NR	565	838	NR	695	95	NR	825	2	NR	955	0	NR
440	548	NR	570	872	NR	700	81	NR	830	2	NR	960	0	NR
445	836	NR	575	896	NR	705	69	NR	835	2	NR	965	0	NR
450	997	NR	580	913	NR	710	60	NR	840	1	NR	970	0	NR
455	705	NR	585	917	NR	715	51	NR	845	1	NR	975	0	NR
460	429	NR	590	911	NR	720	44	NR	850	1	NR	980	0	NR
465	316	NR	595	891	NR	725	38	NR	855	1	NR	985	0	NR
470	213	NR	600	862	NR	730	32	NR	860	1	NR	990	0	NR
475	143	NR	605	822	NR	735	28	NR	865	1	NR	995	0	NR
480	121	NR	610	776	NR	740	24	NR	870	1	NR	1000	0	NR
485	118	NR	615	725	NR	745	20	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.88

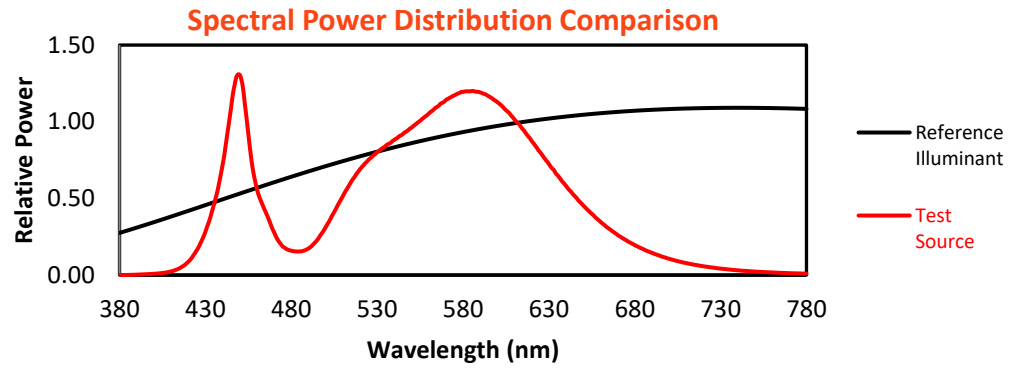
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	132	NR	620	668	NR	750	17	NR	880	1	NR
365	0	NR	495	174	NR	625	611	NR	755	15	NR	885	0	NR
370	0	NR	500	238	NR	630	554	NR	760	13	NR	890	0	NR
375	0	NR	505	314	NR	635	498	NR	765	11	NR	895	0	NR
380	0	NR	510	392	NR	640	445	NR	770	10	NR	900	0	NR
385	1	NR	515	467	NR	645	394	NR	775	8	NR	905	0	NR
390	2	NR	520	526	NR	650	347	NR	780	7	NR	910	0	NR
395	4	NR	525	575	NR	655	305	NR	785	6	NR	915	0	NR
400	6	NR	530	613	NR	660	266	NR	790	5	NR	920	0	NR
405	10	NR	535	644	NR	665	231	NR	795	5	NR	925	0	NR
410	18	NR	540	673	NR	670	200	NR	800	4	NR	930	0	NR
415	34	NR	545	703	NR	675	174	NR	805	4	NR	935	0	NR
420	66	NR	550	734	NR	680	150	NR	810	3	NR	940	0	NR
425	124	NR	555	768	NR	685	129	NR	815	3	NR	945	0	NR
430	216	NR	560	804	NR	690	111	NR	820	2	NR	950	0	NR
435	352	NR	565	838	NR	695	95	NR	825	2	NR	955	0	NR
440	548	NR	570	872	NR	700	81	NR	830	2	NR	960	0	NR
445	836	NR	575	896	NR	705	69	NR	835	2	NR	965	0	NR
450	997	NR	580	913	NR	710	60	NR	840	1	NR	970	0	NR
455	705	NR	585	917	NR	715	51	NR	845	1	NR	975	0	NR
460	429	NR	590	911	NR	720	44	NR	850	1	NR	980	0	NR
465	316	NR	595	891	NR	725	38	NR	855	1	NR	985	0	NR
470	213	NR	600	862	NR	730	32	NR	860	1	NR	990	0	NR
475	143	NR	605	822	NR	735	28	NR	865	1	NR	995	0	NR
480	121	NR	610	776	NR	740	24	NR	870	1	NR	1000	0	NR
485	118	NR	615	725	NR	745	20	NR	875	1	NR			

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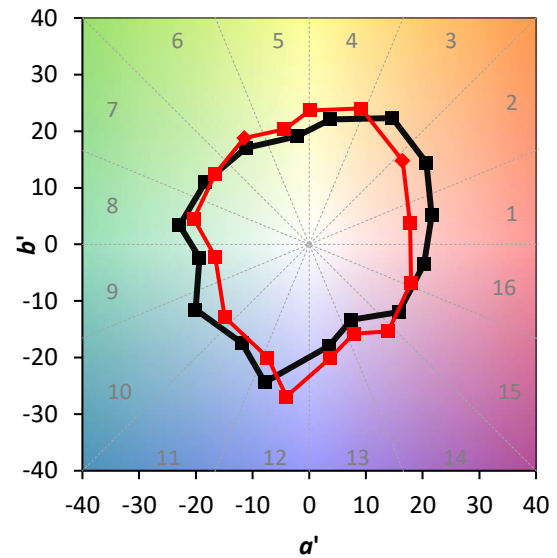
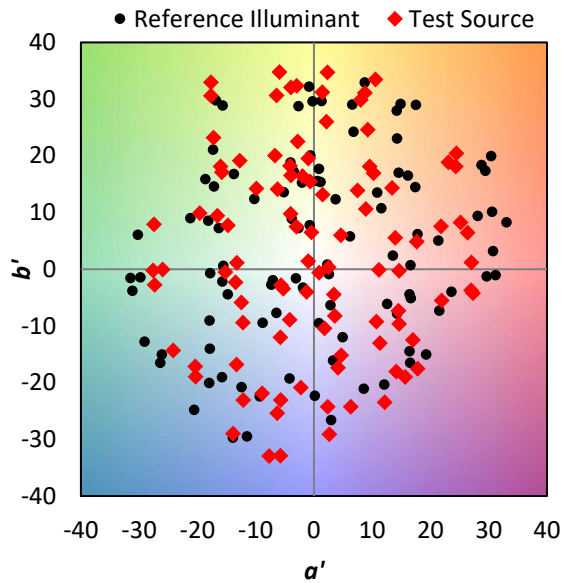
TM-30-18

Summary

$R_f = 73.5$
 $R_g = 93.5$
 $CIE R_a = 71.0$
 $R_g = -37.9$



Color Vector Graphics

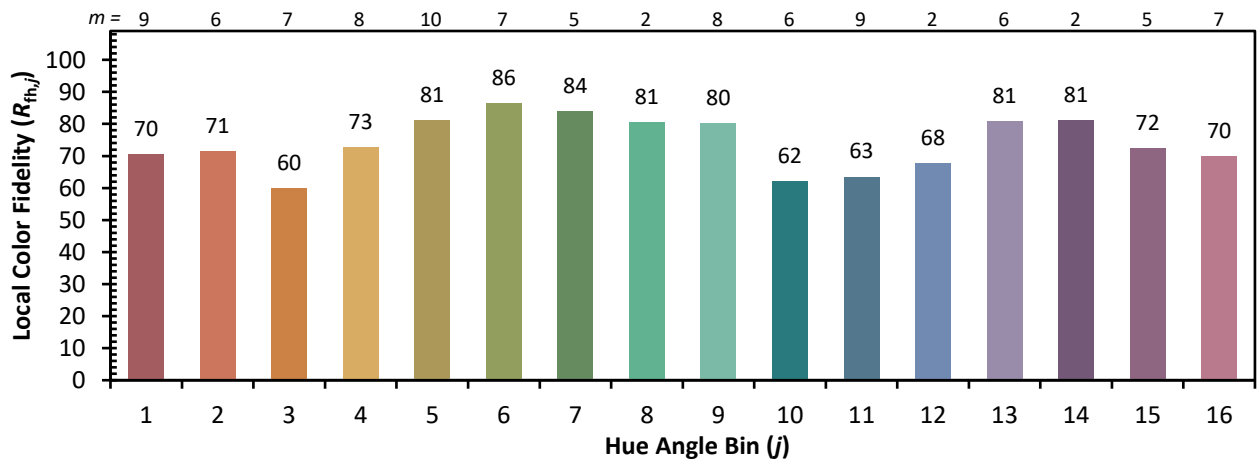
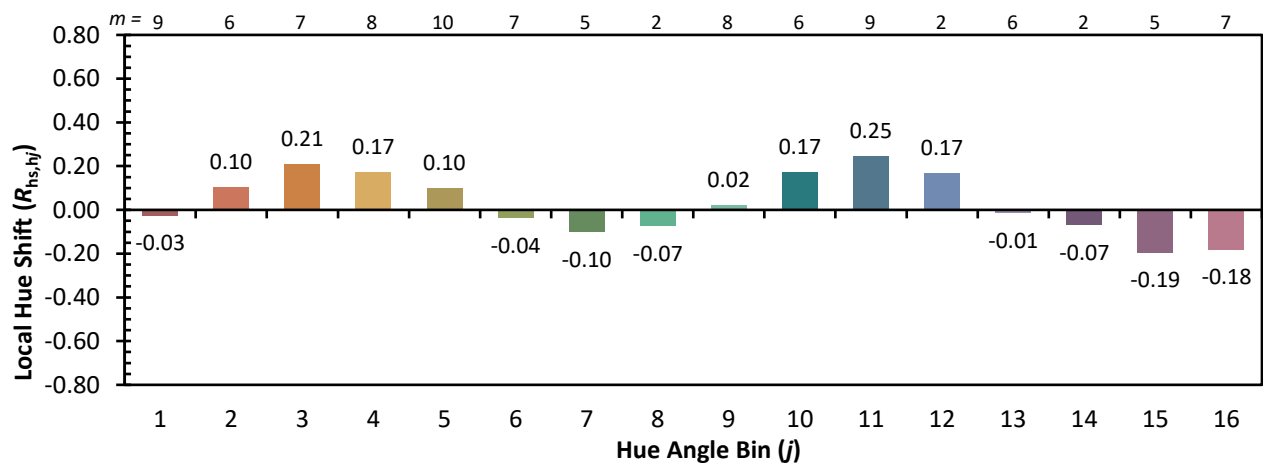


Individual Sample Fidelity Index ($R_{f,i}$)

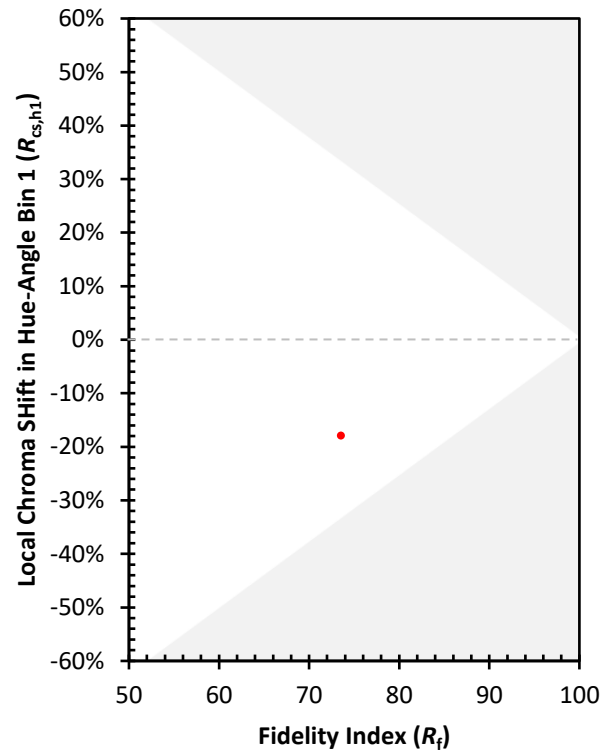
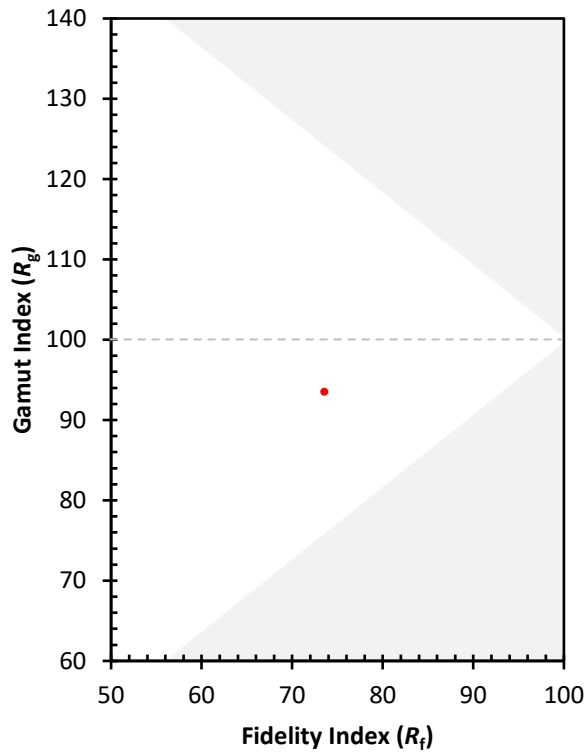
CES01 = 85	CES26 = 62	CES51 = 88	CES76 = 51
CES02 = 61	CES27 = 88	CES52 = 87	CES77 = 70
CES03 = 30	CES28 = 81	CES53 = 77	CES78 = 54
CES04 = 70	CES29 = 66	CES54 = 84	CES79 = 81
CES05 = 47	CES30 = 82	CES55 = 83	CES80 = 79
CES06 = 50	CES31 = 69	CES56 = 73	CES81 = 77
CES07 = 40	CES32 = 61	CES57 = 72	CES82 = 91
CES08 = 39	CES33 = 77	CES58 = 73	CES83 = 90
CES09 = 29	CES34 = 70	CES59 = 85	CES84 = 86
CES10 = 74	CES35 = 84	CES60 = 89	CES85 = 77
CES11 = 57	CES36 = 91	CES61 = 81	CES86 = 71
CES12 = 63	CES37 = 79	CES62 = 85	CES87 = 76
CES13 = 42	CES38 = 92	CES63 = 72	CES88 = 80
CES14 = 74	CES39 = 96	CES64 = 64	CES89 = 70
CES15 = 71	CES40 = 91	CES65 = 61	CES90 = 79
CES16 = 46	CES41 = 93	CES66 = 57	CES91 = 75
CES17 = 49	CES42 = 81	CES67 = 54	CES92 = 58
CES18 = 56	CES43 = 77	CES68 = 63	CES93 = 75
CES19 = 72	CES44 = 99	CES69 = 73	CES94 = 52
CES20 = 65	CES45 = 85	CES70 = 56	CES95 = 65
CES21 = 86	CES46 = 83	CES71 = 49	CES96 = 76
CES22 = 78	CES47 = 86	CES72 = 83	CES97 = 84
CES23 = 92	CES48 = 77	CES73 = 46	CES98 = 75
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 62
CES25 = 72	CES50 = 87	CES75 = 52	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)