

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: P972430

Luminaire Tested: **GKO-PB2B-740-U-T1**

Issue Date: 02/27/2025



Test Information

Test Method: LM-79-08
Report Number: P972430
Test Lab: INNOVATION CENTER(G1)
Issue Date: 02/27/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GKO-PB2B-740-U-T1
Description: GEKKO WALL PACK 6000LM PACKAGE 70CRI 4000K FIXTURE w/ TYPE I DISTRIBUTION OPTIC
Light Source: (20) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6682.6 lumens
Efficiency: N/A
Efficacy: 159.9 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

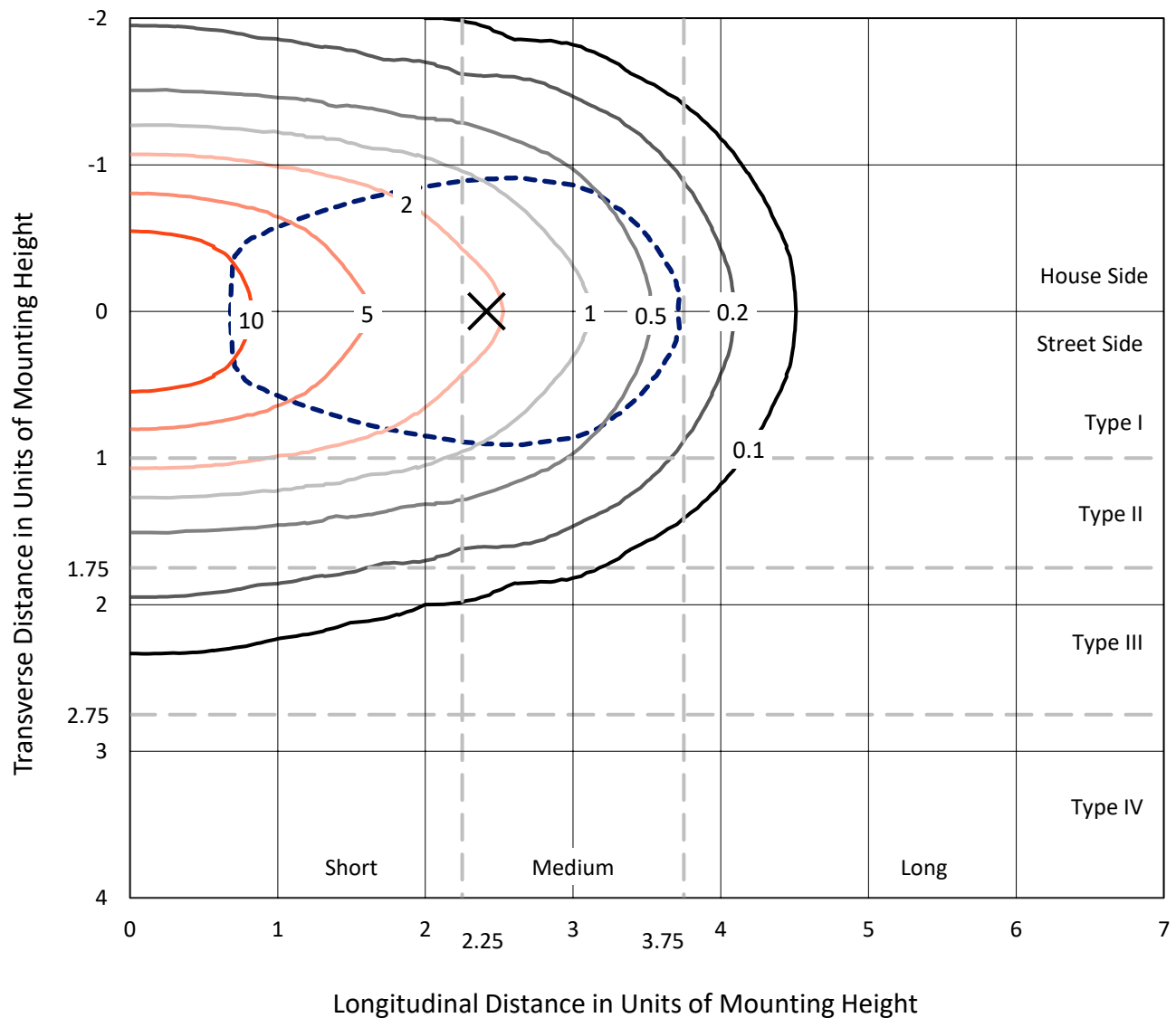
Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): 8%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

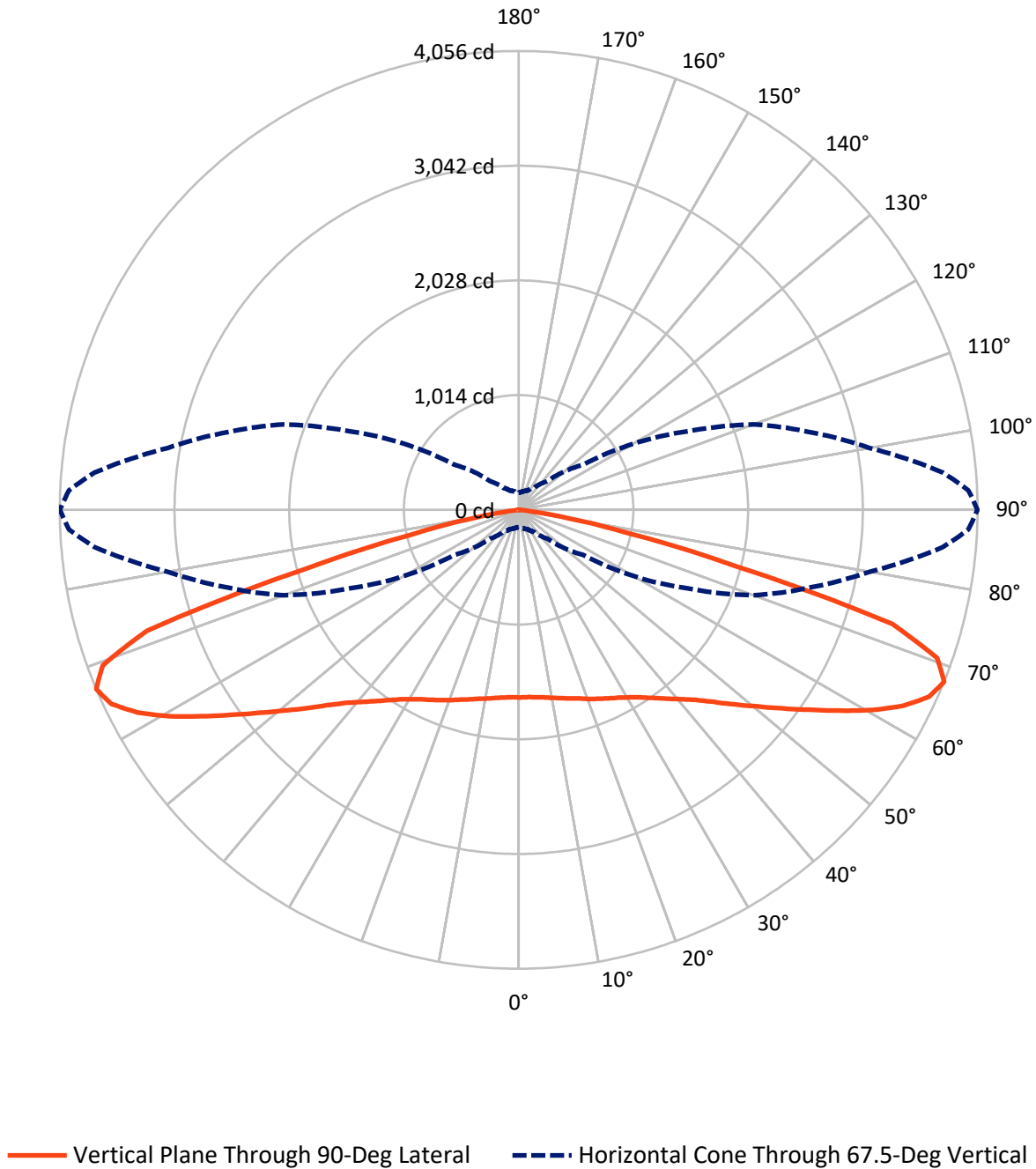


Based on 10 foot mounting height. Maximum calculated value = 16.6 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3341.3	0.0	3341.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3341.3	0.0	3341.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	6682.6	0.0	6682.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.0	2.4
10°-20°	479.2	7.2
20°-30°	796.9	11.9
30°-40°	1058.6	15.8
40°-50°	1193.5	17.9
50°-60°	1227.2	18.4
60°-70°	1159.8	17.4
70°-80°	567.7	8.5
80°-90°	40.6	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°	6682.6	100.0
0°-180°	6682.6	100.0

Coefficient of Utilization



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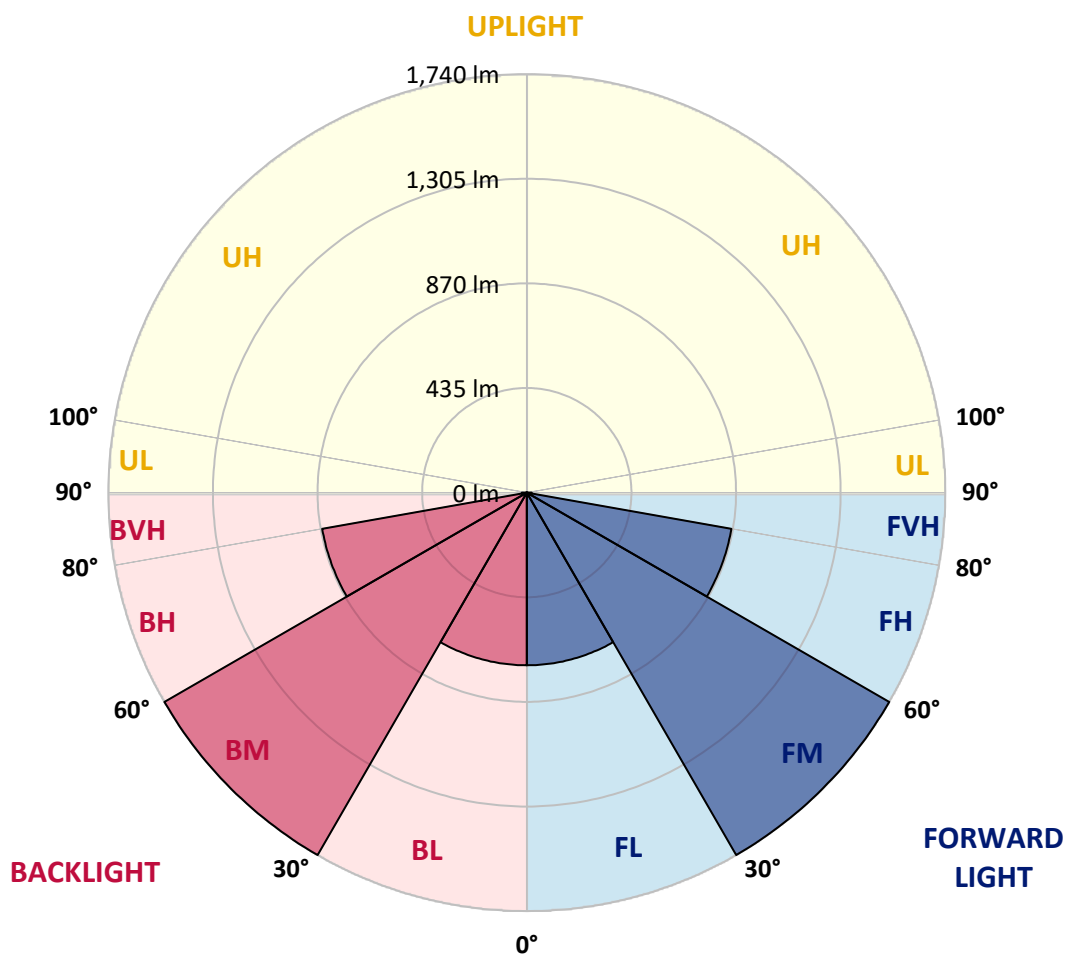
CATALOG NUMBER: GKO-PB2B-740-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	717.6	10.7			
FM	(30°-60°)	1739.7	26.0			
FH	(60°-80°)	863.7	12.9			G1/1800
FVH	(80°-90°)	20.3	0.3			G1/100
BL	(0°-30°)	717.6	10.7	B2/1000		
BM	(30°-60°)	1739.7	26.0	B2/2500		
BH	(60°-80°)	863.7	12.9	B2/1000		G2/1000
BVH	(80°-90°)	20.3	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°	1658.2	1658.2	1658.2	1658.2	1658.2	1658.2	1658.2	1658.2	1658.2	1658.2	1658.2
2.5°	1659.5	1661.9	1657.0	1657.0	1659.5	1660.7	1660.7	1661.9	1659.5	1659.5	1658.2
5°	1659.5	1660.7	1658.2	1658.2	1660.7	1664.4	1663.1	1665.6	1665.6	1664.4	1664.4
7.5°	1658.2	1660.7	1658.2	1659.5	1663.1	1670.5	1670.5	1670.5	1673.0	1675.5	1675.5
10°	1657.0	1659.5	1660.7	1661.9	1666.8	1677.9	1680.4	1681.6	1685.3	1689.0	1689.0
12.5°	1650.8	1653.3	1657.0	1661.9	1670.5	1685.3	1690.3	1693.9	1700.1	1703.8	1706.3
15°	1642.2	1643.4	1652.1	1661.9	1675.5	1693.9	1703.8	1710.0	1718.6	1723.5	1727.2
17.5°	1629.9	1631.1	1644.7	1659.5	1679.2	1705.0	1721.0	1730.9	1739.5	1746.9	1751.8
20°	1613.9	1617.6	1633.6	1657.0	1685.3	1716.1	1739.5	1756.8	1765.4	1772.8	1780.2
22.5°	1594.2	1597.9	1617.6	1650.8	1691.5	1730.9	1761.7	1783.9	1795.0	1804.8	1813.4
25°	1564.6	1569.5	1592.9	1636.0	1693.9	1746.9	1786.3	1814.7	1824.5	1836.9	1844.2
27.5°	1519.0	1522.7	1551.0	1606.5	1686.6	1764.2	1814.7	1847.9	1859.0	1872.6	1880.0
30°	1447.6	1454.9	1489.4	1558.4	1668.1	1777.7	1847.9	1881.2	1894.8	1908.3	1918.2
32.5°	1355.2	1366.2	1404.4	1493.1	1632.3	1782.6	1883.7	1921.9	1939.1	1953.9	1966.2
35°	1240.6	1251.7	1297.3	1409.4	1575.7	1772.8	1919.4	1968.7	1989.6	2009.3	2024.1
37.5°	1110.0	1119.9	1175.3	1303.4	1494.4	1742.0	1947.7	2020.4	2048.8	2074.6	2094.3
40°	978.2	989.3	1049.6	1186.4	1395.8	1682.9	1960.1	2077.1	2112.8	2146.1	2170.7
42.5°	835.3	848.8	916.6	1062.0	1281.2	1601.5	1950.2	2132.5	2176.9	2222.5	2259.4
45°	708.4	710.8	784.8	925.2	1155.6	1496.8	1915.7	2185.5	2245.9	2309.9	2362.9
47.5°	586.4	591.3	655.4	794.6	1025.0	1378.6	1852.9	2227.4	2323.5	2406.0	2483.6
50°	478.0	484.2	542.1	666.5	894.4	1249.2	1767.9	2252.0	2390.0	2502.1	2610.5
52.5°	389.3	396.7	444.7	554.4	762.6	1113.7	1663.1	2255.7	2450.4	2598.2	2742.3
55°	324.0	328.9	365.9	453.4	635.7	973.2	1543.6	2237.2	2489.8	2684.4	2876.6
57.5°	273.5	278.4	304.3	373.3	521.1	829.1	1398.3	2194.1	2510.7	2759.6	3012.1
60°	237.8	241.5	259.9	309.2	428.7	693.6	1241.8	2117.7	2504.6	2806.4	3124.3
62.5°	211.9	213.1	229.1	263.6	353.6	565.5	1065.6	2003.2	2454.1	2812.6	3200.6
65°	188.5	189.7	199.6	224.2	290.7	454.6	882.1	1845.5	2358.0	2769.4	3211.7
67.5°	152.8	155.2	170.0	188.5	239.0	359.7	694.8	1638.5	2207.7	2657.3	3148.9
70°	122.0	123.2	138.0	158.9	194.6	283.4	533.4	1360.1	1972.4	2475.0	2986.3
72.5°	91.2	93.6	107.2	128.1	158.9	219.3	385.6	1028.7	1576.9	2086.9	2600.7
75°	72.7	73.9	78.8	98.6	123.2	166.3	259.9	623.4	949.8	1291.1	1594.2
77.5°	61.6	62.8	62.8	76.4	91.2	112.1	138.0	247.6	401.6	571.6	757.7
80°	50.5	53.0	48.0	56.7	65.3	65.3	64.1	118.3	189.7	268.6	352.3
82.5°	37.0	39.4	37.0	39.4	39.4	35.7	33.3	44.4	60.4	82.5	89.9
85°	25.9	27.1	29.6	27.1	25.9	20.9	16.0	12.3	7.4	8.6	12.3
87.5°	17.2	20.9	24.6	23.4	19.7	16.0	11.1	7.4	3.7	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°	1658.2	1658.2	1658.2
2.5°	1659.5	1658.2	1657.0
5°	1665.6	1664.4	1663.1
7.5°	1674.2	1674.2	1674.2
10°	1687.8	1690.3	1690.3
12.5°	1705.0	1707.5	1707.5
15°	1726.0	1727.2	1729.7
17.5°	1751.8	1753.1	1753.1
20°	1782.6	1781.4	1783.9
22.5°	1813.4	1813.4	1813.4
25°	1845.5	1845.5	1845.5
27.5°	1882.4	1882.4	1880.0
30°	1923.1	1923.1	1923.1
32.5°	1972.4	1973.6	1974.8
35°	2035.2	2037.7	2041.4
37.5°	2106.7	2112.8	2116.5
40°	2191.7	2194.1	2200.3
42.5°	2286.5	2293.9	2295.1
45°	2404.8	2417.1	2422.0
47.5°	2544.0	2561.2	2569.9
50°	2699.2	2718.9	2731.3
52.5°	2868.0	2900.0	2914.8
55°	3047.9	3103.3	3119.3
57.5°	3251.1	3326.3	3348.5
60°	3450.7	3556.7	3592.4
62.5°	3620.7	3769.8	3814.2
65°	3740.2	3920.1	3985.4
67.5°	3764.9	3978.0	4055.6
70°	3617.0	3835.1	3925.0
72.5°	3145.2	3342.3	3454.4
75°	1857.8	1999.5	1965.0
77.5°	932.6	973.2	979.4
80°	409.0	433.7	443.5
82.5°	101.0	103.5	117.0
85°	13.6	16.0	14.8
87.5°	4.9	4.9	6.2
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

REPORT NUMBER: SP2-2501-321-1

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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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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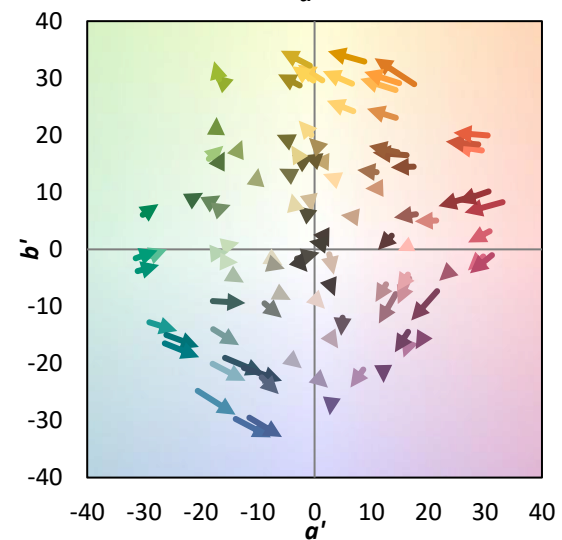
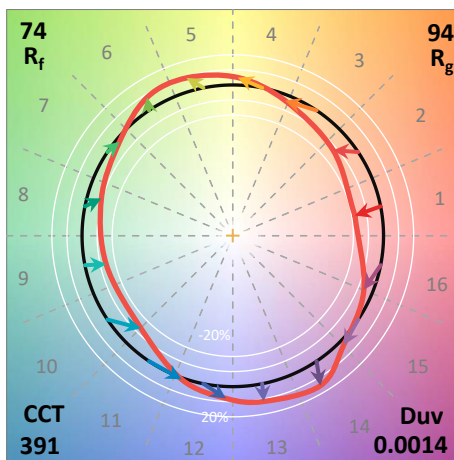
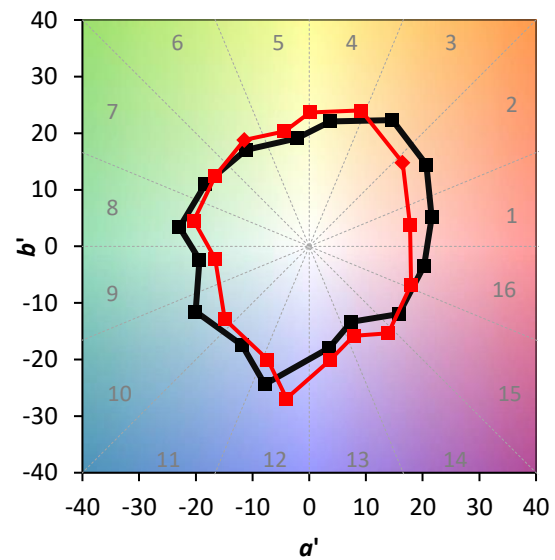
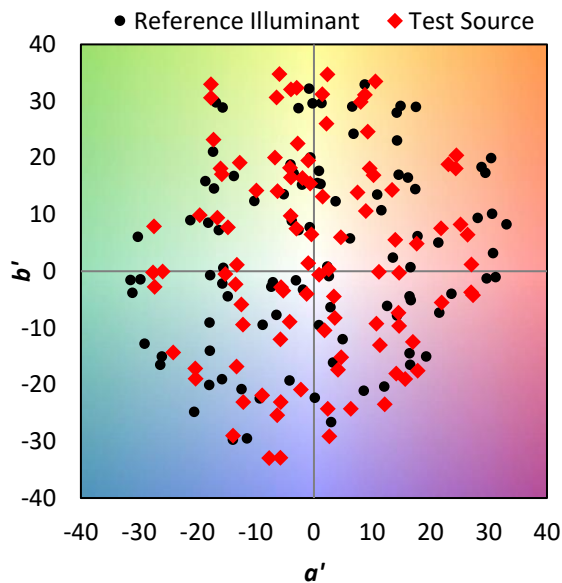
TM-30-18

Summary

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



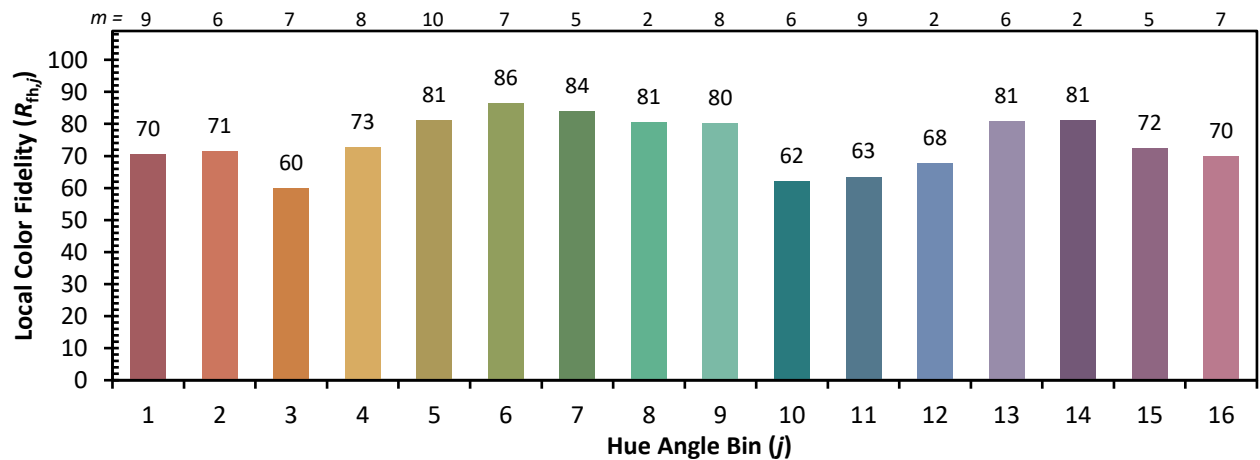
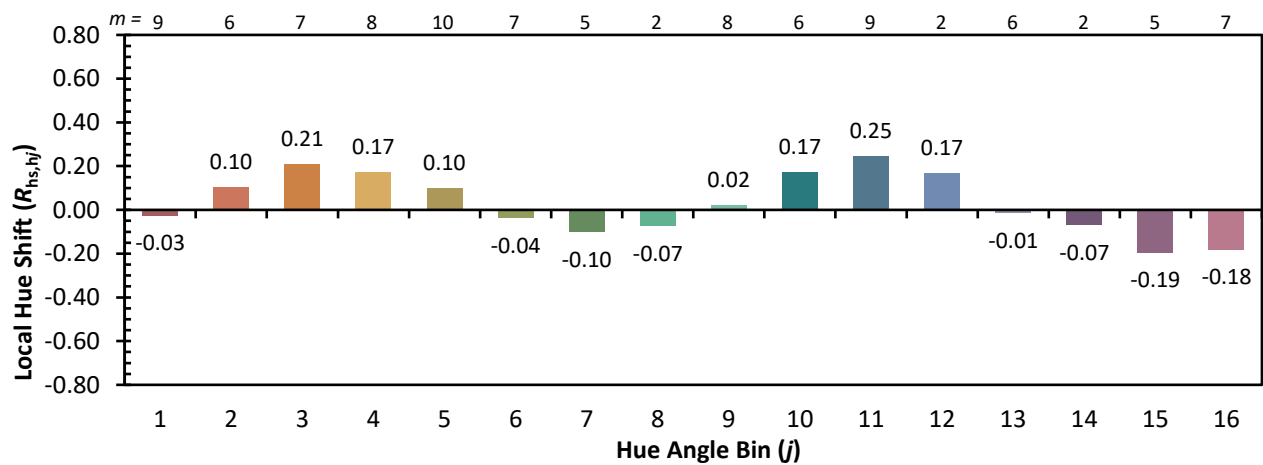
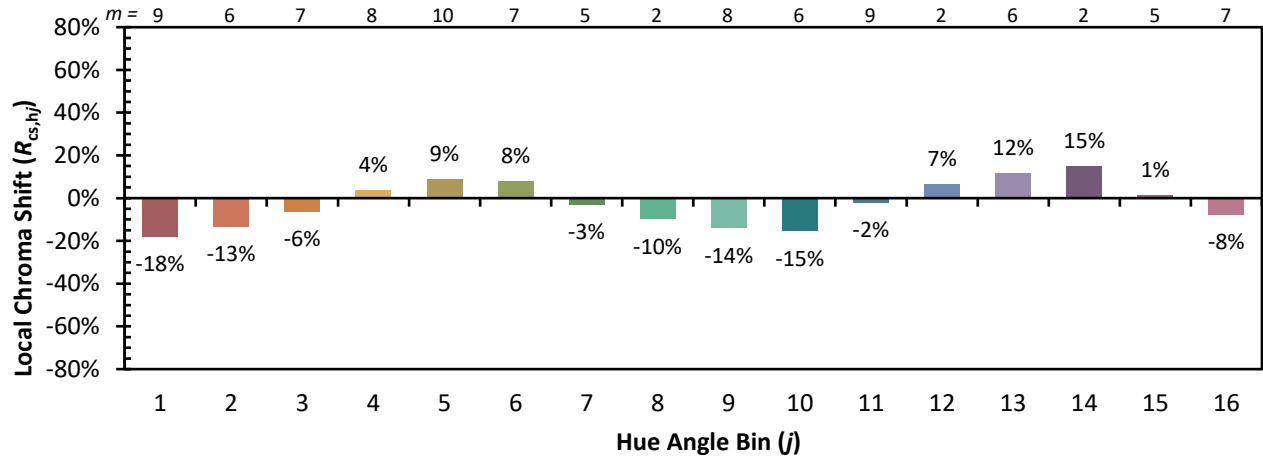
Color Vector Graphics



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)