

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: P977141

Luminaire Tested: **GKO-PB1F-722-U-T1**

Issue Date: 03/19/2025



Test Information

Test Method: LM-79-08
Report Number: P977141
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/19/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GKO-PB1F-722-U-T1
Description: GEKKO WALL PACK 6500LM PACKAGE 70CRI 2200K FIXTURE w/ TYPE I DISTRIBUTION OPTIC
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5814.3 lumens
Efficiency: N/A
Efficacy: 106.7 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

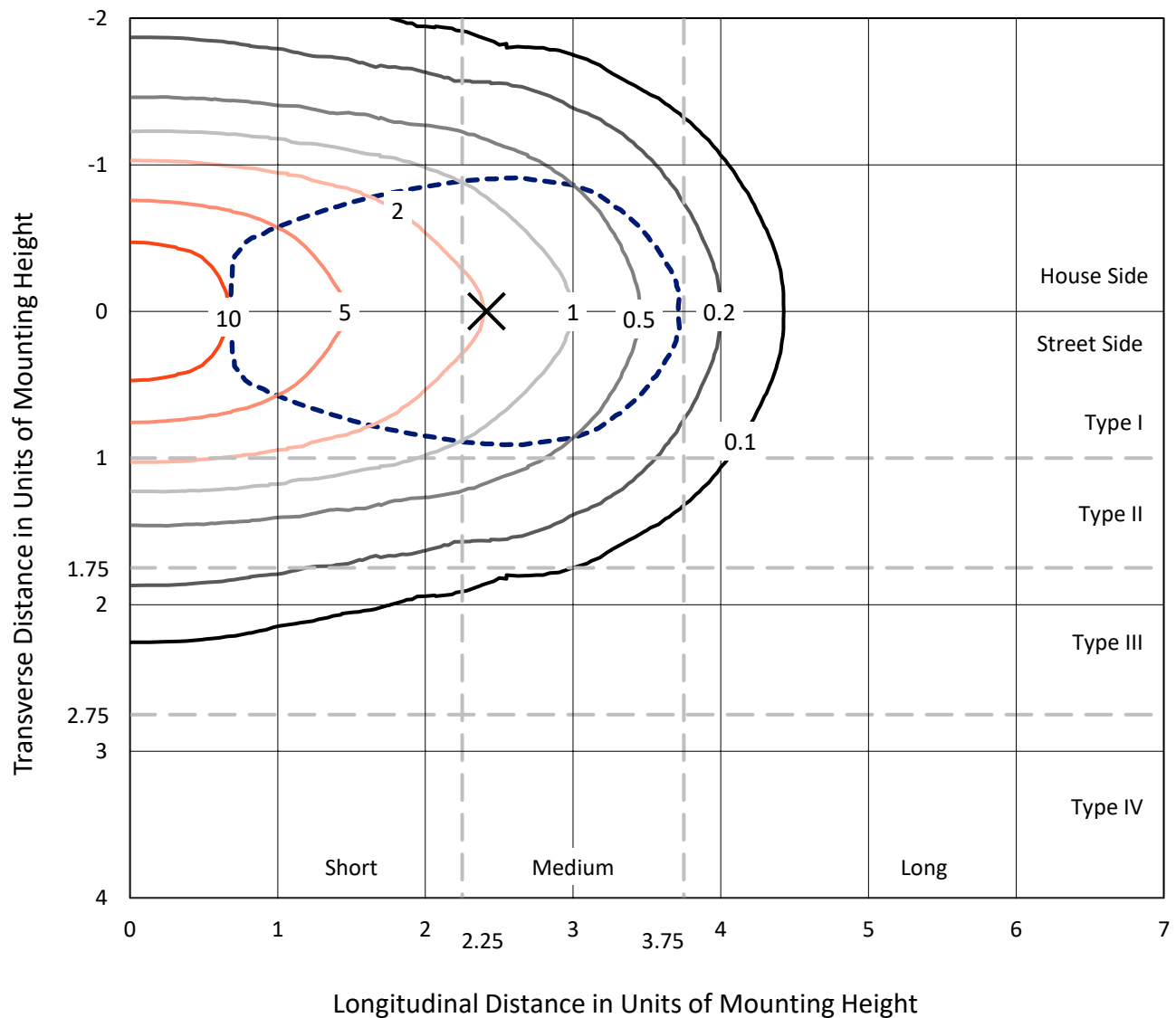
Input Watts (W): 54.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 5.7%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

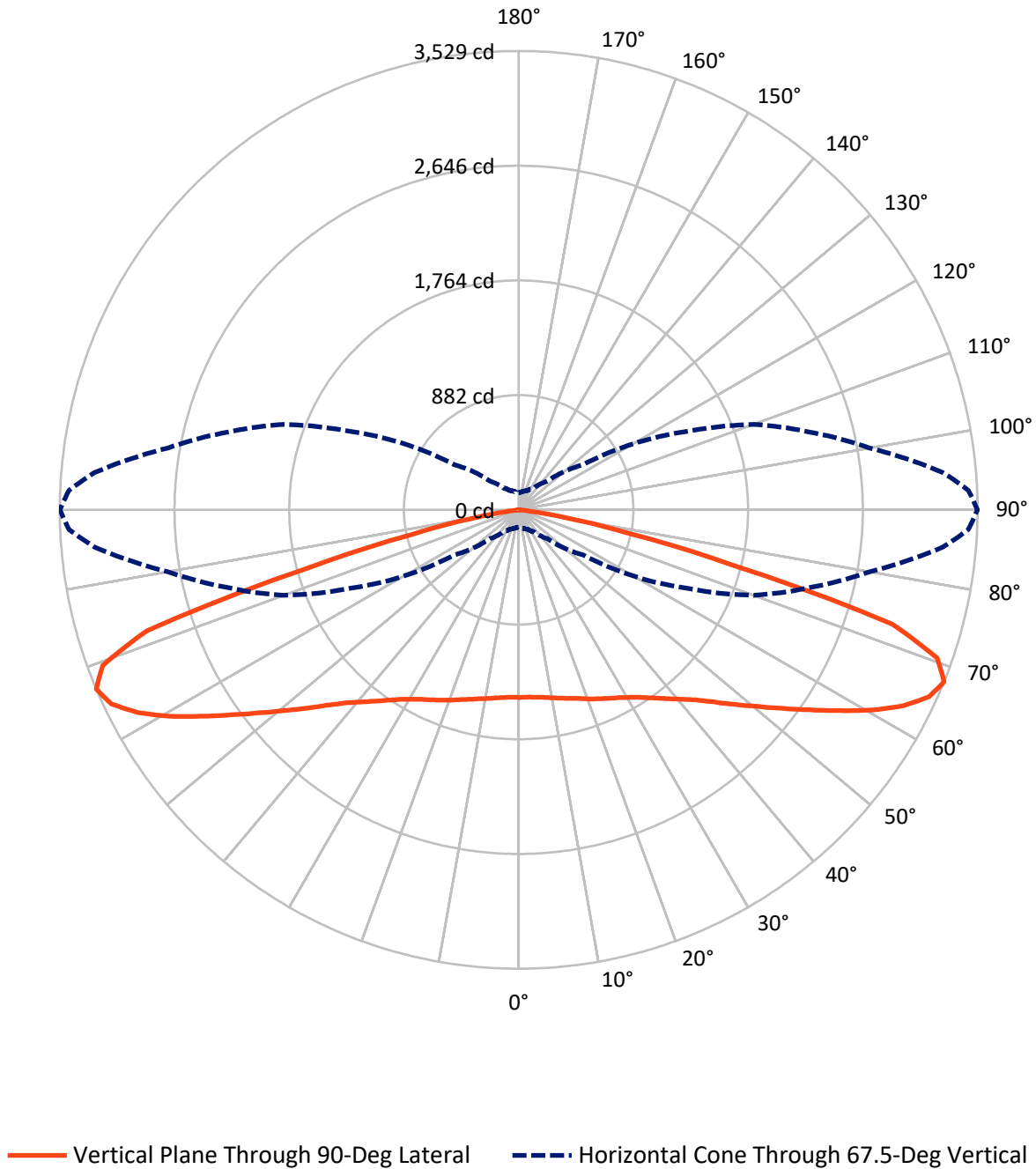
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.4 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	2907.1	0.0	2907.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2907.1	0.0	2907.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	5814.3	0.0	5814.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	2.4
10°-20°	417.0	7.2
20°-30°	693.3	11.9
30°-40°	921.1	15.8
40°-50°	1038.4	17.9
50°-60°	1067.8	18.4
60°-70°	1009.1	17.4
70°-80°	494.0	8.5
80°-90°	35.3	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°	5814.3	100.0
0°-180°	5814.3	100.0

Coefficient of Utilization



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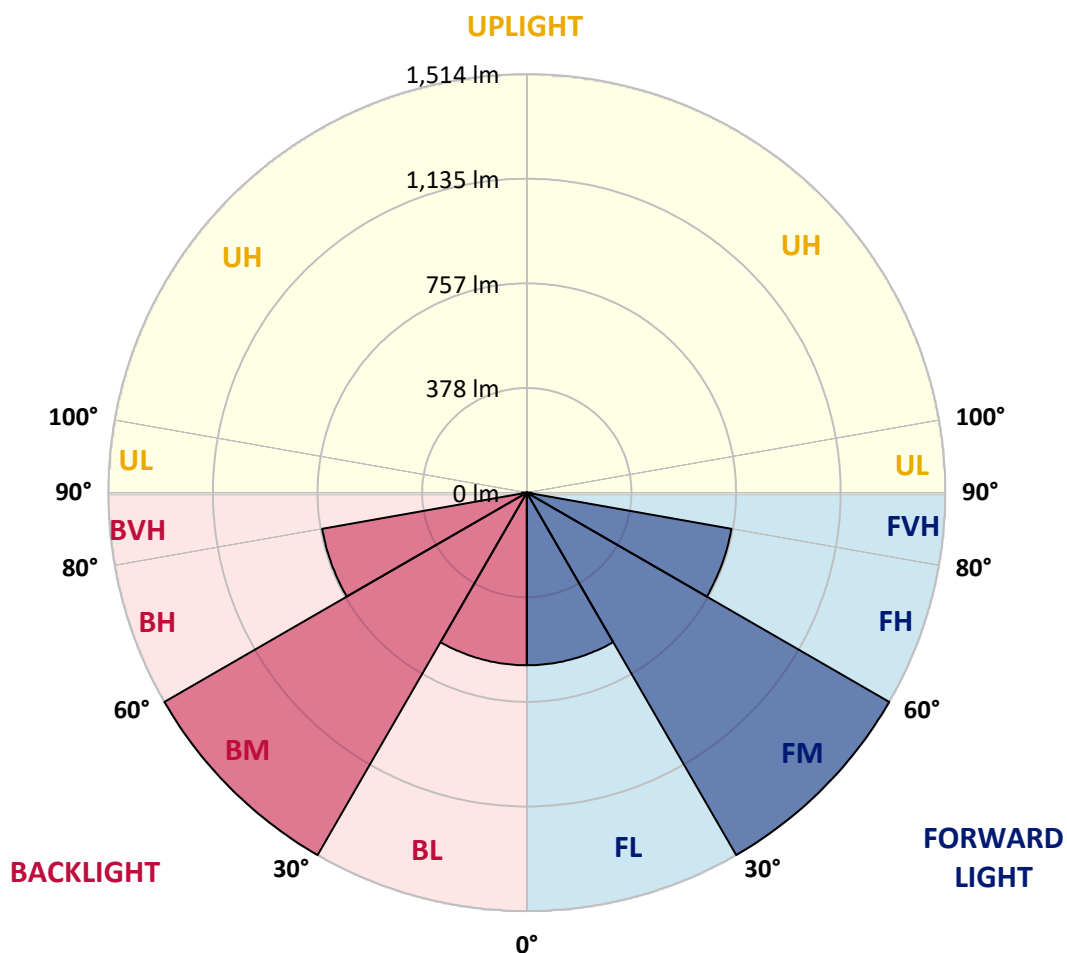
CATALOG NUMBER: GKO-PB1F-722-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	624.3	10.7			
FM	(30°-60°)	1513.6	26.0			
FH	(60°-80°)	751.5	12.9			G1/1800
FVH	(80°-90°)	17.7	0.3			G1/100
BL	(0°-30°)	624.3	10.7	B2/1000		
BM	(30°-60°)	1513.6	26.0	B2/2500		
BH	(60°-80°)	751.5	12.9	B2/1000		G2/1000
BVH	(80°-90°)	17.7	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°	1442.8	1442.8	1442.8	1442.8	1442.8	1442.8	1442.8	1442.8	1442.8	1442.8	1442.8
2.5°	1443.8	1446.0	1441.7	1441.7	1443.8	1444.9	1444.9	1446.0	1443.8	1443.8	1442.8
5°	1443.8	1444.9	1442.8	1442.8	1444.9	1448.1	1447.0	1449.2	1449.2	1448.1	1448.1
7.5°	1442.8	1444.9	1442.8	1443.8	1447.0	1453.5	1453.5	1453.5	1455.6	1457.8	1457.8
10°	1441.7	1443.8	1444.9	1446.0	1450.3	1459.9	1462.1	1463.1	1466.3	1469.6	1469.6
12.5°	1436.3	1438.5	1441.7	1446.0	1453.5	1466.3	1470.6	1473.8	1479.2	1482.4	1484.6
15°	1428.8	1429.9	1437.4	1446.0	1457.8	1473.8	1482.4	1487.8	1495.3	1499.6	1502.8
17.5°	1418.1	1419.2	1431.0	1443.8	1461.0	1483.5	1497.4	1506.0	1513.5	1519.9	1524.2
20°	1404.2	1407.4	1421.3	1441.7	1466.3	1493.1	1513.5	1528.5	1536.0	1542.4	1548.9
22.5°	1387.0	1390.2	1407.4	1436.3	1471.7	1506.0	1532.8	1552.1	1561.7	1570.3	1577.8
25°	1361.3	1365.6	1385.9	1423.5	1473.8	1519.9	1554.2	1578.9	1587.5	1598.2	1604.6
27.5°	1321.6	1324.8	1349.5	1397.7	1467.4	1534.9	1578.9	1607.8	1617.5	1629.3	1635.7
30°	1259.5	1265.9	1295.9	1355.9	1451.3	1546.7	1607.8	1636.8	1648.6	1660.3	1668.9
32.5°	1179.1	1188.7	1221.9	1299.1	1420.2	1551.0	1638.9	1672.1	1687.1	1700.0	1710.7
35°	1079.4	1089.0	1128.7	1226.2	1370.9	1542.4	1670.0	1712.9	1731.1	1748.2	1761.1
37.5°	965.8	974.3	1022.6	1134.1	1300.2	1515.6	1694.6	1757.9	1782.5	1805.1	1822.2
40°	851.1	860.7	913.2	1032.2	1214.4	1464.2	1705.4	1807.2	1838.3	1867.2	1888.7
42.5°	726.7	738.5	797.5	924.0	1114.8	1393.4	1696.8	1855.4	1894.0	1933.7	1965.8
45°	616.3	618.5	682.8	805.0	1005.4	1302.3	1666.8	1901.5	1954.0	2009.8	2055.9
47.5°	510.2	514.5	570.2	691.4	891.8	1199.4	1612.1	1938.0	2021.6	2093.4	2160.9
50°	415.9	421.3	471.6	579.9	778.2	1086.9	1538.2	1959.4	2079.5	2177.0	2271.3
52.5°	338.7	345.1	387.0	482.3	663.5	969.0	1447.0	1962.6	2132.0	2260.6	2386.0
55°	281.9	286.2	318.3	394.5	553.1	846.8	1343.1	1946.5	2166.3	2335.6	2502.9
57.5°	238.0	242.2	264.8	324.8	453.4	721.4	1216.6	1909.0	2184.5	2401.0	2620.8
60°	206.9	210.1	226.2	269.0	373.0	603.5	1080.5	1842.6	2179.1	2441.8	2718.3
62.5°	184.4	185.4	199.4	229.4	307.6	492.0	927.2	1742.9	2135.2	2447.1	2784.8
65°	164.0	165.1	173.6	195.1	253.0	395.5	767.5	1605.7	2051.6	2409.6	2794.4
67.5°	132.9	135.1	147.9	164.0	207.9	313.0	604.5	1425.6	1920.8	2312.1	2739.7
70°	106.1	107.2	120.1	138.3	169.4	246.5	464.1	1183.4	1716.1	2153.4	2598.2
72.5°	79.3	81.5	93.3	111.5	138.3	190.8	335.5	895.0	1372.0	1815.8	2262.7
75°	63.2	64.3	68.6	85.8	107.2	144.7	226.2	542.4	826.4	1123.3	1387.0
77.5°	53.6	54.7	54.7	66.5	79.3	97.5	120.1	215.4	349.4	497.4	659.2
80°	43.9	46.1	41.8	49.3	56.8	56.8	55.7	102.9	165.1	233.7	306.6
82.5°	32.2	34.3	32.2	34.3	34.3	31.1	28.9	38.6	52.5	71.8	78.2
85°	22.5	23.6	25.7	23.6	22.5	18.2	13.9	10.7	6.4	7.5	10.7
87.5°	15.0	18.2	21.4	20.4	17.2	13.9	9.6	6.4	3.2	4.3	4.3
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°	1442.8	1442.8	1442.8
2.5°	1443.8	1442.8	1441.7
5°	1449.2	1448.1	1447.0
7.5°	1456.7	1456.7	1456.7
10°	1468.5	1470.6	1470.6
12.5°	1483.5	1485.6	1485.6
15°	1501.7	1502.8	1504.9
17.5°	1524.2	1525.3	1525.3
20°	1551.0	1549.9	1552.1
22.5°	1577.8	1577.8	1577.8
25°	1605.7	1605.7	1605.7
27.5°	1637.8	1637.8	1635.7
30°	1673.2	1673.2	1673.2
32.5°	1716.1	1717.2	1718.2
35°	1770.8	1772.9	1776.1
37.5°	1832.9	1838.3	1841.5
40°	1906.9	1909.0	1914.4
42.5°	1989.4	1995.8	1996.9
45°	2092.3	2103.0	2107.3
47.5°	2213.4	2228.4	2236.0
50°	2348.5	2365.6	2376.4
52.5°	2495.3	2523.2	2536.1
55°	2651.8	2700.1	2714.0
57.5°	2828.7	2894.1	2913.4
60°	3002.3	3094.5	3125.6
62.5°	3150.3	3280.0	3318.6
65°	3254.2	3410.7	3467.5
67.5°	3275.7	3461.1	3528.6
70°	3147.1	3336.8	3415.0
72.5°	2736.5	2908.0	3005.6
75°	1616.4	1739.7	1709.7
77.5°	811.4	846.8	852.1
80°	355.9	377.3	385.9
82.5°	87.9	90.0	101.8
85°	11.8	13.9	12.9
87.5°	4.3	4.3	5.4
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: SP2-2501-321-2

Test Date: 04/09/2025

Luminaire Tested: GKO-PB1E-722-U-T4W

Data in this report applies to families of products including GKO-PB1E-722-U-T4W

Test Information

Test Method: LM-79-2019
 Report Number: SP2-2501-321-2
 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-722-U-T4W**
 Description: Gekko Wedge Wall Pack Fixture 1 SQ w/ T4W distribution

Spectral Parameters

CCT (K):	2281	CRI (Ra):	70.6		
CIE u':	0.2851	R1:	68.4	R9:	-35.1
CIE v':	0.5324	R2:	88.7	R10:	78.0
Duv:	-0.0016	R3:	85.7	R11:	60.2
CIE x:	0.4942	R4:	63.2	R12:	73.8
CIE y:	0.4102	R5:	69.0	R13:	72.8
CIE z:	0.0956	R6:	88.6	R14:	92.4
Peak Wavelength (nm):	602	R7:	68.8	R15:	58.4
Dominant Wavelength (nm):	587	R8:	32.6		
Purity:	71.48321				
Rf:	76.9				
Rg:	92.6				



Test Conditions

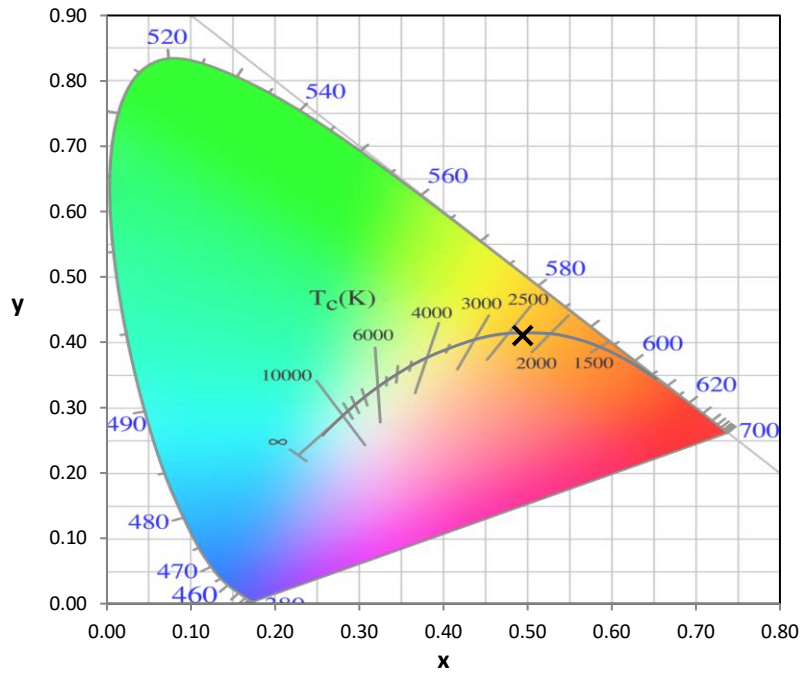
Stabilization Time: 40M
 Operation Time: 1H 40M
 Sphere Temperature (°C): 25.0

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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 2200K 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	124	NR	620	894	NR	750	22	NR	880	0	NR
365	0	NR	495	141	NR	625	837	NR	755	19	NR	885	0	NR
370	0	NR	500	163	NR	630	774	NR	760	16	NR	890	0	NR
375	0	NR	505	184	NR	635	706	NR	765	13	NR	895	0	NR
380	0	NR	510	204	NR	640	638	NR	770	11	NR	900	0	NR
385	0	NR	515	221	NR	645	570	NR	775	10	NR	905	0	NR
390	0	NR	520	237	NR	650	505	NR	780	8	NR	910	0	NR
395	0	NR	525	252	NR	655	446	NR	785	7	NR	915	0	NR
400	0	NR	530	268	NR	660	389	NR	790	6	NR	920	0	NR
405	1	NR	535	287	NR	665	339	NR	795	5	NR	925	0	NR
410	2	NR	540	310	NR	670	292	NR	800	4	NR	930	0	NR
415	5	NR	545	339	NR	675	253	NR	805	4	NR	935	0	NR
420	9	NR	550	377	NR	680	217	NR	810	3	NR	940	0	NR
425	15	NR	555	424	NR	685	186	NR	815	3	NR	945	0	NR
430	26	NR	560	482	NR	690	158	NR	820	2	NR	950	0	NR
435	43	NR	565	551	NR	695	135	NR	825	2	NR	955	0	NR
440	71	NR	570	632	NR	700	114	NR	830	2	NR	960	0	NR
445	123	NR	575	714	NR	705	97	NR	835	2	NR	965	0	NR
450	210	NR	580	797	NR	710	82	NR	840	1	NR	970	0	NR
455	245	NR	585	873	NR	715	70	NR	845	1	NR	975	0	NR
460	190	NR	590	934	NR	720	59	NR	850	1	NR	980	0	NR
465	161	NR	595	975	NR	725	50	NR	855	1	NR	985	0	NR
470	145	NR	600	996	NR	730	43	NR	860	1	NR	990	0	NR
475	117	NR	605	997	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	978	NR	740	30	NR	870	1	NR	1000	0	NR
485	113	NR	615	945	NR	745	26	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



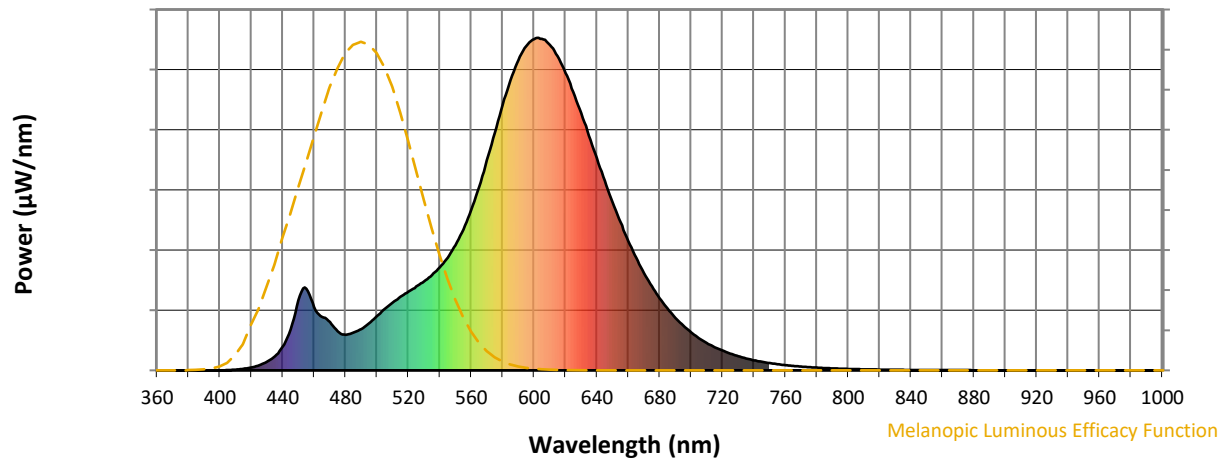
Scotopic Lumens: NR

S/P: 0.98

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	124	NR	620	894	NR	750	22	NR	880	0	NR
365	0	NR	495	141	NR	625	837	NR	755	19	NR	885	0	NR
370	0	NR	500	163	NR	630	774	NR	760	16	NR	890	0	NR
375	0	NR	505	184	NR	635	706	NR	765	13	NR	895	0	NR
380	0	NR	510	204	NR	640	638	NR	770	11	NR	900	0	NR
385	0	NR	515	221	NR	645	570	NR	775	10	NR	905	0	NR
390	0	NR	520	237	NR	650	505	NR	780	8	NR	910	0	NR
395	0	NR	525	252	NR	655	446	NR	785	7	NR	915	0	NR
400	0	NR	530	268	NR	660	389	NR	790	6	NR	920	0	NR
405	1	NR	535	287	NR	665	339	NR	795	5	NR	925	0	NR
410	2	NR	540	310	NR	670	292	NR	800	4	NR	930	0	NR
415	5	NR	545	339	NR	675	253	NR	805	4	NR	935	0	NR
420	9	NR	550	377	NR	680	217	NR	810	3	NR	940	0	NR
425	15	NR	555	424	NR	685	186	NR	815	3	NR	945	0	NR
430	26	NR	560	482	NR	690	158	NR	820	2	NR	950	0	NR
435	43	NR	565	551	NR	695	135	NR	825	2	NR	955	0	NR
440	71	NR	570	632	NR	700	114	NR	830	2	NR	960	0	NR
445	123	NR	575	714	NR	705	97	NR	835	2	NR	965	0	NR
450	210	NR	580	797	NR	710	82	NR	840	1	NR	970	0	NR
455	245	NR	585	873	NR	715	70	NR	845	1	NR	975	0	NR
460	190	NR	590	934	NR	720	59	NR	850	1	NR	980	0	NR
465	161	NR	595	975	NR	725	50	NR	855	1	NR	985	0	NR
470	145	NR	600	996	NR	730	43	NR	860	1	NR	990	0	NR
475	117	NR	605	997	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	978	NR	740	30	NR	870	1	NR	1000	0	NR
485	113	NR	615	945	NR	745	26	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.75

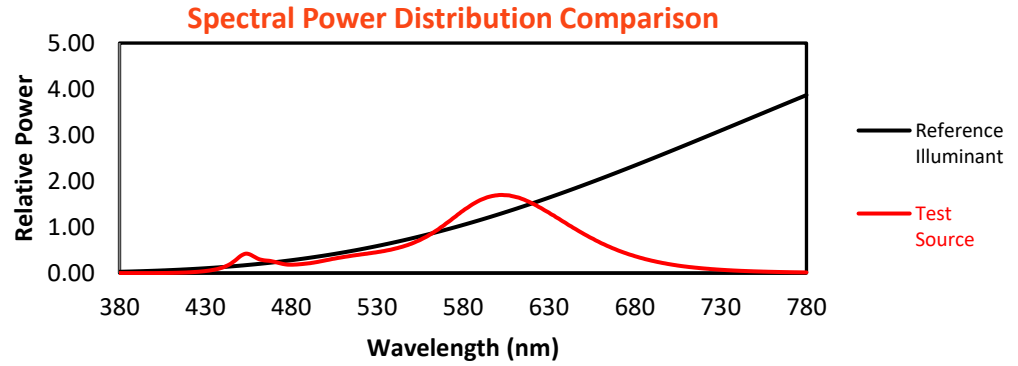
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	124	NR	620	894	NR	750	22	NR	880	0	NR
365	0	NR	495	141	NR	625	837	NR	755	19	NR	885	0	NR
370	0	NR	500	163	NR	630	774	NR	760	16	NR	890	0	NR
375	0	NR	505	184	NR	635	706	NR	765	13	NR	895	0	NR
380	0	NR	510	204	NR	640	638	NR	770	11	NR	900	0	NR
385	0	NR	515	221	NR	645	570	NR	775	10	NR	905	0	NR
390	0	NR	520	237	NR	650	505	NR	780	8	NR	910	0	NR
395	0	NR	525	252	NR	655	446	NR	785	7	NR	915	0	NR
400	0	NR	530	268	NR	660	389	NR	790	6	NR	920	0	NR
405	1	NR	535	287	NR	665	339	NR	795	5	NR	925	0	NR
410	2	NR	540	310	NR	670	292	NR	800	4	NR	930	0	NR
415	5	NR	545	339	NR	675	253	NR	805	4	NR	935	0	NR
420	9	NR	550	377	NR	680	217	NR	810	3	NR	940	0	NR
425	15	NR	555	424	NR	685	186	NR	815	3	NR	945	0	NR
430	26	NR	560	482	NR	690	158	NR	820	2	NR	950	0	NR
435	43	NR	565	551	NR	695	135	NR	825	2	NR	955	0	NR
440	71	NR	570	632	NR	700	114	NR	830	2	NR	960	0	NR
445	123	NR	575	714	NR	705	97	NR	835	2	NR	965	0	NR
450	210	NR	580	797	NR	710	82	NR	840	1	NR	970	0	NR
455	245	NR	585	873	NR	715	70	NR	845	1	NR	975	0	NR
460	190	NR	590	934	NR	720	59	NR	850	1	NR	980	0	NR
465	161	NR	595	975	NR	725	50	NR	855	1	NR	985	0	NR
470	145	NR	600	996	NR	730	43	NR	860	1	NR	990	0	NR
475	117	NR	605	997	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	978	NR	740	30	NR	870	1	NR	1000	0	NR
485	113	NR	615	945	NR	745	26	NR	875	1	NR			

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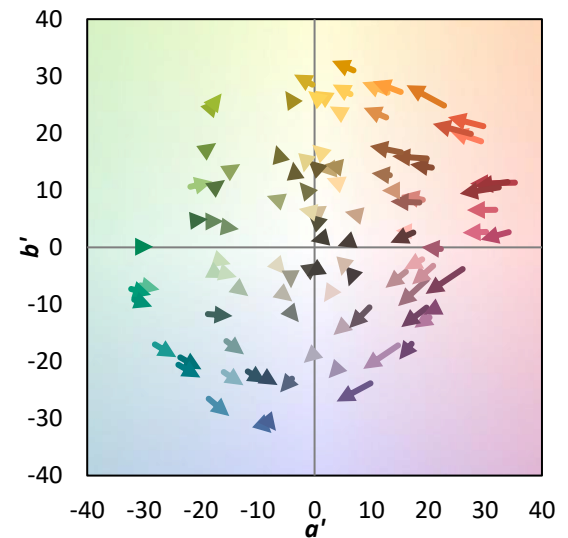
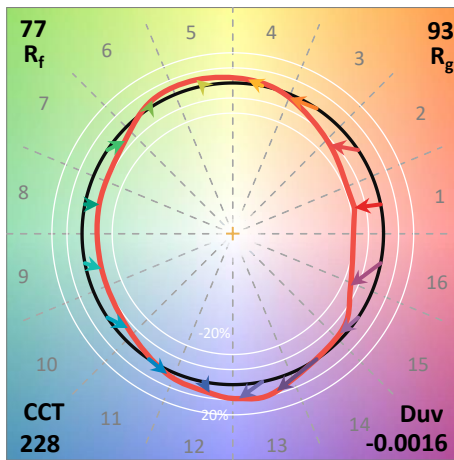
TM-30-18

Summary

$R_f = 76.9$
 $R_g = 92.6$
 $CIE R_a = 70.6$
 $R_g = -35.1$

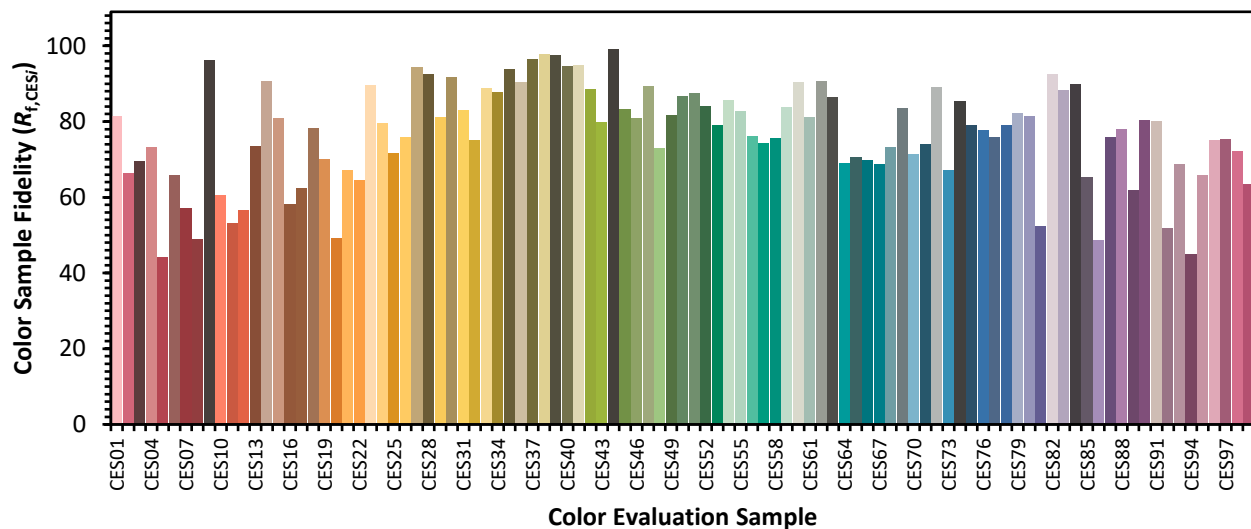


Color Vector Graphics



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

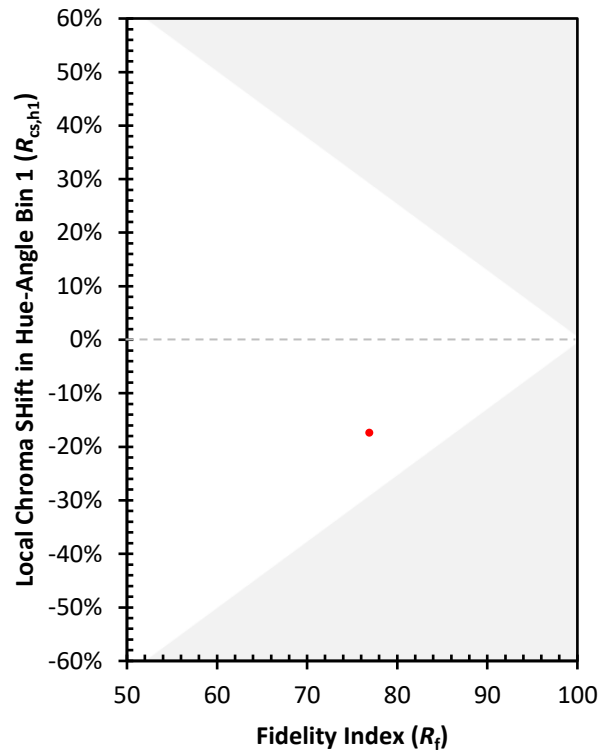
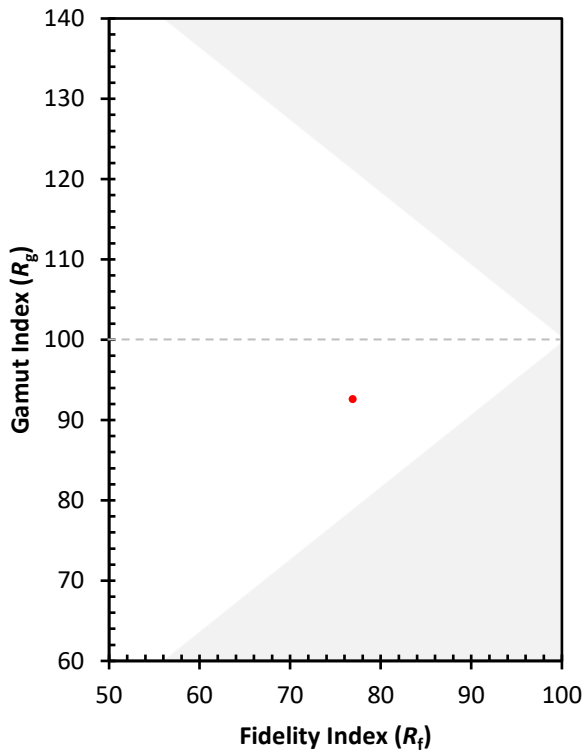
CES01 = 87	CES26 = 76	CES51 = 88	CES76 = 78
CES02 = 65	CES27 = 94	CES52 = 84	CES77 = 76
CES03 = 32	CES28 = 93	CES53 = 79	CES78 = 79
CES04 = 72	CES29 = 81	CES54 = 86	CES79 = 82
CES05 = 51	CES30 = 92	CES55 = 83	CES80 = 81
CES06 = 52	CES31 = 83	CES56 = 76	CES81 = 52
CES07 = 44	CES32 = 75	CES57 = 74	CES82 = 92
CES08 = 42	CES33 = 89	CES58 = 76	CES83 = 88
CES09 = 29	CES34 = 88	CES59 = 84	CES84 = 90
CES10 = 79	CES35 = 94	CES60 = 91	CES85 = 65
CES11 = 62	CES36 = 90	CES61 = 81	CES86 = 49
CES12 = 68	CES37 = 96	CES62 = 91	CES87 = 76
CES13 = 44	CES38 = 98	CES63 = 86	CES88 = 78
CES14 = 75	CES39 = 98	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 95	CES65 = 71	CES90 = 80
CES16 = 48	CES41 = 95	CES66 = 70	CES91 = 80
CES17 = 51	CES42 = 89	CES67 = 69	CES92 = 52
CES18 = 57	CES43 = 80	CES68 = 73	CES93 = 69
CES19 = 74	CES44 = 99	CES69 = 84	CES94 = 45
CES20 = 68	CES45 = 83	CES70 = 71	CES95 = 66
CES21 = 88	CES46 = 81	CES71 = 74	CES96 = 75
CES22 = 81	CES47 = 89	CES72 = 89	CES97 = 75
CES23 = 92	CES48 = 73	CES73 = 67	CES98 = 72
CES24 = 92	CES49 = 82	CES74 = 85	CES99 = 64
CES25 = 73	CES50 = 87	CES75 = 79	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)