

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: P1212031

Luminaire Tested: **GKO-PB2A-830-U-T1**

Issue Date: 11/5/2025



Test Information

Test Method: LM-79-08
Report Number: P1212031
Test Lab: INNOVATION CENTER(G1)
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GKO-PB2A-830-U-T1
Description: GEKKO WALL PACK 4000LM PACKAGE 80CRI 3000K FIXTURE w/ TYPE I DISTRIBUTION OPTIC
Light Source: (20) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

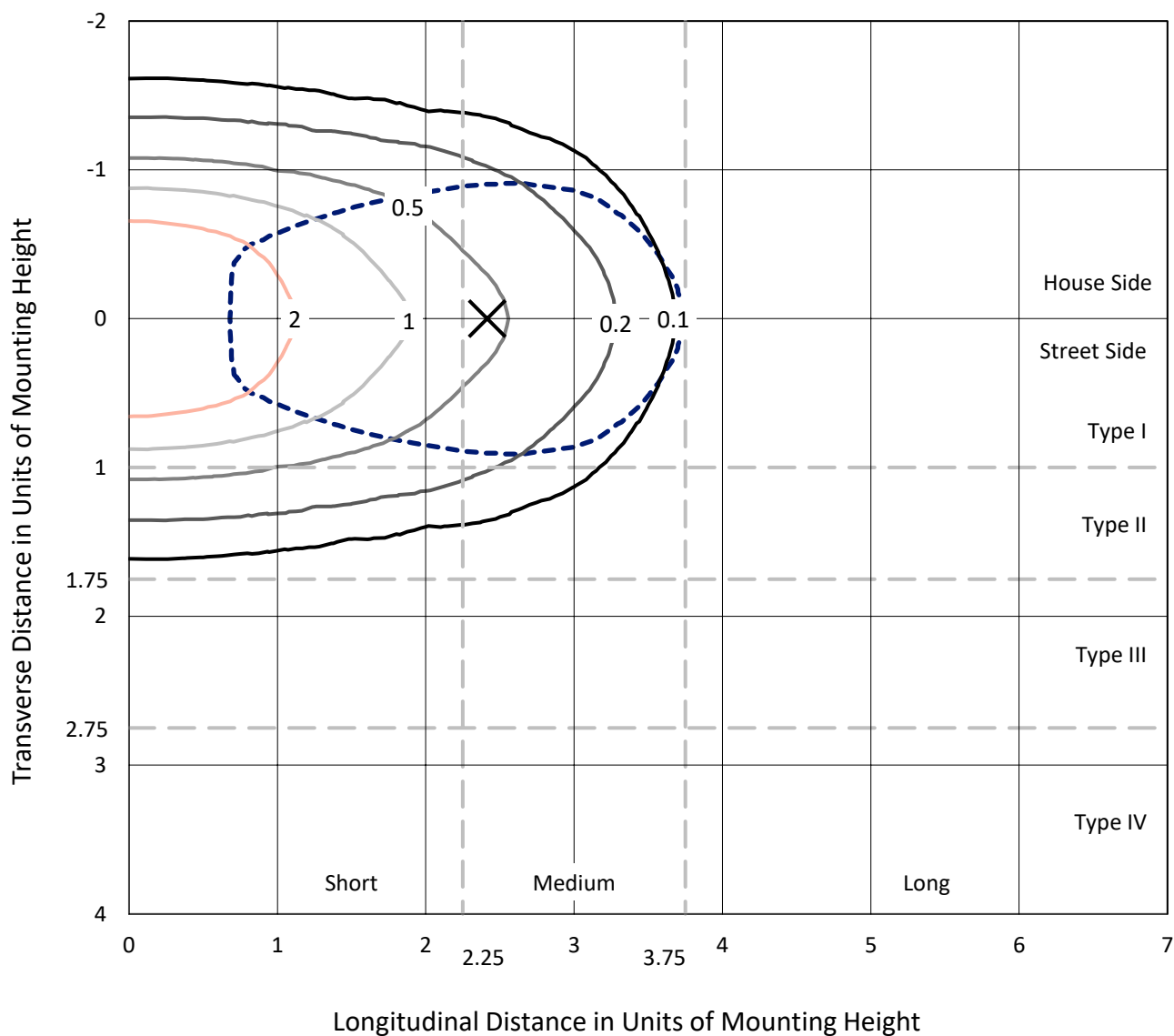
Lumens per Lamp: N/A
Luminaire Lumens: 3882.8 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 26.5
Input Voltage (V): 120
Input Current (Ain): 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

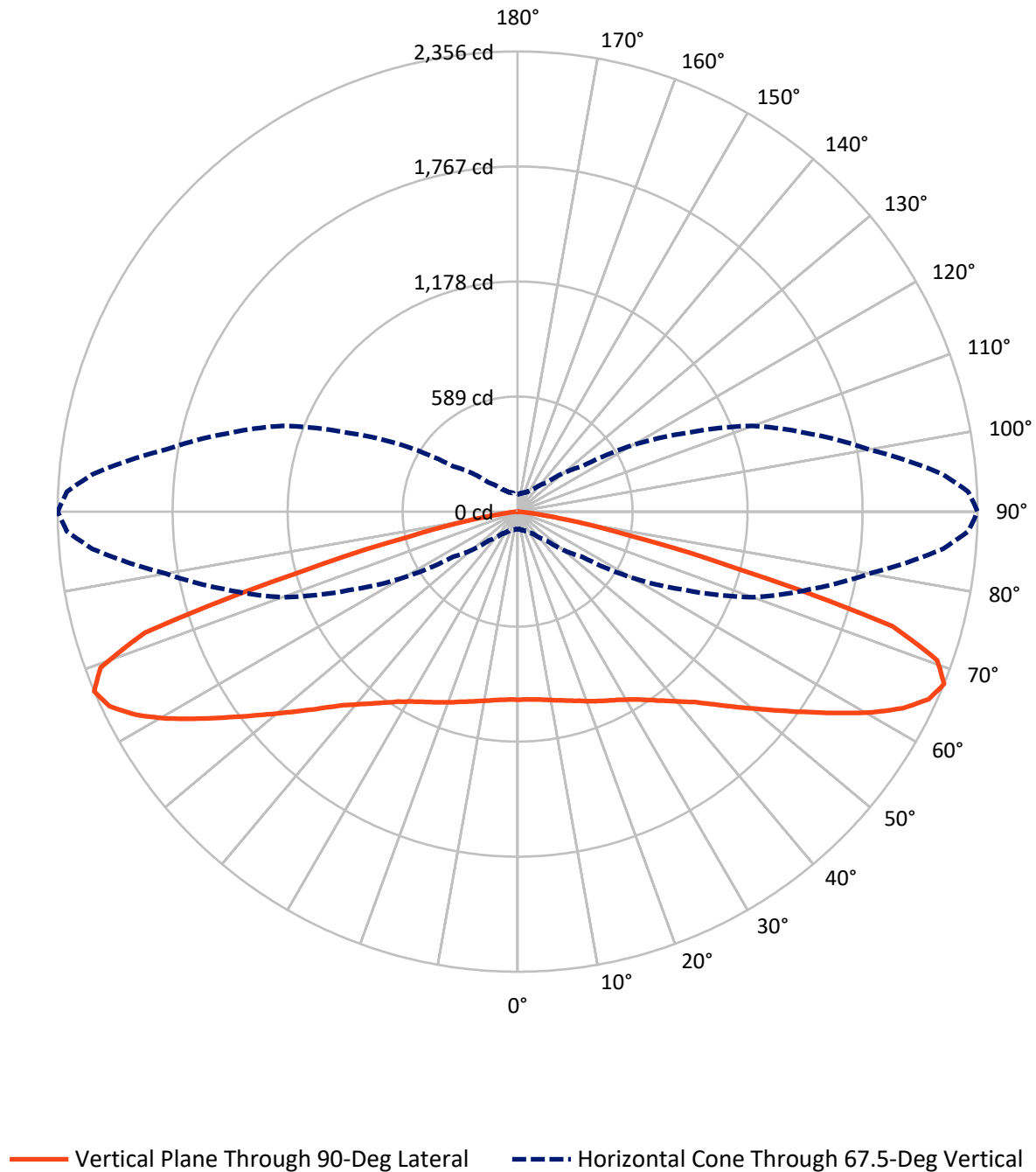
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



REPORT NUMBER: P1212031

CATALOG NUMBER: GKO-PB2A-830-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1941.4	0.0	1941.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1941.4	0.0	1941.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	3882.8	0.0	3882.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	2.4
10°-20°	278.4	7.2
20°-30°	463.0	11.9
30°-40°	615.1	15.8
40°-50°	693.4	17.9
50°-60°	713.1	18.4
60°-70°	673.9	17.4
70°-80°	329.9	8.5
80°-90°	23.6	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°	3882.8	100.0
0°-180°	3882.8	100.0

Coefficient of Utilization



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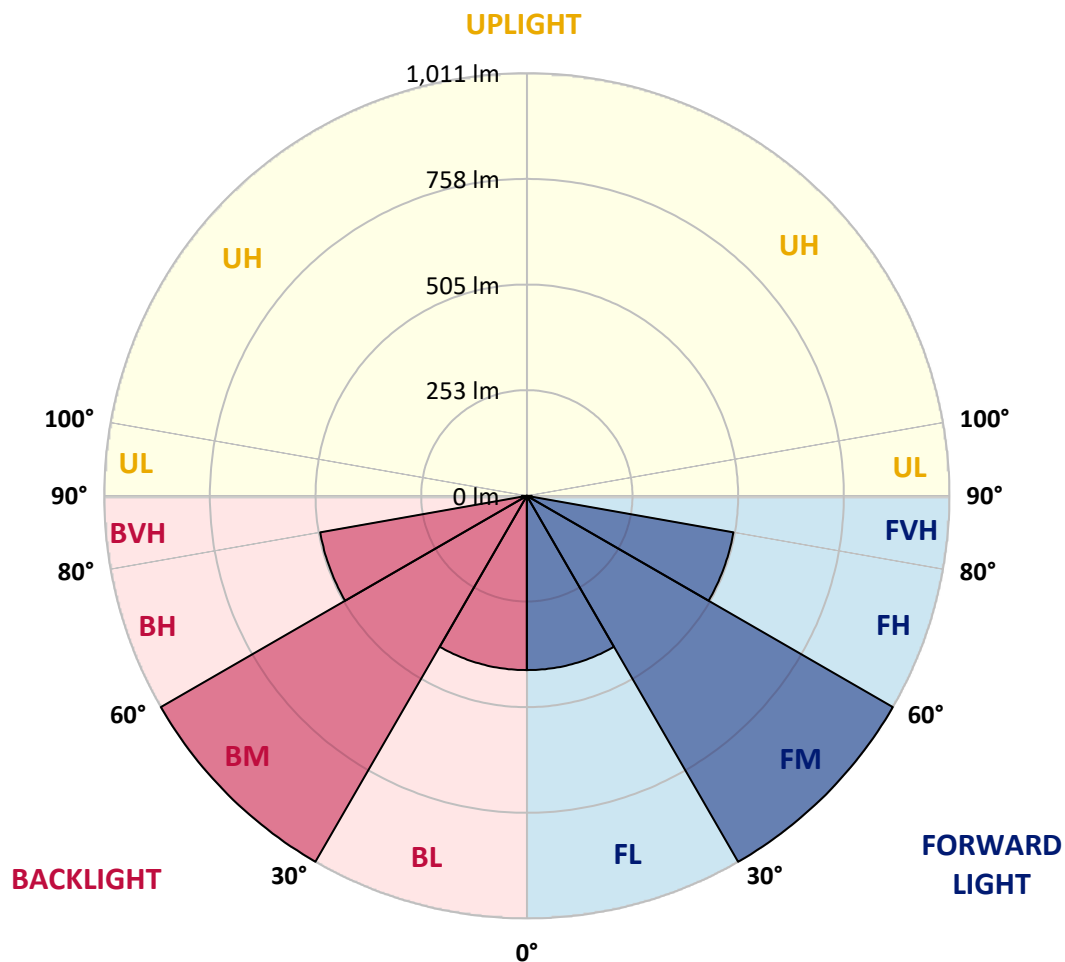
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	416.9	10.7			
FM	(30°-60°)	1010.8	26.0			
FH	(60°-80°)	501.9	12.9			G0/660
FVH	(80°-90°)	11.8	0.3			G1/100
BL	(0°-30°)	416.9	10.7	B1/500		
BM	(30°-60°)	1010.8	26.0	B2/2500		
BH	(60°-80°)	501.9	12.9	B2/1000		G2/1000
BVH	(80°-90°)	11.8	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°	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5
2.5°	964.2	965.6	962.8	962.8	964.2	964.9	964.9	965.6	964.2	964.2	963.5
5°	964.2	964.9	963.5	963.5	964.9	967.1	966.3	967.8	967.8	967.1	967.1
7.5°	963.5	964.9	963.5	964.2	966.3	970.6	970.6	970.6	972.1	973.5	973.5
10°	962.8	964.2	964.9	965.6	968.5	974.9	976.4	977.1	979.2	981.4	981.4
12.5°	959.2	960.6	962.8	965.6	970.6	979.2	982.1	984.2	987.8	990.0	991.4
15°	954.2	954.9	959.9	965.6	973.5	984.2	990.0	993.5	998.6	1001.4	1003.6
17.5°	947.0	947.7	955.6	964.2	975.6	990.7	1000.0	1005.7	1010.7	1015.0	1017.9
20°	937.7	939.9	949.2	962.8	979.2	997.1	1010.7	1020.7	1025.8	1030.1	1034.3
22.5°	926.3	928.4	939.9	959.2	982.8	1005.7	1023.6	1036.5	1042.9	1048.7	1053.7
25°	909.1	911.9	925.5	950.6	984.2	1015.0	1037.9	1054.4	1060.1	1067.3	1071.6
27.5°	882.6	884.7	901.2	933.4	979.9	1025.0	1054.4	1073.7	1080.2	1088.0	1092.3
30°	841.1	845.4	865.4	905.5	969.2	1032.9	1073.7	1093.0	1100.9	1108.8	1114.5
32.5°	787.4	793.8	816.0	867.6	948.4	1035.8	1094.5	1116.7	1126.7	1135.3	1142.4
35°	720.8	727.3	753.7	818.9	915.5	1030.1	1115.2	1143.9	1156.0	1167.5	1176.1
37.5°	644.9	650.7	682.9	757.3	868.3	1012.2	1131.7	1173.9	1190.4	1205.4	1216.9
40°	568.4	574.8	609.9	689.3	811.0	977.8	1138.9	1206.9	1227.6	1246.9	1261.3
42.5°	485.3	493.2	532.6	617.0	744.4	930.6	1133.1	1239.1	1264.8	1291.3	1312.8
45°	411.6	413.0	456.0	537.6	671.4	869.7	1113.1	1269.8	1304.9	1342.1	1372.9
47.5°	340.7	343.6	380.8	461.7	595.6	801.0	1076.6	1294.2	1350.0	1398.0	1443.1
50°	277.7	281.3	315.0	387.3	519.7	725.8	1027.2	1308.5	1388.7	1453.8	1516.8
52.5°	226.2	230.5	258.4	322.1	443.1	647.1	966.3	1310.6	1423.7	1509.6	1593.4
55°	188.3	191.1	212.6	263.4	369.4	565.5	896.9	1299.9	1446.7	1559.8	1671.4
57.5°	158.9	161.8	176.8	216.9	302.8	481.7	812.4	1274.9	1458.8	1603.4	1750.2
60°	138.2	140.3	151.0	179.7	249.1	403.0	721.5	1230.5	1455.2	1630.6	1815.3
62.5°	123.1	123.8	133.1	153.2	205.4	328.6	619.2	1163.9	1425.9	1634.2	1859.7
65°	109.5	110.2	116.0	130.3	168.9	264.1	512.5	1072.3	1370.1	1609.1	1866.1
67.5°	88.8	90.2	98.8	109.5	138.9	209.0	403.7	952.0	1282.7	1544.0	1829.6
70°	70.9	71.6	80.2	92.3	113.1	164.6	309.9	790.3	1146.0	1438.1	1735.1
72.5°	53.0	54.4	62.3	74.4	92.3	127.4	224.0	597.7	916.2	1212.6	1511.1
75°	42.2	42.9	45.8	57.3	71.6	96.6	151.0	362.2	551.9	750.2	926.3
77.5°	35.8	36.5	36.5	44.4	53.0	65.1	80.2	143.9	233.4	332.1	440.2
80°	29.3	30.8	27.9	32.9	37.9	37.9	37.2	68.7	110.2	156.0	204.7
82.5°	21.5	22.9	21.5	22.9	22.9	20.8	19.3	25.8	35.1	48.0	52.3
85°	15.0	15.7	17.2	15.7	15.0	12.2	9.3	7.2	4.3	5.0	7.2
87.5°	10.0	12.2	14.3	13.6	11.5	9.3	6.4	4.3	2.1	2.9	2.9
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°	963.5	963.5	963.5
2.5°	964.2	963.5	962.8
5°	967.8	967.1	966.3
7.5°	972.8	972.8	972.8
10°	980.7	982.1	982.1
12.5°	990.7	992.1	992.1
15°	1002.9	1003.6	1005.0
17.5°	1017.9	1018.6	1018.6
20°	1035.8	1035.1	1036.5
22.5°	1053.7	1053.7	1053.7
25°	1072.3	1072.3	1072.3
27.5°	1093.8	1093.8	1092.3
30°	1117.4	1117.4	1117.4
32.5°	1146.0	1146.7	1147.4
35°	1182.5	1184.0	1186.1
37.5°	1224.0	1227.6	1229.8
40°	1273.4	1274.9	1278.4
42.5°	1328.5	1332.8	1333.6
45°	1397.3	1404.4	1407.3
47.5°	1478.1	1488.2	1493.2
50°	1568.3	1579.8	1587.0
52.5°	1666.4	1685.0	1693.6
55°	1770.9	1803.1	1812.4
57.5°	1889.0	1932.7	1945.6
60°	2005.0	2066.5	2087.3
62.5°	2103.8	2190.4	2216.1
65°	2173.2	2277.7	2315.6
67.5°	2187.5	2311.4	2356.4
70°	2101.6	2228.3	2280.6
72.5°	1827.5	1942.0	2007.1
75°	1079.4	1161.8	1141.7
77.5°	541.9	565.5	569.1
80°	237.6	252.0	257.7
82.5°	58.7	60.1	68.0
85°	7.9	9.3	8.6
87.5°	2.9	2.9	3.6
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: SP3-2511-595-4

Test Date: 11/12/2025

Luminaire Tested: GKO-PB1C-830-U-T4W

Data in this report applies to families of products including GKO-PB1C-830*

Test Information

Test Method: LM-79-2019
 Report Number: SP3-2511-595-4
 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-830-U-T4W**
 Description: Gekko Wedge Wall Pack Fixture 1 SQ w/ T4W distribution

Spectral Parameters

CCT (K): 3087
 CIE u' : 0.2477
 CIE v' : 0.5192
 Duv: -0.0003
 CIE x: 0.4305
 CIE y: 0.4010
 CIE z: 0.1685
 Peak Wavelength (nm): 601
 Dominant Wavelength (nm): 582
 Purity: 49.5752
 R_f: 84.7
 R_g: 94.9

CRI (Ra): 82.7
 R1: 81.5
 R2: 92.1
 R3: 95.2
 R4: 80.4
 R5: 81.9
 R6: 90.5
 R7: 82.0
 R8: 58.3
 R9: 5.8
 R10: 82.0
 R11: 80.1
 R12: 71.1
 R13: 84.2
 R14: 98.1
 R15: 73.7



Test Conditions

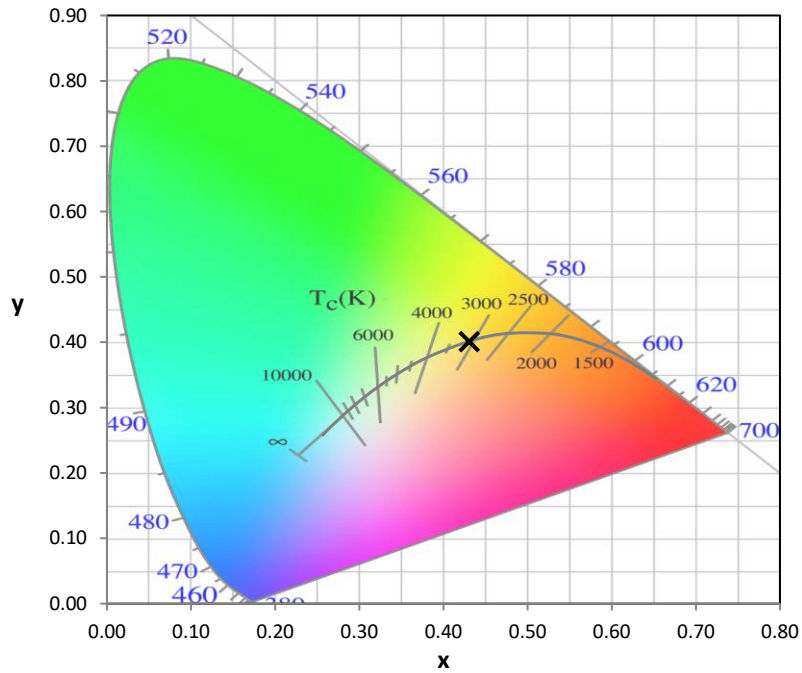
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.0

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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 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength



Photopic Lumens: NR

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	253	NR	620	915	NR	750	27	NR	880	1	NR
365	0	NR	495	293	NR	625	864	NR	755	23	NR	885	1	NR
370	0	NR	500	340	NR	630	809	NR	760	19	NR	890	0	NR
375	0	NR	505	384	NR	635	748	NR	765	16	NR	895	0	NR
380	0	NR	510	420	NR	640	684	NR	770	14	NR	900	0	NR
385	0	NR	515	450	NR	645	619	NR	775	12	NR	905	0	NR
390	0	NR	520	474	NR	650	556	NR	780	10	NR	910	0	NR
395	0	NR	525	495	NR	655	495	NR	785	9	NR	915	0	NR
400	2	NR	530	511	NR	660	437	NR	790	7	NR	920	0	NR
405	3	NR	535	531	NR	665	385	NR	795	6	NR	925	0	NR
410	6	NR	540	551	NR	670	336	NR	800	5	NR	930	0	NR
415	10	NR	545	578	NR	675	293	NR	805	5	NR	935	0	NR
420	19	NR	550	609	NR	680	253	NR	810	4	NR	940	0	NR
425	33	NR	555	642	NR	685	219	NR	815	3	NR	945	0	NR
430	58	NR	560	683	NR	690	187	NR	820	3	NR	950	0	NR
435	101	NR	565	730	NR	695	161	NR	825	2	NR	955	0	NR
440	176	NR	570	776	NR	700	137	NR	830	2	NR	960	0	NR
445	329	NR	575	827	NR	705	117	NR	835	2	NR	965	0	NR
450	565	NR	580	876	NR	710	100	NR	840	2	NR	970	0	NR
455	599	NR	585	919	NR	715	84	NR	845	1	NR	975	0	NR
460	416	NR	590	958	NR	720	72	NR	850	1	NR	980	0	NR
465	350	NR	595	985	NR	725	61	NR	855	1	NR	985	0	NR
470	302	NR	600	998	NR	730	52	NR	860	1	NR	990	0	NR
475	229	NR	605	998	NR	735	44	NR	865	1	NR	995	0	NR
480	212	NR	610	982	NR	740	37	NR	870	1	NR	1000	0	NR
485	228	NR	615	955	NR	745	32	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



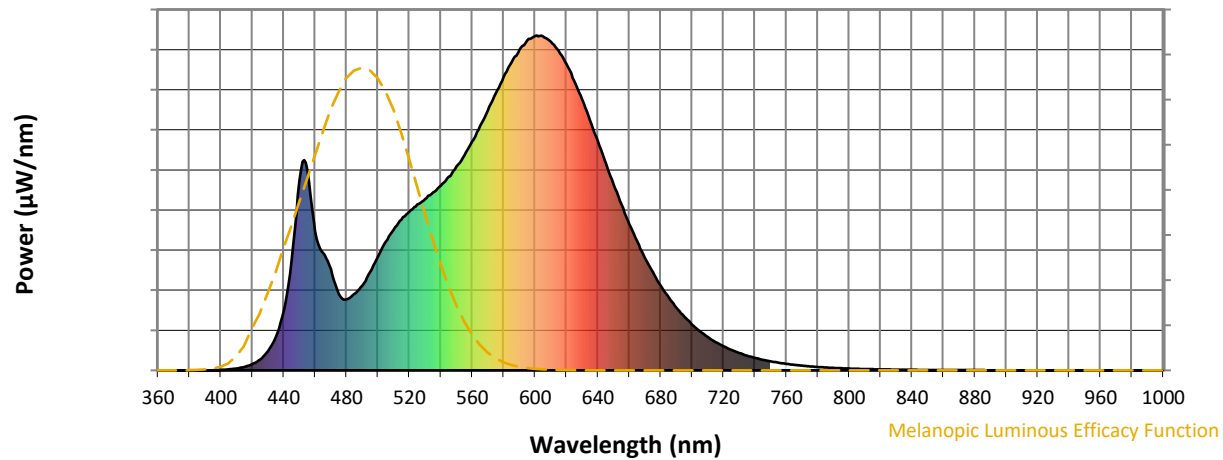
Scotopic Lumens: NR

S/P: 1.4

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	253	NR	620	915	NR	750	27	NR	880	1	NR
365	0	NR	495	293	NR	625	864	NR	755	23	NR	885	1	NR
370	0	NR	500	340	NR	630	809	NR	760	19	NR	890	0	NR
375	0	NR	505	384	NR	635	748	NR	765	16	NR	895	0	NR
380	0	NR	510	420	NR	640	684	NR	770	14	NR	900	0	NR
385	0	NR	515	450	NR	645	619	NR	775	12	NR	905	0	NR
390	0	NR	520	474	NR	650	556	NR	780	10	NR	910	0	NR
395	0	NR	525	495	NR	655	495	NR	785	9	NR	915	0	NR
400	2	NR	530	511	NR	660	437	NR	790	7	NR	920	0	NR
405	3	NR	535	531	NR	665	385	NR	795	6	NR	925	0	NR
410	6	NR	540	551	NR	670	336	NR	800	5	NR	930	0	NR
415	10	NR	545	578	NR	675	293	NR	805	5	NR	935	0	NR
420	19	NR	550	609	NR	680	253	NR	810	4	NR	940	0	NR
425	33	NR	555	642	NR	685	219	NR	815	3	NR	945	0	NR
430	58	NR	560	683	NR	690	187	NR	820	3	NR	950	0	NR
435	101	NR	565	730	NR	695	161	NR	825	2	NR	955	0	NR
440	176	NR	570	776	NR	700	137	NR	830	2	NR	960	0	NR
445	329	NR	575	827	NR	705	117	NR	835	2	NR	965	0	NR
450	565	NR	580	876	NR	710	100	NR	840	2	NR	970	0	NR
455	599	NR	585	919	NR	715	84	NR	845	1	NR	975	0	NR
460	416	NR	590	958	NR	720	72	NR	850	1	NR	980	0	NR
465	350	NR	595	985	NR	725	61	NR	855	1	NR	985	0	NR
470	302	NR	600	998	NR	730	52	NR	860	1	NR	990	0	NR
475	229	NR	605	998	NR	735	44	NR	865	1	NR	995	0	NR
480	212	NR	610	982	NR	740	37	NR	870	1	NR	1000	0	NR
485	228	NR	615	955	NR	745	32	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.74

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	253	NR	620	915	NR	750	27	NR	880	1	NR
365	0	NR	495	293	NR	625	864	NR	755	23	NR	885	1	NR
370	0	NR	500	340	NR	630	809	NR	760	19	NR	890	0	NR
375	0	NR	505	384	NR	635	748	NR	765	16	NR	895	0	NR
380	0	NR	510	420	NR	640	684	NR	770	14	NR	900	0	NR
385	0	NR	515	450	NR	645	619	NR	775	12	NR	905	0	NR
390	0	NR	520	474	NR	650	556	NR	780	10	NR	910	0	NR
395	0	NR	525	495	NR	655	495	NR	785	9	NR	915	0	NR
400	2	NR	530	511	NR	660	437	NR	790	7	NR	920	0	NR
405	3	NR	535	531	NR	665	385	NR	795	6	NR	925	0	NR
410	6	NR	540	551	NR	670	336	NR	800	5	NR	930	0	NR
415	10	NR	545	578	NR	675	293	NR	805	5	NR	935	0	NR
420	19	NR	550	609	NR	680	253	NR	810	4	NR	940	0	NR
425	33	NR	555	642	NR	685	219	NR	815	3	NR	945	0	NR
430	58	NR	560	683	NR	690	187	NR	820	3	NR	950	0	NR
435	101	NR	565	730	NR	695	161	NR	825	2	NR	955	0	NR
440	176	NR	570	776	NR	700	137	NR	830	2	NR	960	0	NR
445	329	NR	575	827	NR	705	117	NR	835	2	NR	965	0	NR
450	565	NR	580	876	NR	710	100	NR	840	2	NR	970	0	NR
455	599	NR	585	919	NR	715	84	NR	845	1	NR	975	0	NR
460	416	NR	590	958	NR	720	72	NR	850	1	NR	980	0	NR
465	350	NR	595	985	NR	725	61	NR	855	1	NR	985	0	NR
470	302	NR	600	998	NR	730	52	NR	860	1	NR	990	0	NR
475	229	NR	605	998	NR	735	44	NR	865	1	NR	995	0	NR
480	212	NR	610	982	NR	740	37	NR	870	1	NR	1000	0	NR
485	228	NR	615	955	NR	745	32	NR	875	1	NR			

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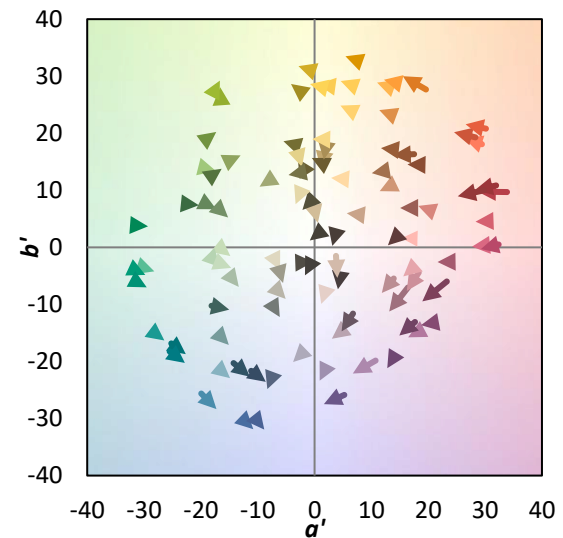
TM-30-18

Summary

$R_f = 84.7$
 $R_g = 94.9$
 $CIE\ R_a = 82.7$
 $R_9 = 5.8$

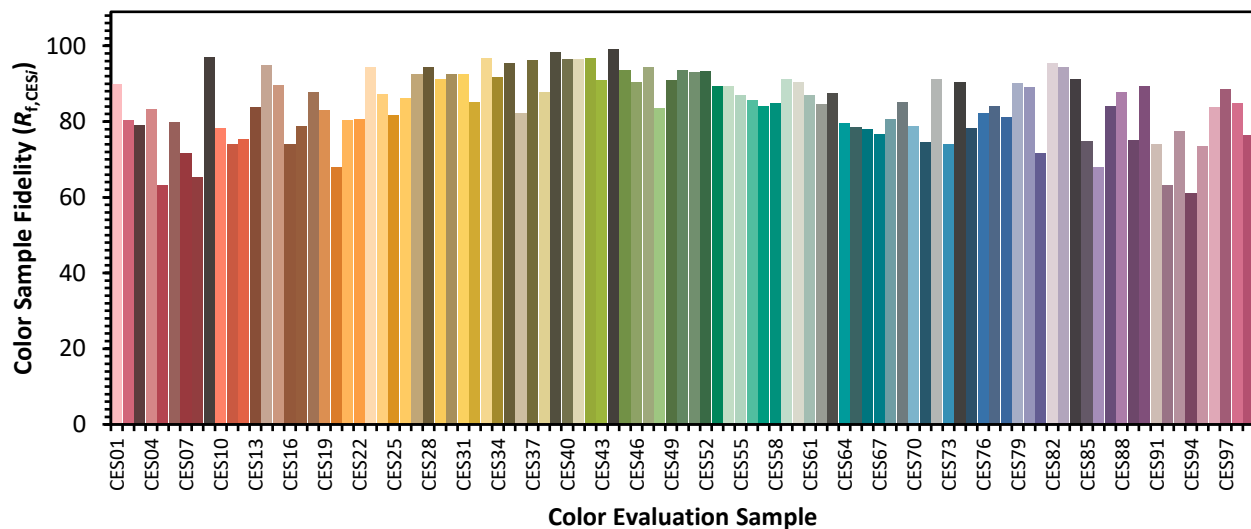


Color Vector Graphics

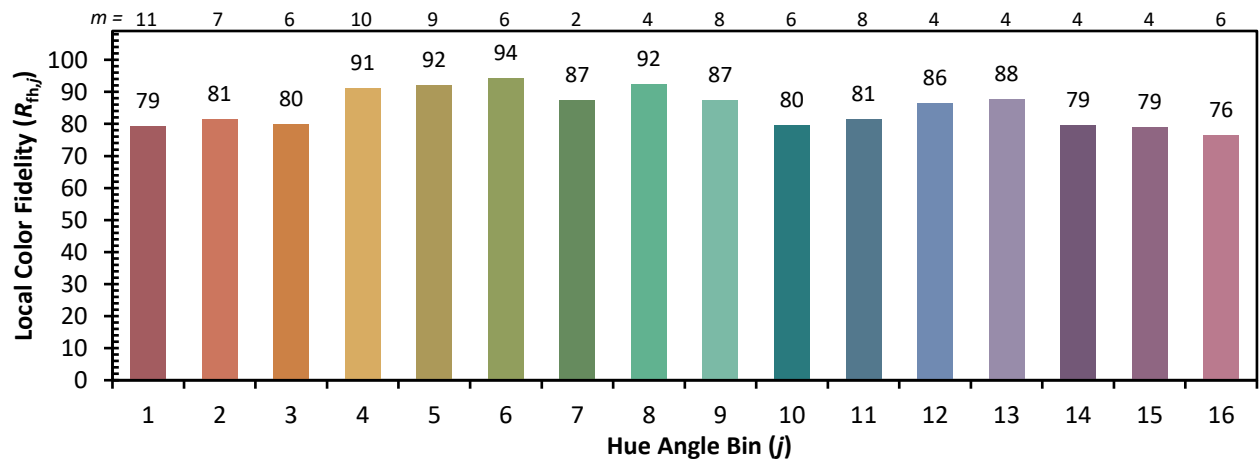


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 86	CES51 = 93	CES76 = 82
CES02 = 63	CES27 = 93	CES52 = 93	CES77 = 84
CES03 = 31	CES28 = 94	CES53 = 89	CES78 = 81
CES04 = 70	CES29 = 91	CES54 = 89	CES79 = 90
CES05 = 49	CES30 = 93	CES55 = 87	CES80 = 89
CES06 = 51	CES31 = 93	CES56 = 86	CES81 = 72
CES07 = 42	CES32 = 85	CES57 = 84	CES82 = 95
CES08 = 41	CES33 = 97	CES58 = 85	CES83 = 94
CES09 = 29	CES34 = 92	CES59 = 91	CES84 = 91
CES10 = 76	CES35 = 95	CES60 = 90	CES85 = 75
CES11 = 59	CES36 = 82	CES61 = 87	CES86 = 68
CES12 = 65	CES37 = 96	CES62 = 85	CES87 = 84
CES13 = 43	CES38 = 88	CES63 = 87	CES88 = 88
CES14 = 74	CES39 = 98	CES64 = 80	CES89 = 75
CES15 = 72	CES40 = 96	CES65 = 79	CES90 = 89
CES16 = 47	CES41 = 96	CES66 = 78	CES91 = 74
CES17 = 50	CES42 = 97	CES67 = 77	CES92 = 63
CES18 = 56	CES43 = 91	CES68 = 81	CES93 = 77
CES19 = 72	CES44 = 99	CES69 = 85	CES94 = 61
CES20 = 66	CES45 = 93	CES70 = 79	CES95 = 74
CES21 = 87	CES46 = 90	CES71 = 75	CES96 = 84
CES22 = 79	CES47 = 94	CES72 = 91	CES97 = 89
CES23 = 92	CES48 = 84	CES73 = 74	CES98 = 85
CES24 = 91	CES49 = 91	CES74 = 90	CES99 = 77
CES25 = 72	CES50 = 93	CES75 = 78	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)