

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: P977143

Luminaire Tested: **GKO-PB1F-730-U-T1**

Issue Date: 03/19/2025

Test Information

Test Method: LM-79-08
Report Number: P977143
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/19/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GKO-PB1F-730-U-T1
Description: GEKKO WALL PACK 6500LM PACKAGE 70CRI 3000K FIXTURE w/ TYPE I DISTRIBUTION OPTIC
Light Source: (10) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6584.8 lumens
Efficiency: N/A
Efficacy: 120.8 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

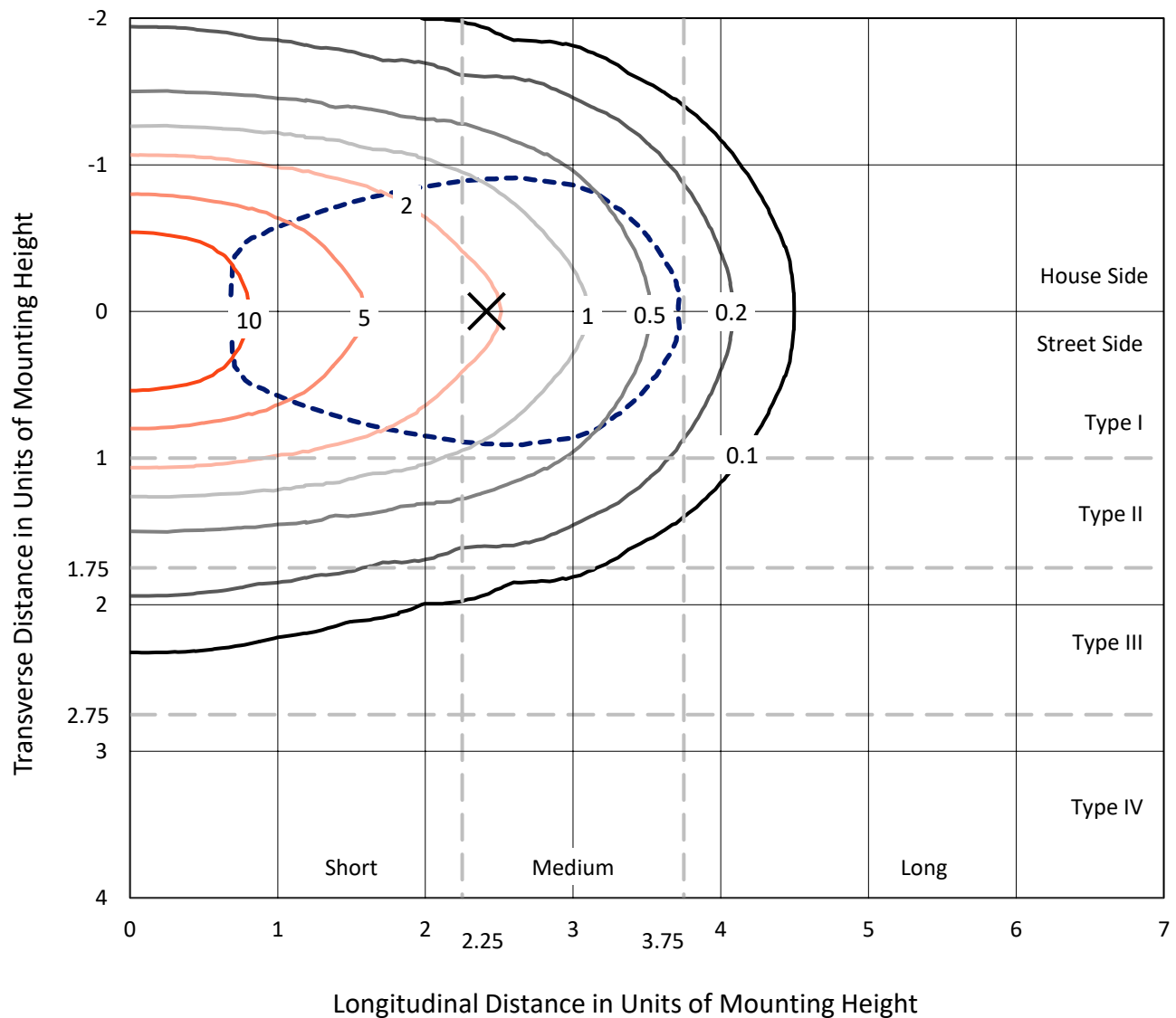
Input Watts (W): 54.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 5.7%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

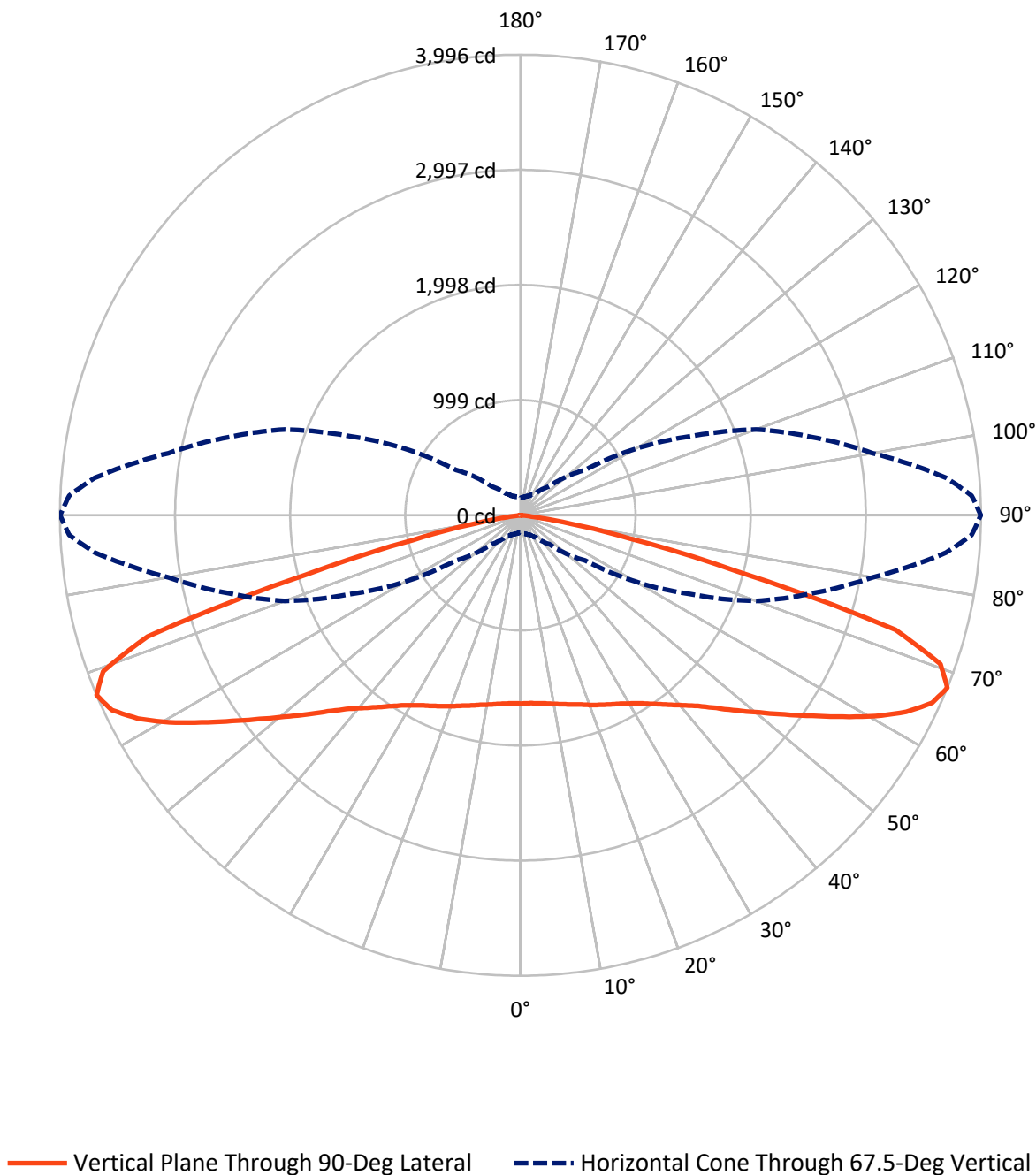


Based on 10 foot mounting height. Maximum calculated value = 16.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3292.4	0.0	3292.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3292.4	0.0	3292.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	6584.8	0.0	6584.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	2.4
10°-20°	472.2	7.2
20°-30°	785.2	11.9
30°-40°	1043.1	15.8
40°-50°	1176.0	17.9
50°-60°	1209.3	18.4
60°-70°	1142.8	17.4
70°-80°	559.4	8.5
80°-90°	40.0	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°	6584.8	100.0
0°-180°	6584.8	100.0

Coefficient of Utilization



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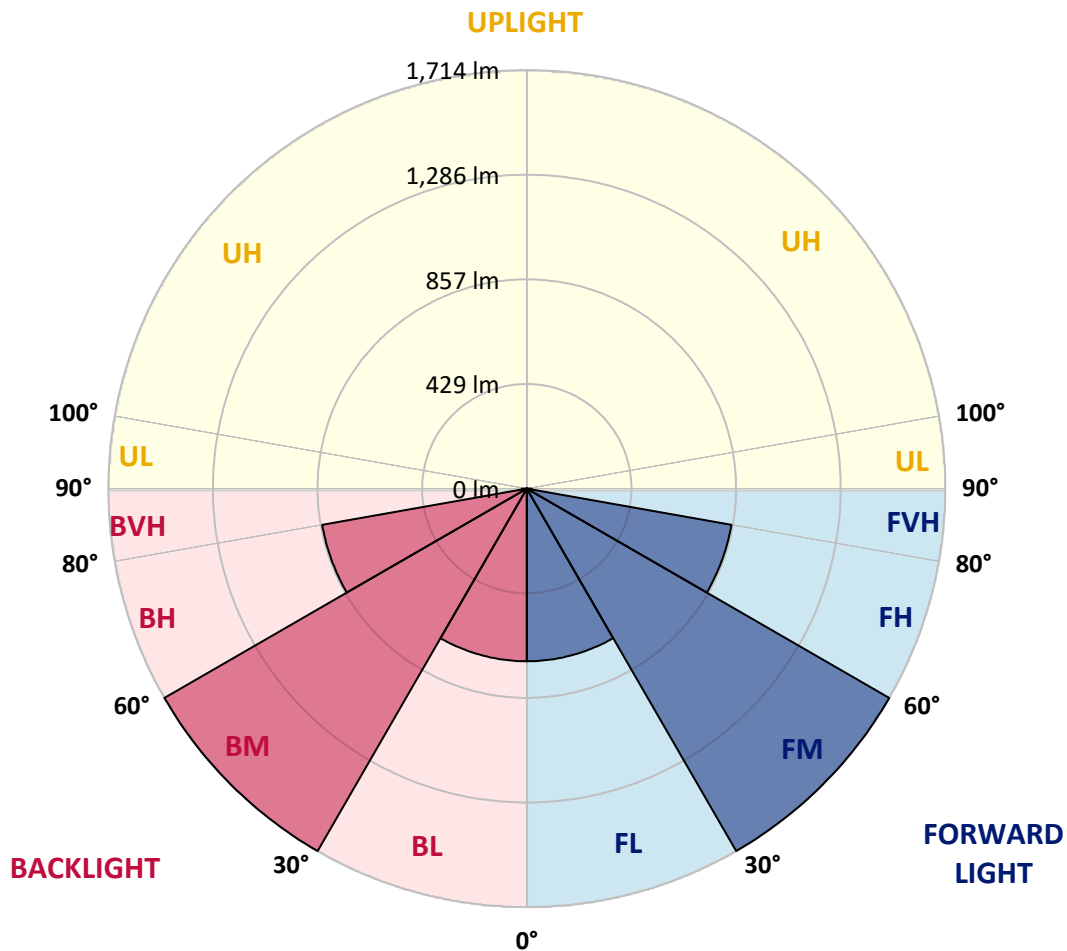
CATALOG NUMBER: GKO-PB1F-730-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	707.1	10.7			
FM	(30°-60°)	1714.2	26.0			
FH	(60°-80°)	851.1	12.9			G1/1800
FVH	(80°-90°)	20.0	0.3			G1/100
BL	(0°-30°)	707.1	10.7	B2/1000		
BM	(30°-60°)	1714.2	26.0	B2/2500		
BH	(60°-80°)	851.1	12.9	B2/1000		G2/1000
BVH	(80°-90°)	20.0	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°	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0
2.5°	1635.2	1637.6	1632.8	1632.8	1635.2	1636.4	1636.4	1637.6	1635.2	1635.2	1634.0
5°	1635.2	1636.4	1634.0	1634.0	1636.4	1640.0	1638.8	1641.2	1641.2	1640.0	1640.0
7.5°	1634.0	1636.4	1634.0	1635.2	1638.8	1646.1	1646.1	1646.1	1648.5	1651.0	1651.0
10°	1632.8	1635.2	1636.4	1637.6	1642.5	1653.4	1655.8	1657.0	1660.7	1664.3	1664.3
12.5°	1626.7	1629.1	1632.8	1637.6	1646.1	1660.7	1665.5	1669.2	1675.2	1678.9	1681.3
15°	1618.2	1619.4	1627.9	1637.6	1651.0	1669.2	1678.9	1685.0	1693.4	1698.3	1701.9
17.5°	1606.0	1607.3	1620.6	1635.2	1654.6	1680.1	1695.9	1705.6	1714.1	1721.4	1726.2
20°	1590.3	1593.9	1609.7	1632.8	1660.7	1691.0	1714.1	1731.1	1739.6	1746.9	1754.1
22.5°	1570.8	1574.5	1593.9	1626.7	1666.7	1705.6	1735.9	1757.8	1768.7	1778.4	1786.9
25°	1541.7	1546.6	1569.6	1612.1	1669.2	1721.4	1760.2	1788.1	1797.8	1810.0	1817.3
27.5°	1496.8	1500.4	1528.4	1583.0	1661.9	1738.4	1788.1	1820.9	1831.8	1845.2	1852.5
30°	1426.4	1433.7	1467.7	1535.6	1643.7	1751.7	1820.9	1853.7	1867.0	1880.4	1890.1
32.5°	1335.3	1346.3	1383.9	1471.3	1608.5	1756.6	1856.1	1893.7	1910.7	1925.3	1937.5
35°	1222.4	1233.4	1278.3	1388.7	1552.6	1746.9	1891.3	1939.9	1960.5	1979.9	1994.5
37.5°	1093.8	1103.5	1158.1	1284.3	1472.5	1716.5	1919.2	1990.9	2018.8	2044.3	2063.7
40°	963.9	974.8	1034.3	1169.0	1375.4	1658.2	1931.4	2046.7	2081.9	2114.7	2139.0
42.5°	823.1	836.4	903.2	1046.4	1262.5	1578.1	1921.7	2101.3	2145.0	2190.0	2226.4
45°	698.0	700.4	773.3	911.7	1138.7	1474.9	1887.7	2153.5	2213.0	2276.1	2328.3
47.5°	577.8	582.7	645.8	783.0	1010.0	1358.4	1825.8	2194.8	2289.5	2370.8	2447.3
50°	471.0	477.1	534.1	656.7	881.3	1230.9	1742.0	2219.1	2355.0	2465.5	2572.3
52.5°	383.6	390.9	438.2	546.3	751.4	1097.4	1638.8	2222.7	2414.5	2560.2	2702.2
55°	319.3	324.1	360.5	446.7	626.4	959.0	1521.1	2204.5	2453.4	2645.2	2834.6
57.5°	269.5	274.4	299.8	367.8	513.5	817.0	1377.8	2162.0	2474.0	2719.2	2968.1
60°	234.3	237.9	256.1	304.7	422.5	683.4	1223.7	2086.8	2467.9	2765.4	3078.6
62.5°	208.8	210.0	225.8	259.8	348.4	557.2	1050.1	1973.9	2418.2	2771.4	3153.8
65°	185.7	186.9	196.7	220.9	286.5	447.9	869.2	1818.5	2323.5	2728.9	3164.7
67.5°	150.5	153.0	167.5	185.7	235.5	354.5	684.7	1614.5	2175.4	2618.5	3102.8
70°	120.2	121.4	136.0	156.6	191.8	279.2	525.6	1340.2	1943.5	2438.8	2942.6
72.5°	89.8	92.3	105.6	126.2	156.6	216.1	380.0	1013.6	1553.8	2056.4	2562.6
75°	71.6	72.8	77.7	97.1	121.4	163.9	256.1	614.3	935.9	1272.2	1570.8
77.5°	60.7	61.9	61.9	75.3	89.8	110.5	136.0	244.0	395.7	563.3	746.6
80°	49.8	52.2	47.3	55.8	64.3	64.3	63.1	116.5	186.9	264.6	347.2
82.5°	36.4	38.8	36.4	38.8	38.8	35.2	32.8	43.7	59.5	81.3	88.6
85°	25.5	26.7	29.1	26.7	25.5	20.6	15.8	12.1	7.3	8.5	12.1
87.5°	17.0	20.6	24.3	23.1	19.4	15.8	10.9	7.3	3.6	4.9	4.9
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°	1634.0	1634.0	1634.0
2.5°	1635.2	1634.0	1632.8
5°	1641.2	1640.0	1638.8
7.5°	1649.7	1649.7	1649.7
10°	1663.1	1665.5	1665.5
12.5°	1680.1	1682.5	1682.5
15°	1700.7	1701.9	1704.4
17.5°	1726.2	1727.4	1727.4
20°	1756.6	1755.4	1757.8
22.5°	1786.9	1786.9	1786.9
25°	1818.5	1818.5	1818.5
27.5°	1854.9	1854.9	1852.5
30°	1895.0	1895.0	1895.0
32.5°	1943.5	1944.7	1945.9
35°	2005.4	2007.9	2011.5
37.5°	2075.8	2081.9	2085.6
40°	2159.6	2162.0	2168.1
42.5°	2253.1	2260.4	2261.6
45°	2369.6	2381.8	2386.6
47.5°	2506.8	2523.8	2532.3
50°	2659.7	2679.2	2691.3
52.5°	2826.1	2857.6	2872.2
55°	3003.3	3057.9	3073.7
57.5°	3203.6	3277.6	3299.5
60°	3400.2	3504.6	3539.9
62.5°	3567.8	3714.7	3758.4
65°	3685.5	3862.8	3927.1
67.5°	3709.8	3919.8	3996.3
70°	3564.1	3779.0	3867.6
72.5°	3099.2	3293.4	3403.9
75°	1830.6	1970.2	1936.2
77.5°	919.0	959.0	965.1
80°	403.0	427.3	437.0
82.5°	99.5	102.0	115.3
85°	13.4	15.8	14.6
87.5°	4.9	4.9	6.1
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: SP2-2501-321-4

Test Date: 04/10/2025

Luminaire Tested: GKO-PB1E-730-U-T4W

Data in this report applies to families of products including GKO-PB1E-730-U-T4W

Test Information

Test Method: LM-79-2019
 Report Number: SP2-2501-321-4
 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-730-U-T4W**
 Description: Gekko Wedge Wall Pack Fixture 1 SQ w/ T4W distribution

Spectral Parameters

CCT (K): 3072
 CIE u' : 0.2482
 CIE v' : 0.5193
 Duv: -0.0004
 CIE x: 0.4313
 CIE y: 0.4010
 CIE z: 0.1677
 Peak Wavelength (nm): 593
 Dominant Wavelength (nm): 582
 Purity: 49.8225
 R_f: 74.7
 R_g: 94.2

CRI (Ra): 71.7
 R1: 68.1
 R2: 82.1
 R3: 93.4
 R4: 67.3
 R5: 67.2
 R6: 74.9
 R7: 77.5
 R8: 43.4
 R9: -33.9
 R10: 58.6
 R11: 62.0
 R12: 48.5
 R13: 70.7
 R14: 96.4
 R15: 60.2



Test Conditions

Stabilization Time: 30M
 Operation Time: 1H 30M
 Sphere Temperature (°C): 25.7

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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 3000K 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	114	NR	620	817	NR	750	22	NR	880	1	NR
365	0	NR	495	141	NR	625	756	NR	755	19	NR	885	1	NR
370	0	NR	500	189	NR	630	693	NR	760	16	NR	890	0	NR
375	0	NR	505	247	NR	635	628	NR	765	14	NR	895	0	NR
380	0	NR	510	307	NR	640	564	NR	770	12	NR	900	0	NR
385	0	NR	515	366	NR	645	504	NR	775	10	NR	905	0	NR
390	0	NR	520	415	NR	650	446	NR	780	9	NR	910	0	NR
395	2	NR	525	455	NR	655	393	NR	785	8	NR	915	0	NR
400	3	NR	530	491	NR	660	344	NR	790	7	NR	920	0	NR
405	6	NR	535	523	NR	665	300	NR	795	6	NR	925	0	NR
410	11	NR	540	556	NR	670	260	NR	800	5	NR	930	0	NR
415	21	NR	545	591	NR	675	226	NR	805	4	NR	935	0	NR
420	41	NR	550	632	NR	680	195	NR	810	4	NR	940	0	NR
425	76	NR	555	679	NR	685	167	NR	815	3	NR	945	0	NR
430	129	NR	560	732	NR	690	144	NR	820	3	NR	950	0	NR
435	205	NR	565	787	NR	695	123	NR	825	2	NR	955	0	NR
440	307	NR	570	847	NR	700	105	NR	830	2	NR	960	0	NR
445	451	NR	575	900	NR	705	90	NR	835	2	NR	965	0	NR
450	603	NR	580	944	NR	710	77	NR	840	2	NR	970	0	NR
455	544	NR	585	977	NR	715	66	NR	845	1	NR	975	0	NR
460	348	NR	590	997	NR	720	56	NR	850	1	NR	980	0	NR
465	249	NR	595	998	NR	725	48	NR	855	1	NR	985	0	NR
470	191	NR	600	986	NR	730	41	NR	860	1	NR	990	0	NR
475	133	NR	605	960	NR	735	35	NR	865	1	NR	995	0	NR
480	107	NR	610	921	NR	740	30	NR	870	1	NR	1000	0	NR
485	104	NR	615	874	NR	745	26	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.24

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	114	NR	620	817	NR	750	22	NR	880	1	NR
365	0	NR	495	141	NR	625	756	NR	755	19	NR	885	1	NR
370	0	NR	500	189	NR	630	693	NR	760	16	NR	890	0	NR
375	0	NR	505	247	NR	635	628	NR	765	14	NR	895	0	NR
380	0	NR	510	307	NR	640	564	NR	770	12	NR	900	0	NR
385	0	NR	515	366	NR	645	504	NR	775	10	NR	905	0	NR
390	0	NR	520	415	NR	650	446	NR	780	9	NR	910	0	NR
395	2	NR	525	455	NR	655	393	NR	785	8	NR	915	0	NR
400	3	NR	530	491	NR	660	344	NR	790	7	NR	920	0	NR
405	6	NR	535	523	NR	665	300	NR	795	6	NR	925	0	NR
410	11	NR	540	556	NR	670	260	NR	800	5	NR	930	0	NR
415	21	NR	545	591	NR	675	226	NR	805	4	NR	935	0	NR
420	41	NR	550	632	NR	680	195	NR	810	4	NR	940	0	NR
425	76	NR	555	679	NR	685	167	NR	815	3	NR	945	0	NR
430	129	NR	560	732	NR	690	144	NR	820	3	NR	950	0	NR
435	205	NR	565	787	NR	695	123	NR	825	2	NR	955	0	NR
440	307	NR	570	847	NR	700	105	NR	830	2	NR	960	0	NR
445	451	NR	575	900	NR	705	90	NR	835	2	NR	965	0	NR
450	603	NR	580	944	NR	710	77	NR	840	2	NR	970	0	NR
455	544	NR	585	977	NR	715	66	NR	845	1	NR	975	0	NR
460	348	NR	590	997	NR	720	56	NR	850	1	NR	980	0	NR
465	249	NR	595	998	NR	725	48	NR	855	1	NR	985	0	NR
470	191	NR	600	986	NR	730	41	NR	860	1	NR	990	0	NR
475	133	NR	605	960	NR	735	35	NR	865	1	NR	995	0	NR
480	107	NR	610	921	NR	740	30	NR	870	1	NR	1000	0	NR
485	104	NR	615	874	NR	745	26	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.3

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	114	NR	620	817	NR	750	22	NR	880	1	NR
365	0	NR	495	141	NR	625	756	NR	755	19	NR	885	1	NR
370	0	NR	500	189	NR	630	693	NR	760	16	NR	890	0	NR
375	0	NR	505	247	NR	635	628	NR	765	14	NR	895	0	NR
380	0	NR	510	307	NR	640	564	NR	770	12	NR	900	0	NR
385	0	NR	515	366	NR	645	504	NR	775	10	NR	905	0	NR
390	0	NR	520	415	NR	650	446	NR	780	9	NR	910	0	NR
395	2	NR	525	455	NR	655	393	NR	785	8	NR	915	0	NR
400	3	NR	530	491	NR	660	344	NR	790	7	NR	920	0	NR
405	6	NR	535	523	NR	665	300	NR	795	6	NR	925	0	NR
410	11	NR	540	556	NR	670	260	NR	800	5	NR	930	0	NR
415	21	NR	545	591	NR	675	226	NR	805	4	NR	935	0	NR
420	41	NR	550	632	NR	680	195	NR	810	4	NR	940	0	NR
425	76	NR	555	679	NR	685	167	NR	815	3	NR	945	0	NR
430	129	NR	560	732	NR	690	144	NR	820	3	NR	950	0	NR
435	205	NR	565	787	NR	695	123	NR	825	2	NR	955	0	NR
440	307	NR	570	847	NR	700	105	NR	830	2	NR	960	0	NR
445	451	NR	575	900	NR	705	90	NR	835	2	NR	965	0	NR
450	603	NR	580	944	NR	710	77	NR	840	2	NR	970	0	NR
455	544	NR	585	977	NR	715	66	NR	845	1	NR	975	0	NR
460	348	NR	590	997	NR	720	56	NR	850	1	NR	980	0	NR
465	249	NR	595	998	NR	725	48	NR	855	1	NR	985	0	NR
470	191	NR	600	986	NR	730	41	NR	860	1	NR	990	0	NR
475	133	NR	605	960	NR	735	35	NR	865	1	NR	995	0	NR
480	107	NR	610	921	NR	740	30	NR	870	1	NR	1000	0	NR
485	104	NR	615	874	NR	745	26	NR	875	1	NR			

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Summary

$R_f = 74.7$
 $R_g = 94.2$
 $\text{CIE } R_a = 71.7$
 $R_g = -33.9$



Color Vector Graphics

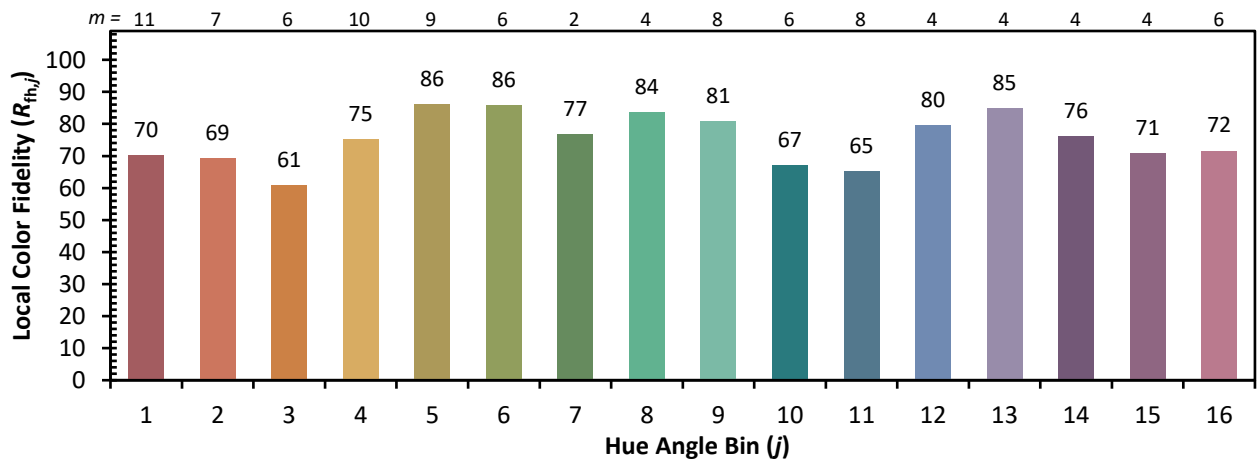


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 65	CES51 = 86	CES76 = 58
CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 76
CES03 = 31	CES28 = 84	CES53 = 77	CES78 = 62
CES04 = 71	CES29 = 68	CES54 = 85	CES79 = 85
CES05 = 49	CES30 = 83	CES55 = 84	CES80 = 84
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 = 76
CES11 = 59	CES36 = 94	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 = 65	CES90 = 79
CES16 = 47	CES41 = 93	CES66 = 60	CES91 = 80
CES17 = 50	CES42 = 86	CES67 = 58	CES92 = 57
CES18 = 56	CES43 = 78	CES68 = 66	CES93 = 74
CES19 = 73	CES44 = 99	CES69 = 75	CES94 = 50
CES20 = 66	CES45 = 85	CES70 = 60	CES95 = 67
CES21 = 87	CES46 = 81	CES71 = 57	CES96 = 77
CES22 = 79	CES47 = 86	CES72 = 85	CES97 = 83
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)