

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: P1212059

Luminaire Tested: **GKO-PB2C-850-U-T1**

Issue Date: 11/5/2025



Test Information

Test Method: LM-79-08
Report Number: P1212059
Test Lab: INNOVATION CENTER(G1)
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GKO-PB2C-850-U-T1
Description: GEKKO WALL PACK 8000LM PACKAGE 80CRI 5000K FIXTURE w/ TYPE I DISTRIBUTION OPTIC
Light Source: (20) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

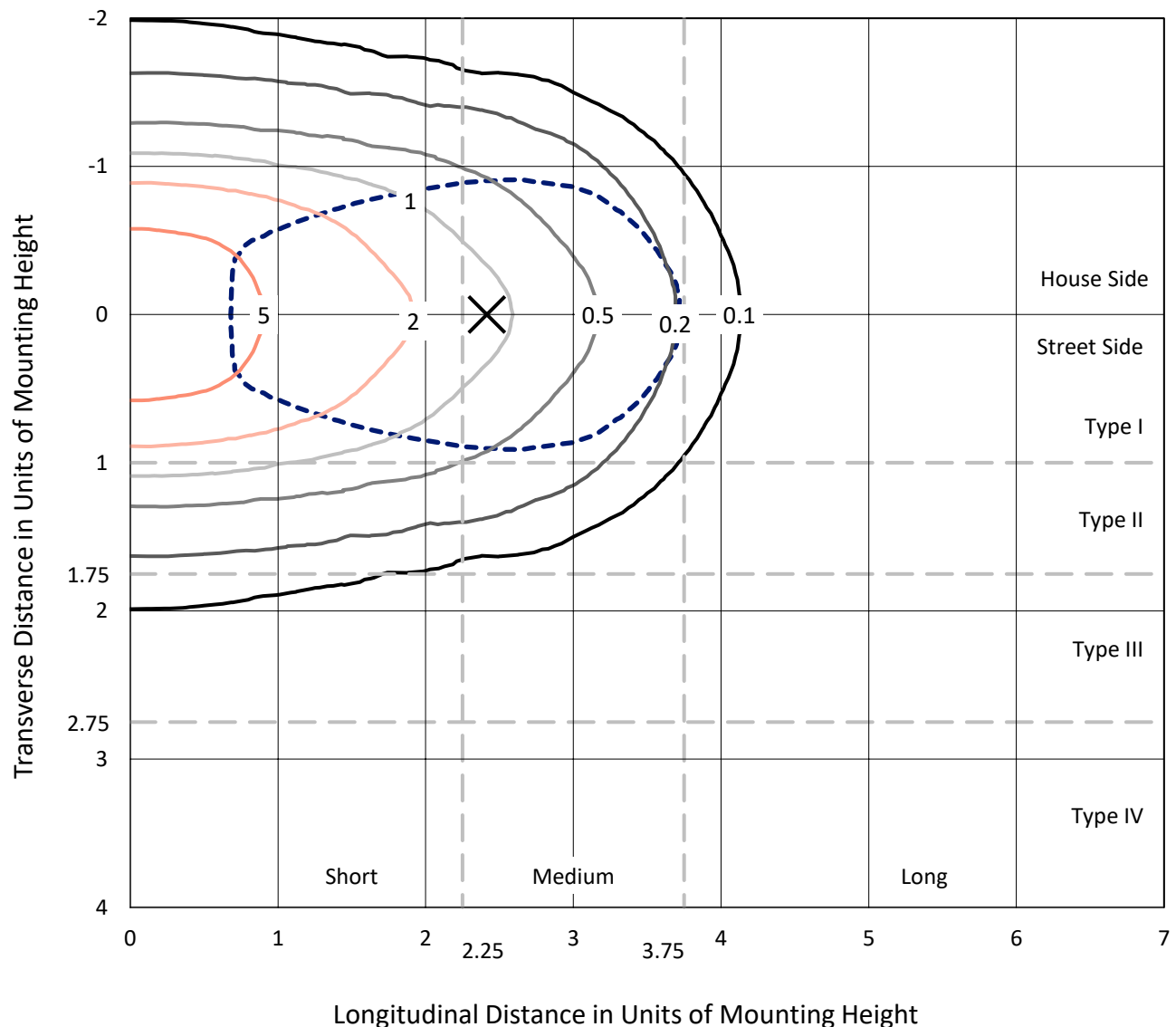
Lumens per Lamp: N/A
Luminaire Lumens: 8061.3 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 58.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): 5%
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

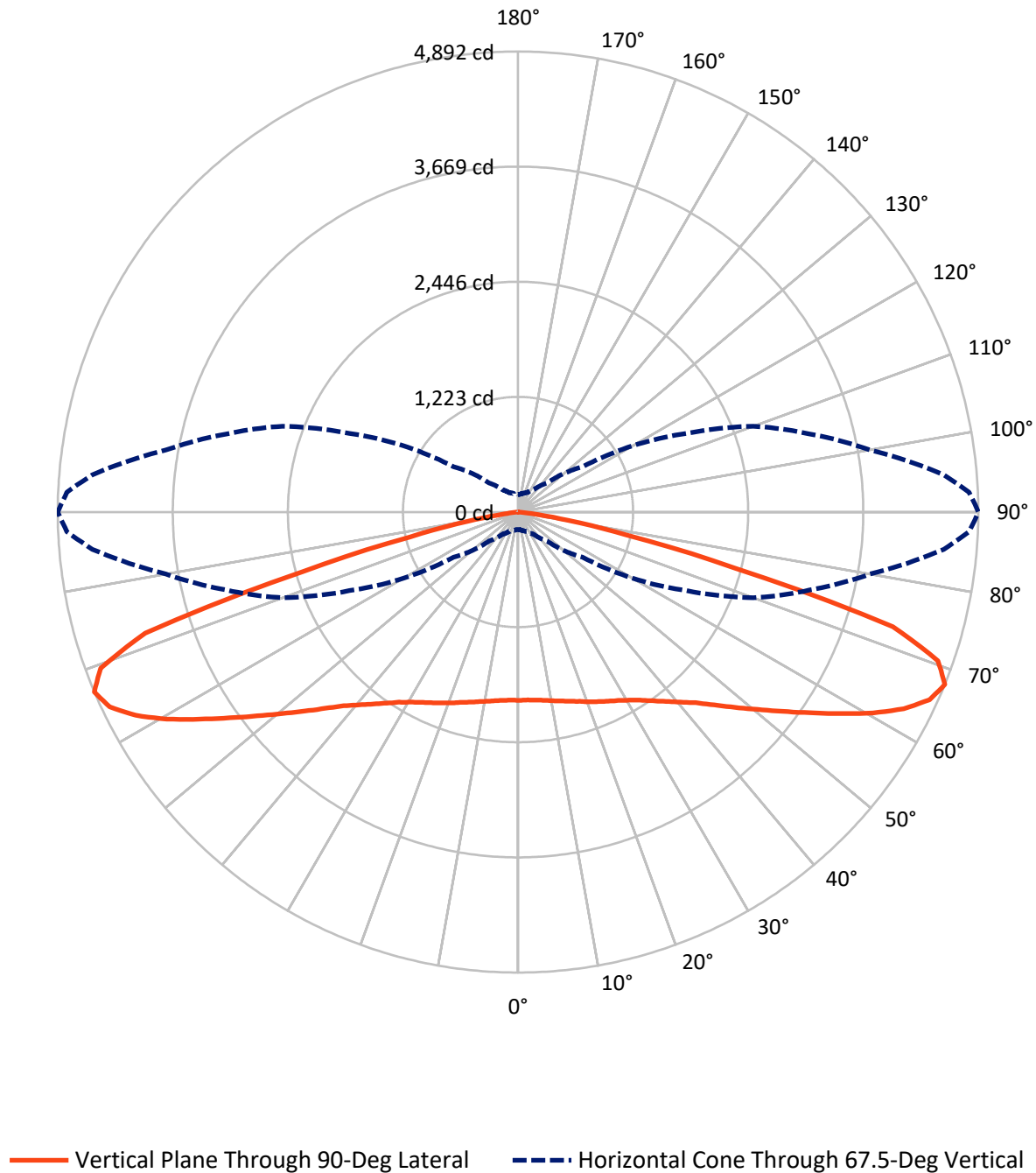
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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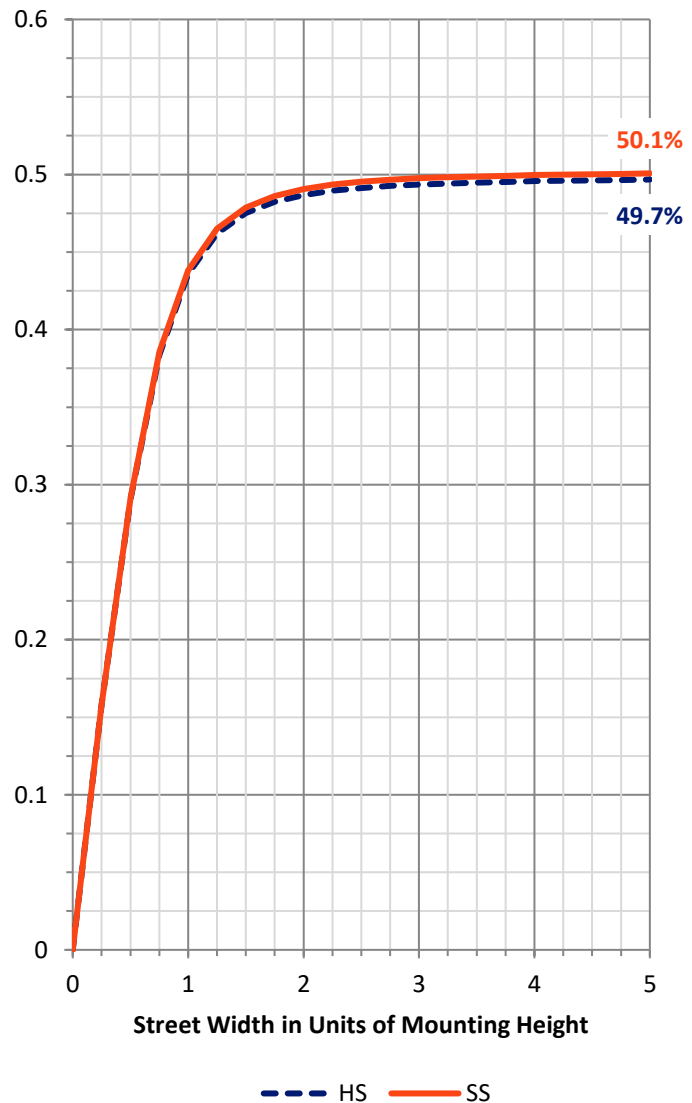
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4030.7	0.0	4030.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4030.7	0.0	4030.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	8061.3	0.0	8061.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.9	2.4
10°-20°	578.1	7.2
20°-30°	961.3	11.9
30°-40°	1277.0	15.8
40°-50°	1439.7	17.9
50°-60°	1480.4	18.4
60°-70°	1399.0	17.4
70°-80°	684.9	8.5
80°-90°	49.0	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°	8061.3	100.0
0°-180°	8061.3	100.0

Coefficient of Utilization



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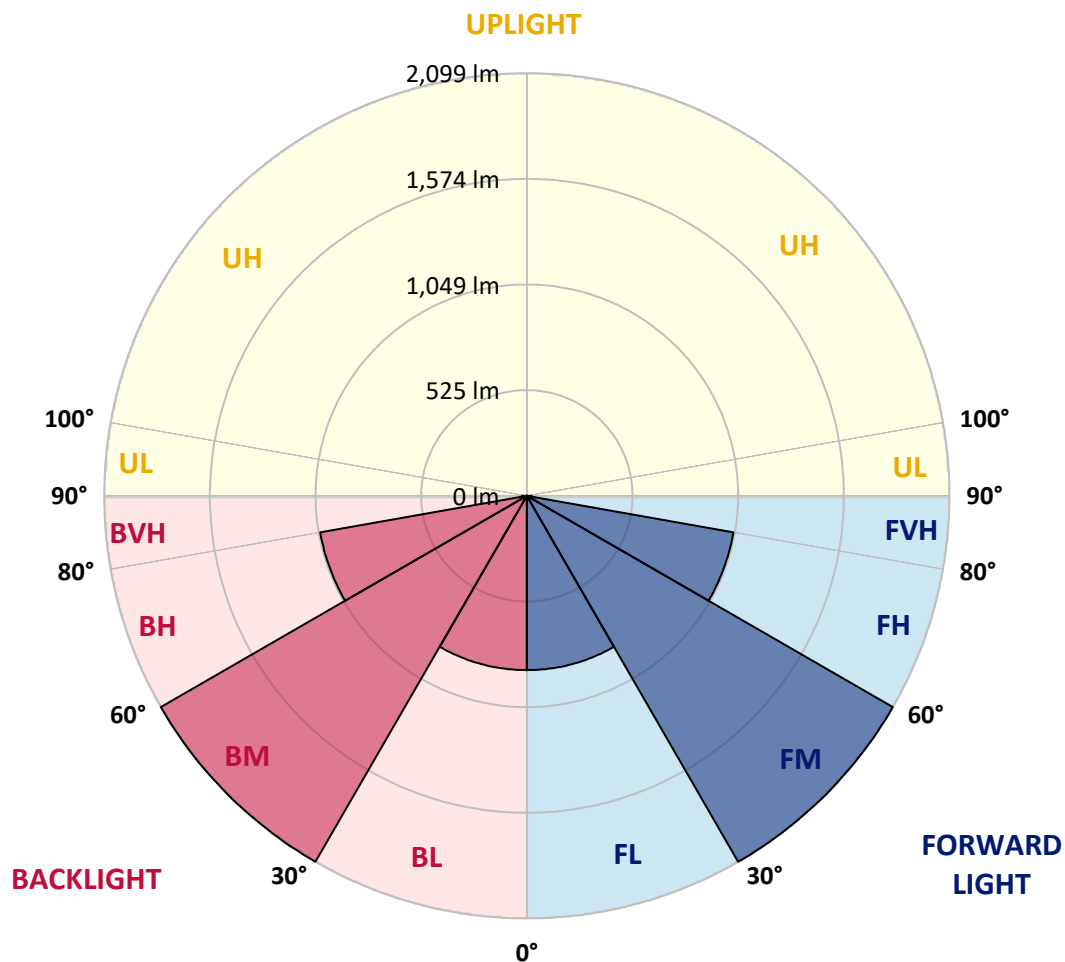
CATALOG NUMBER: GKO-PB2C-850-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	865.6	10.7			
FM	(30°-60°)	2098.6	26.0			
FH	(60°-80°)	1042.0	12.9			G1/1800
FVH	(80°-90°)	24.5	0.3			G1/100
BL	(0°-30°)	865.6	10.7	B2/1000		
BM	(30°-60°)	2098.6	26.0	B2/2500		
BH	(60°-80°)	1042.0	12.9	B3/2500		G3/2500
BVH	(80°-90°)	24.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3
2.5°	2001.8	2004.8	1998.9	1998.9	2001.8	2003.3	2003.3	2004.8	2001.8	2001.8	2000.3
5°	2001.8	2003.3	2000.3	2000.3	2003.3	2007.8	2006.3	2009.3	2009.3	2007.8	2007.8
7.5°	2000.3	2003.3	2000.3	2001.8	2006.3	2015.2	2015.2	2015.2	2018.2	2021.2	2021.2
10°	1998.9	2001.8	2003.3	2004.8	2010.7	2024.1	2027.1	2028.6	2033.0	2037.5	2037.5
12.5°	1991.4	1994.4	1998.9	2004.8	2015.2	2033.0	2039.0	2043.4	2050.9	2055.3	2058.3
15°	1981.0	1982.5	1992.9	2004.8	2021.2	2043.4	2055.3	2062.8	2073.2	2079.1	2083.6
17.5°	1966.2	1967.7	1984.0	2001.8	2025.6	2056.8	2076.1	2088.0	2098.4	2107.3	2113.3
20°	1946.8	1951.3	1970.6	1998.9	2033.0	2070.2	2098.4	2119.2	2129.6	2138.6	2147.5
22.5°	1923.1	1927.5	1951.3	1991.4	2040.5	2088.0	2125.2	2151.9	2165.3	2177.2	2187.6
25°	1887.4	1893.3	1921.6	1973.6	2043.4	2107.3	2154.9	2189.1	2201.0	2215.8	2224.8
27.5°	1832.4	1836.9	1871.1	1937.9	2034.5	2128.2	2189.1	2229.2	2242.6	2258.9	2267.9
30°	1746.2	1755.1	1796.7	1880.0	2012.2	2144.5	2229.2	2269.3	2285.7	2302.0	2313.9
32.5°	1634.8	1648.1	1694.2	1801.2	1969.1	2150.4	2272.3	2318.4	2339.2	2357.0	2371.9
35°	1496.5	1509.9	1564.9	1700.1	1900.8	2138.6	2315.4	2374.9	2400.1	2423.9	2441.7
37.5°	1339.0	1350.9	1417.8	1572.3	1802.7	2101.4	2349.6	2437.3	2471.5	2502.7	2526.4
40°	1180.0	1193.4	1266.2	1431.2	1683.8	2030.1	2364.4	2505.6	2548.7	2588.9	2618.6
42.5°	1007.6	1024.0	1105.7	1281.1	1545.6	1932.0	2352.6	2572.5	2626.0	2681.0	2725.6
45°	854.5	857.5	946.7	1116.1	1394.0	1805.7	2310.9	2636.4	2709.2	2786.5	2850.4
47.5°	707.4	713.3	790.6	958.6	1236.5	1663.0	2235.2	2686.9	2802.9	2902.4	2996.1
50°	576.6	584.1	653.9	804.0	1078.9	1506.9	2132.6	2716.7	2883.1	3018.4	3149.1
52.5°	469.6	478.5	536.5	668.8	919.9	1343.5	2006.3	2721.1	2955.9	3134.3	3308.1
55°	390.9	396.8	441.4	546.9	766.8	1174.1	1862.1	2698.8	3003.5	3238.3	3470.1
57.5°	329.9	335.9	367.1	450.3	628.6	1000.2	1686.8	2646.8	3028.8	3329.0	3633.6
60°	286.8	291.3	313.6	373.0	517.2	836.7	1498.0	2554.7	3021.3	3385.4	3768.9
62.5°	255.6	257.1	276.4	318.0	426.5	682.1	1285.5	2416.5	2960.4	3392.9	3861.0
65°	227.4	228.9	240.8	270.5	350.7	548.4	1064.1	2226.2	2844.5	3340.8	3874.4
67.5°	184.3	187.3	205.1	227.4	288.3	434.0	838.2	1976.6	2663.2	3205.6	3798.6
70°	147.1	148.6	166.4	191.7	234.8	341.8	643.5	1640.7	2379.3	2985.7	3602.4
72.5°	110.0	112.9	129.3	154.6	191.7	264.5	465.2	1240.9	1902.3	2517.5	3137.2
75°	87.7	89.2	95.1	118.9	148.6	200.6	313.6	752.0	1145.8	1557.5	1923.1
77.5°	74.3	75.8	75.8	92.1	110.0	135.2	166.4	298.7	484.5	689.6	914.0
80°	60.9	63.9	58.0	68.4	78.8	78.8	77.3	142.7	228.9	324.0	425.0
82.5°	44.6	47.6	44.6	47.6	47.6	43.1	40.1	53.5	72.8	99.6	108.5
85°	31.2	32.7	35.7	32.7	31.2	25.3	19.3	14.9	8.9	10.4	14.9
87.5°	20.8	25.3	29.7	28.2	23.8	19.3	13.4	8.9	4.5	5.9	5.9
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°	2000.3	2000.3	2000.3
2.5°	2001.8	2000.3	1998.9
5°	2009.3	2007.8	2006.3
7.5°	2019.7	2019.7	2019.7
10°	2036.0	2039.0	2039.0
12.5°	2056.8	2059.8	2059.8
15°	2082.1	2083.6	2086.5
17.5°	2113.3	2114.8	2114.8
20°	2150.4	2149.0	2151.9
22.5°	2187.6	2187.6	2187.6
25°	2226.2	2226.2	2226.2
27.5°	2270.8	2270.8	2267.9
30°	2319.9	2319.9	2319.9
32.5°	2379.3	2380.8	2382.3
35°	2455.1	2458.1	2462.5
37.5°	2541.3	2548.7	2553.2
40°	2643.8	2646.8	2654.2
42.5°	2758.3	2767.2	2768.7
45°	2900.9	2915.8	2921.8
47.5°	3068.9	3089.7	3100.1
50°	3256.1	3279.9	3294.8
52.5°	3459.7	3498.4	3516.2
55°	3676.7	3743.6	3762.9
57.5°	3921.9	4012.6	4039.3
60°	4162.7	4290.5	4333.6
62.5°	4367.8	4547.6	4601.1
65°	4511.9	4728.9	4807.7
67.5°	4541.6	4798.7	4892.4
70°	4363.3	4626.4	4734.8
72.5°	3794.1	4031.9	4167.1
75°	2241.1	2412.0	2370.4
77.5°	1125.0	1174.1	1181.5
80°	493.4	523.1	535.0
82.5°	121.9	124.8	141.2
85°	16.3	19.3	17.8
87.5°	5.9	5.9	7.4
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: SP1-2511-595-4

Test Date: 01/09/2026

Luminaire Tested: GKO-PB1C-850-U-T4W

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

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2511-595-4
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 01/09/2026
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GKO-PB1C-850-U-T4W**
 Description: Gekko Wedge Wall Pack Fixture 1 SQ w/ T4W distribution

Spectral Parameters

CCT (K): 5005
 CIE u' : 0.2100
 CIE v' : 0.4867
 Duv: 0.0019
 CIE x: 0.3453
 CIE y: 0.3557
 CIE z: 0.2990
 Peak Wavelength (nm): 451
 Dominant Wavelength (nm): 570
 Purity: 10.34221
 R_f: 83.7
 R_g: 95.5

CRI (Ra): 83.1
 R1: 81.4
 R2: 89.2
 R3: 93.9
 R4: 82.4
 R5: 82.2
 R6: 84.5
 R7: 86.1
 R8: 65.5
 R9: 4.4
 R10: 74.2
 R11: 81.9
 R12: 62.2
 R13: 83.6
 R14: 97.0
 R15: 75.4



Test Conditions

Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.1

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Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	10/21/2025	10/21/2026
Sphere Thermometer	ONSET IN0085	10/21/2025	10/21/2026
Room Thermometer	ONSET IN0046	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 5000K 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	267	NR	620	453	NR	750	11	NR	880	0	NR
365	0	NR	495	305	NR	625	420	NR	755	10	NR	885	0	NR
370	0	NR	500	350	NR	630	387	NR	760	8	NR	890	0	NR
375	1	NR	505	386	NR	635	351	NR	765	7	NR	895	0	NR
380	1	NR	510	415	NR	640	317	NR	770	6	NR	900	0	NR
385	2	NR	515	441	NR	645	283	NR	775	5	NR	905	0	NR
390	3	NR	520	454	NR	650	252	NR	780	4	NR	910	0	NR
395	4	NR	525	466	NR	655	222	NR	785	4	NR	915	0	NR
400	6	NR	530	474	NR	660	194	NR	790	3	NR	920	0	NR
405	8	NR	535	484	NR	665	170	NR	795	3	NR	925	0	NR
410	12	NR	540	492	NR	670	147	NR	800	2	NR	930	0	NR
415	19	NR	545	502	NR	675	127	NR	805	2	NR	935	0	NR
420	33	NR	550	512	NR	680	109	NR	810	2	NR	940	0	NR
425	57	NR	555	522	NR	685	94	NR	815	2	NR	945	0	NR
430	101	NR	560	535	NR	690	80	NR	820	1	NR	950	0	NR
435	183	NR	565	546	NR	695	69	NR	825	1	NR	955	0	NR
440	325	NR	570	555	NR	700	58	NR	830	1	NR	960	0	NR
445	630	NR	575	562	NR	705	50	NR	835	1	NR	965	0	NR
450	982	NR	580	567	NR	710	42	NR	840	1	NR	970	0	NR
455	847	NR	585	567	NR	715	36	NR	845	1	NR	975	0	NR
460	545	NR	590	566	NR	720	31	NR	850	1	NR	980	0	NR
465	456	NR	595	561	NR	725	26	NR	855	0	NR	985	0	NR
470	349	NR	600	547	NR	730	22	NR	860	0	NR	990	0	NR
475	253	NR	605	530	NR	735	19	NR	865	0	NR	995	0	NR
480	235	NR	610	509	NR	740	16	NR	870	0	NR	1000	0	NR
485	247	NR	615	482	NR	745	13	NR	875	0	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.97

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	267	NR	620	453	NR	750	11	NR	880	0	NR
365	0	NR	495	305	NR	625	420	NR	755	10	NR	885	0	NR
370	0	NR	500	350	NR	630	387	NR	760	8	NR	890	0	NR
375	1	NR	505	386	NR	635	351	NR	765	7	NR	895	0	NR
380	1	NR	510	415	NR	640	317	NR	770	6	NR	900	0	NR
385	2	NR	515	441	NR	645	283	NR	775	5	NR	905	0	NR
390	3	NR	520	454	NR	650	252	NR	780	4	NR	910	0	NR
395	4	NR	525	466	NR	655	222	NR	785	4	NR	915	0	NR
400	6	NR	530	474	NR	660	194	NR	790	3	NR	920	0	NR
405	8	NR	535	484	NR	665	170	NR	795	3	NR	925	0	NR
410	12	NR	540	492	NR	670	147	NR	800	2	NR	930	0	NR
415	19	NR	545	502	NR	675	127	NR	805	2	NR	935	0	NR
420	33	NR	550	512	NR	680	109	NR	810	2	NR	940	0	NR
425	57	NR	555	522	NR	685	94	NR	815	2	NR	945	0	NR
430	101	NR	560	535	NR	690	80	NR	820	1	NR	950	0	NR
435	183	NR	565	546	NR	695	69	NR	825	1	NR	955	0	NR
440	325	NR	570	555	NR	700	58	NR	830	1	NR	960	0	NR
445	630	NR	575	562	NR	705	50	NR	835	1	NR	965	0	NR
450	982	NR	580	567	NR	710	42	NR	840	1	NR	970	0	NR
455	847	NR	585	567	NR	715	36	NR	845	1	NR	975	0	NR
460	545	NR	590	566	NR	720	31	NR	850	1	NR	980	0	NR
465	456	NR	595	561	NR	725	26	NR	855	0	NR	985	0	NR
470	349	NR	600	547	NR	730	22	NR	860	0	NR	990	0	NR
475	253	NR	605	530	NR	735	19	NR	865	0	NR	995	0	NR
480	235	NR	610	509	NR	740	16	NR	870	0	NR	1000	0	NR
485	247	NR	615	482	NR	745	13	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 4.21

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	267	NR	620	453	NR	750	11	NR	880	0	NR
365	0	NR	495	305	NR	625	420	NR	755	10	NR	885	0	NR
370	0	NR	500	350	NR	630	387	NR	760	8	NR	890	0	NR
375	1	NR	505	386	NR	635	351	NR	765	7	NR	895	0	NR
380	1	NR	510	415	NR	640	317	NR	770	6	NR	900	0	NR
385	2	NR	515	441	NR	645	283	NR	775	5	NR	905	0	NR
390	3	NR	520	454	NR	650	252	NR	780	4	NR	910	0	NR
395	4	NR	525	466	NR	655	222	NR	785	4	NR	915	0	NR
400	6	NR	530	474	NR	660	194	NR	790	3	NR	920	0	NR
405	8	NR	535	484	NR	665	170	NR	795	3	NR	925	0	NR
410	12	NR	540	492	NR	670	147	NR	800	2	NR	930	0	NR
415	19	NR	545	502	NR	675	127	NR	805	2	NR	935	0	NR
420	33	NR	550	512	NR	680	109	NR	810	2	NR	940	0	NR
425	57	NR	555	522	NR	685	94	NR	815	2	NR	945	0	NR
430	101	NR	560	535	NR	690	80	NR	820	1	NR	950	0	NR
435	183	NR	565	546	NR	695	69	NR	825	1	NR	955	0	NR
440	325	NR	570	555	NR	700	58	NR	830	1	NR	960	0	NR
445	630	NR	575	562	NR	705	50	NR	835	1	NR	965	0	NR
450	982	NR	580	567	NR	710	42	NR	840	1	NR	970	0	NR
455	847	NR	585	567	NR	715	36	NR	845	1	NR	975	0	NR
460	545	NR	590	566	NR	720	31	NR	850	1	NR	980	0	NR
465	456	NR	595	561	NR	725	26	NR	855	0	NR	985	0	NR
470	349	NR	600	547	NR	730	22	NR	860	0	NR	990	0	NR
475	253	NR	605	530	NR	735	19	NR	865	0	NR	995	0	NR
480	235	NR	610	509	NR	740	16	NR	870	0	NR	1000	0	NR
485	247	NR	615	482	NR	745	13	NR	875	0	NR			

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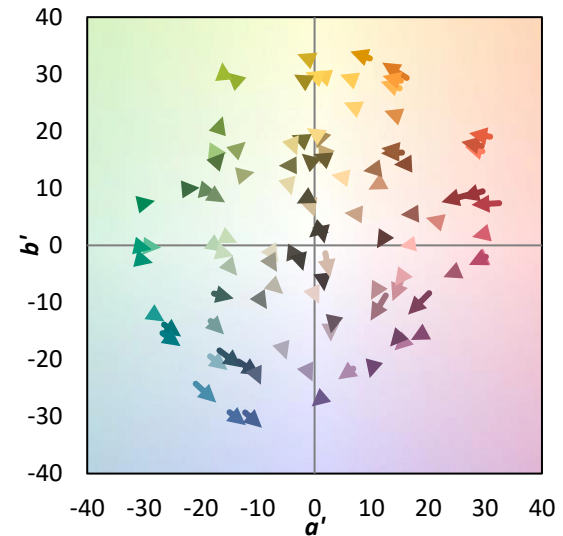
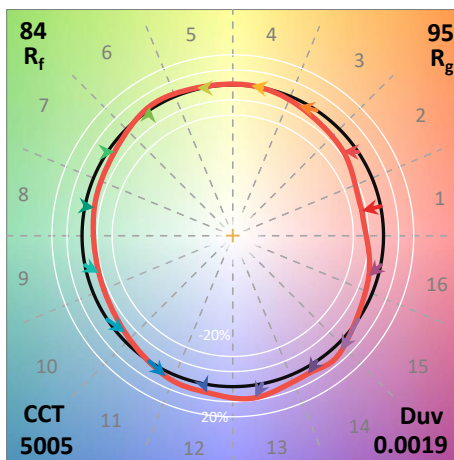
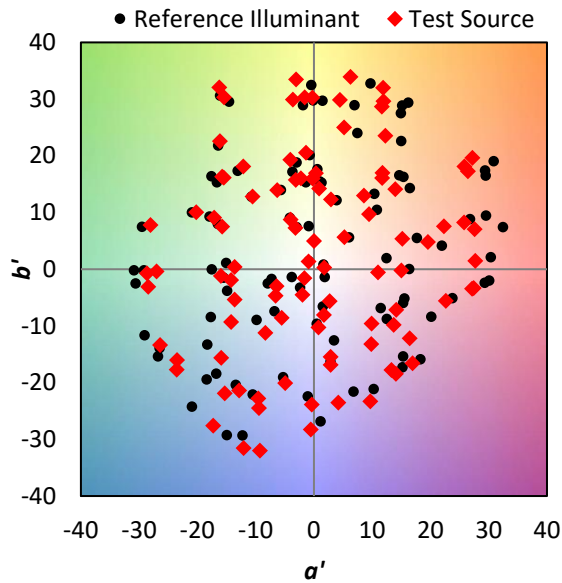
TM-30-18

Summary

$R_f = 83.7$
 $R_g = 95.5$
 $\text{CIE } R_a = 83.1$
 $R_9 = 4.4$

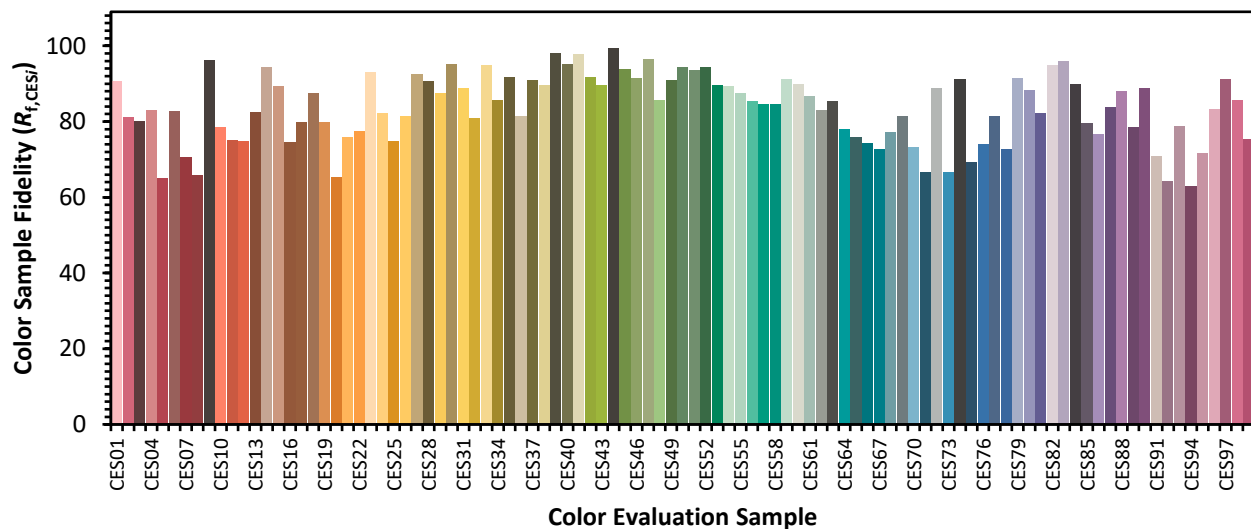


Color Vector Graphics



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

CES01 = 85	CES26 = 81	CES51 = 94	CES76 = 74
CES02 = 60	CES27 = 93	CES52 = 95	CES77 = 81
CES03 = 30	CES28 = 91	CES53 = 90	CES78 = 73
CES04 = 69	CES29 = 87	CES54 = 89	CES79 = 91
CES05 = 47	CES30 = 95	CES55 = 87	CES80 = 88
CES06 = 50	CES31 = 89	CES56 = 85	CES81 = 82
CES07 = 39	CES32 = 81	CES57 = 85	CES82 = 95
CES08 = 39	CES33 = 95	CES58 = 85	CES83 = 96
CES09 = 29	CES34 = 86	CES59 = 91	CES84 = 90
CES10 = 73	CES35 = 92	CES60 = 90	CES85 = 80
CES11 = 56	CES36 = 82	CES61 = 87	CES86 = 77
CES12 = 62	CES37 = 91	CES62 = 83	CES87 = 84
CES13 = 42	CES38 = 90	CES63 = 85	CES88 = 88
CES14 = 74	CES39 = 98	CES64 = 78	CES89 = 78
CES15 = 71	CES40 = 95	CES65 = 76	CES90 = 89
CES16 = 46	CES41 = 98	CES66 = 74	CES91 = 71
CES17 = 49	CES42 = 92	CES67 = 73	CES92 = 64
CES18 = 55	CES43 = 90	CES68 = 77	CES93 = 79
CES19 = 71	CES44 = 99	CES69 = 81	CES94 = 63
CES20 = 64	CES45 = 94	CES70 = 73	CES95 = 72
CES21 = 85	CES46 = 92	CES71 = 67	CES96 = 83
CES22 = 77	CES47 = 97	CES72 = 89	CES97 = 91
CES23 = 91	CES48 = 86	CES73 = 67	CES98 = 86
CES24 = 90	CES49 = 91	CES74 = 91	CES99 = 75
CES25 = 71	CES50 = 94	CES75 = 69	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)