

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: P1212028

Luminaire Tested: **GKO-PB2D-830-U-T1**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1212028
Test Lab: INNOVATION CENTER(G1)
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GKO-PB2D-830-U-T1
Description: GEKKO WALL PACK 10000LM PACKAGE 80CRI 3000K FIXTURE w/ TYPE I DISTRIBUTION OPTIC
Light Source: (20) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

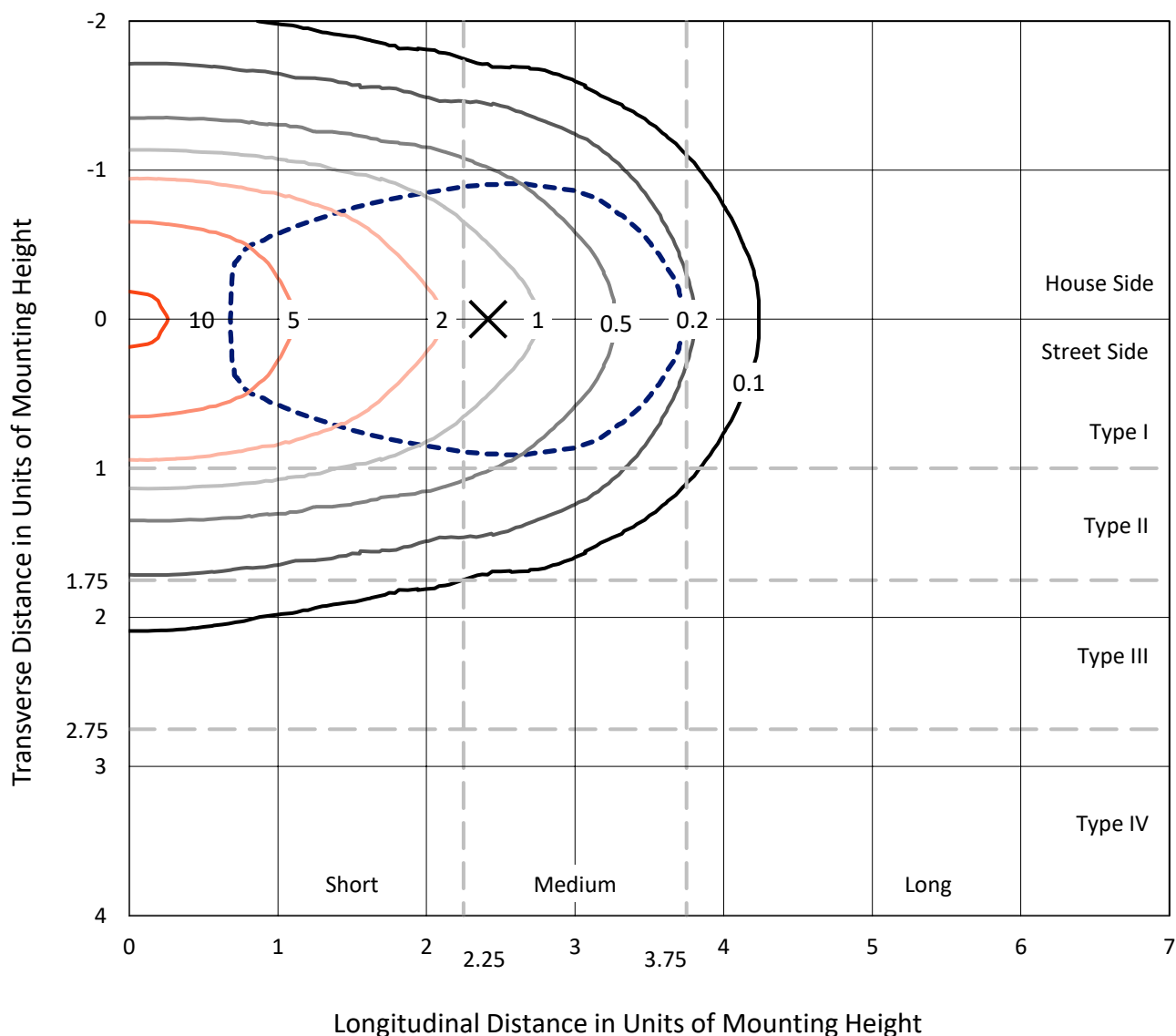
Lumens per Lamp: N/A
Luminaire Lumens: 9616.1 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 76.2
Input Voltage (V): 120
Input Current (Ain): 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

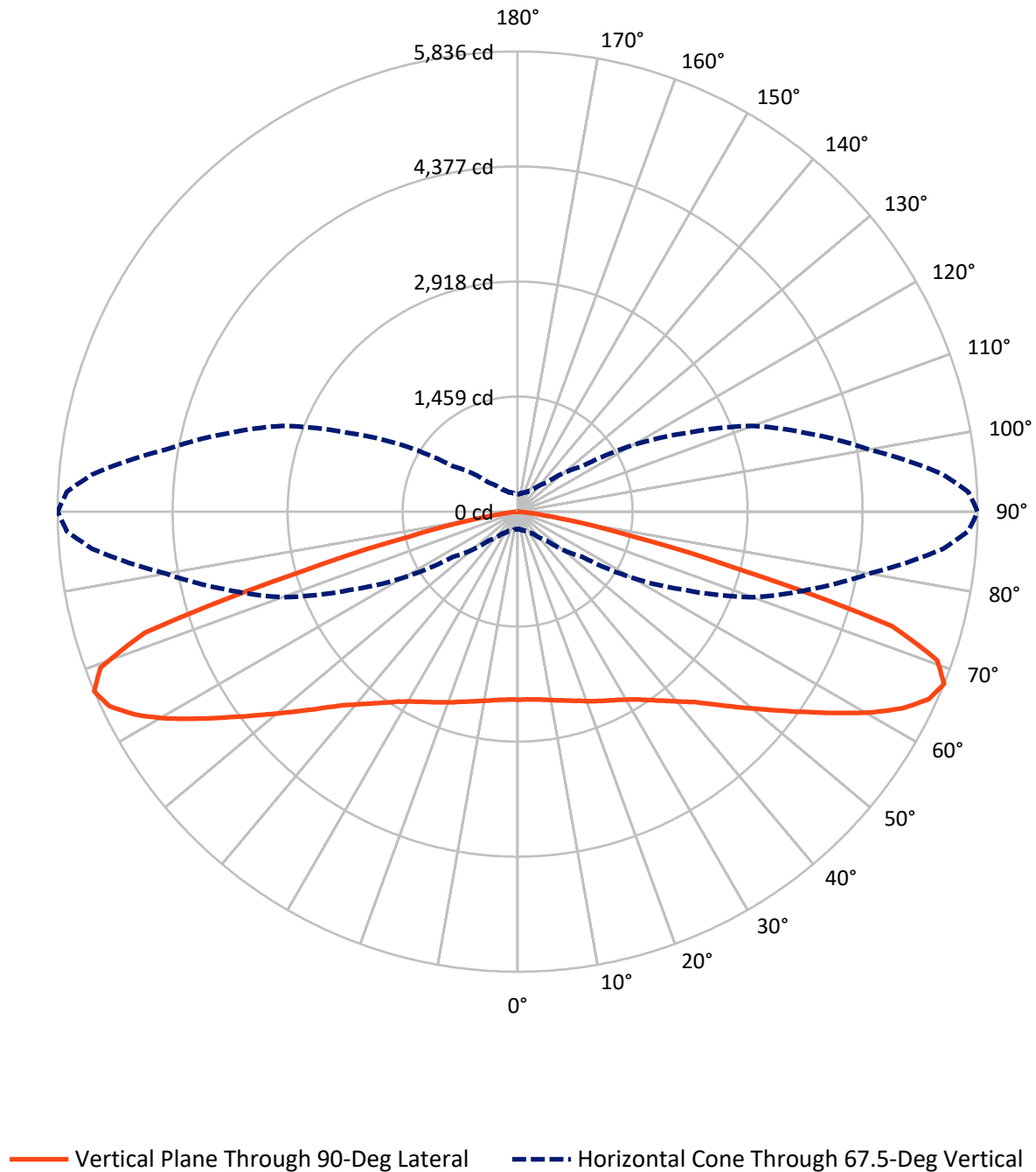
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.6 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	4808.0	0.0	4808.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4808.0	0.0	4808.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9616.1	0.0	9616.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.9	2.4
10°-20°	689.6	7.2
20°-30°	1146.7	11.9
30°-40°	1523.3	15.8
40°-50°	1717.4	17.9
50°-60°	1766.0	18.4
60°-70°	1668.9	17.4
70°-80°	817.0	8.5
80°-90°	58.4	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°	9616.1	100.0
0°-180°	9616.1	100.0



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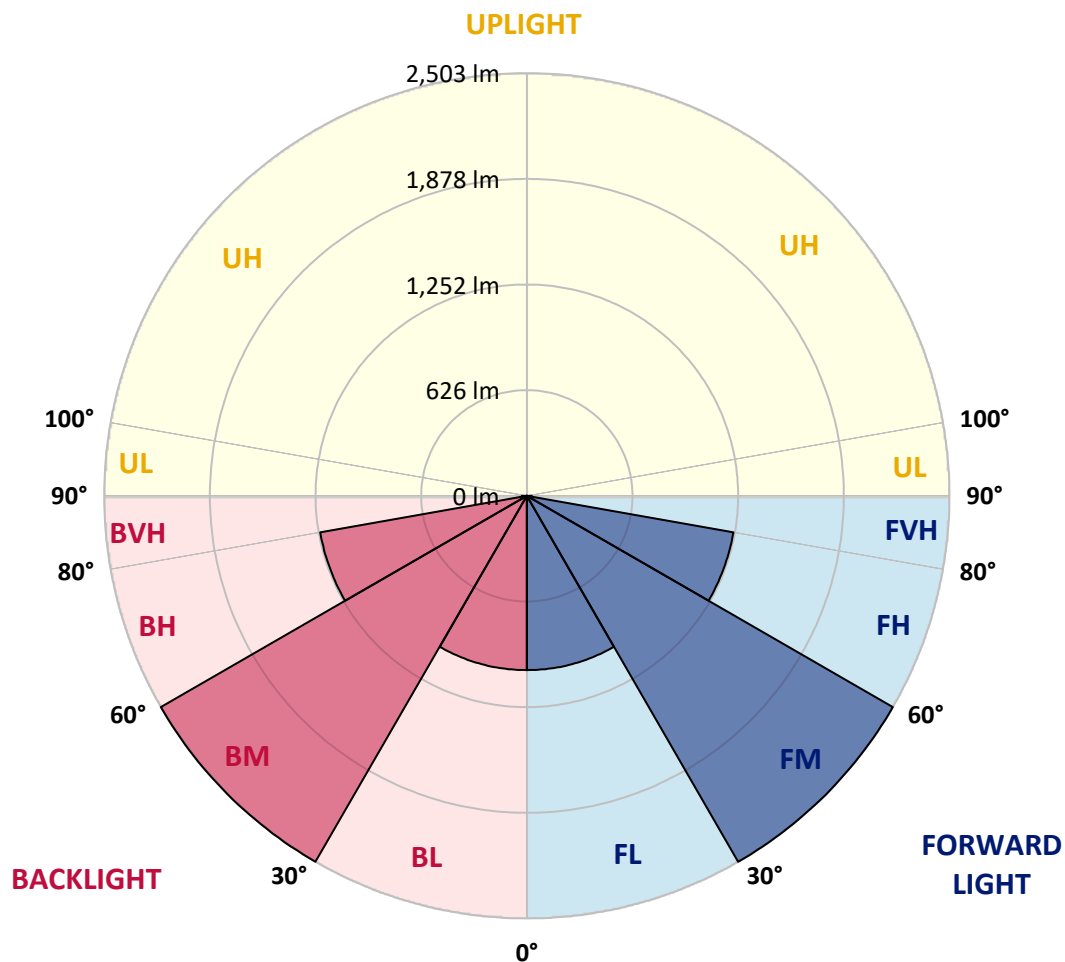
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1032.6	10.7			
FM	(30°-60°)	2503.3	26.0			
FH	(60°-80°)	1242.9	12.9			G1/1800
FVH	(80°-90°)	29.2	0.3			G1/100
BL	(0°-30°)	1032.6	10.7	B3/2500		
BM	(30°-60°)	2503.3	26.0	B3/5000		
BH	(60°-80°)	1242.9	12.9	B3/2500		G3/2500
BVH	(80°-90°)	29.2	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°	2386.1	2386.1	2386.1	2386.1	2386.1	2386.1	2386.1	2386.1	2386.1	2386.1	2386.1
2.5°	2387.9	2391.5	2384.4	2384.4	2387.9	2389.7	2389.7	2391.5	2387.9	2387.9	2386.1
5°	2387.9	2389.7	2386.1	2386.1	2389.7	2395.0	2393.2	2396.8	2396.8	2395.0	2395.0
7.5°	2386.1	2389.7	2386.1	2387.9	2393.2	2403.9	2403.9	2403.9	2407.4	2411.0	2411.0
10°	2384.4	2387.9	2389.7	2391.5	2398.6	2414.5	2418.1	2419.8	2425.1	2430.5	2430.5
12.5°	2375.5	2379.1	2384.4	2391.5	2403.9	2425.1	2432.2	2437.6	2446.4	2451.7	2455.3
15°	2363.1	2364.9	2377.3	2391.5	2411.0	2437.6	2451.7	2460.6	2473.0	2480.1	2485.4
17.5°	2345.4	2347.1	2366.6	2387.9	2416.3	2453.5	2476.6	2490.7	2503.1	2513.8	2520.9
20°	2322.3	2327.6	2350.7	2384.4	2425.1	2469.5	2503.1	2528.0	2540.4	2551.0	2561.7
22.5°	2294.0	2299.3	2327.6	2375.5	2434.0	2490.7	2535.1	2567.0	2582.9	2597.1	2609.5
25°	2251.4	2258.5	2292.2	2354.2	2437.6	2513.8	2570.5	2611.3	2625.5	2643.2	2653.8
27.5°	2185.8	2191.1	2231.9	2311.7	2426.9	2538.6	2611.3	2659.2	2675.1	2694.6	2705.2
30°	2083.0	2093.6	2143.3	2242.6	2400.3	2558.1	2659.2	2707.0	2726.5	2746.0	2760.2
32.5°	1950.0	1966.0	2021.0	2148.6	2348.9	2565.2	2710.6	2765.5	2790.3	2811.6	2829.3
35°	1785.2	1801.1	1866.7	2028.0	2267.4	2551.0	2762.0	2832.9	2863.0	2891.4	2912.7
37.5°	1597.3	1611.4	1691.2	1875.6	2150.4	2506.7	2802.7	2907.3	2948.1	2985.3	3013.7
40°	1407.6	1423.5	1510.4	1707.2	2008.5	2421.6	2820.5	2988.9	3040.3	3088.2	3123.6
42.5°	1201.9	1221.4	1318.9	1528.1	1843.7	2304.6	2806.3	3068.7	3132.5	3198.1	3251.3
45°	1019.3	1022.9	1129.3	1331.3	1662.9	2153.9	2756.7	3144.9	3231.8	3323.9	3400.2
47.5°	843.8	850.9	943.1	1143.4	1474.9	1983.7	2666.2	3205.2	3343.4	3462.2	3573.9
50°	687.8	696.7	780.0	959.1	1287.0	1797.6	2543.9	3240.6	3439.2	3600.5	3756.5
52.5°	560.2	570.8	640.0	797.7	1097.3	1602.6	2393.2	3245.9	3526.0	3738.8	3946.2
55°	466.2	473.3	526.5	652.4	914.7	1400.5	2221.3	3219.3	3582.8	3862.9	4139.4
57.5°	393.6	400.6	437.9	537.1	749.9	1193.1	2012.1	3157.3	3612.9	3971.0	4334.4
60°	342.1	347.5	374.1	445.0	616.9	998.1	1787.0	3047.4	3604.0	4038.4	4495.7
62.5°	304.9	306.7	329.7	379.4	508.8	813.7	1533.4	2882.5	3531.4	4047.2	4605.7
65°	271.2	273.0	287.2	322.6	418.4	654.2	1269.3	2655.6	3393.1	3985.2	4621.6
67.5°	219.8	223.4	244.6	271.2	343.9	517.6	999.8	2357.8	3176.8	3823.9	4531.2
70°	175.5	177.3	198.6	228.7	280.1	407.7	767.6	1957.1	2838.2	3561.5	4297.2
72.5°	131.2	134.7	154.2	184.4	228.7	315.6	554.9	1480.3	2269.1	3003.1	3742.3
75°	104.6	106.4	113.5	141.8	177.3	239.3	374.1	897.0	1366.8	1857.9	2294.0
77.5°	88.6	90.4	90.4	109.9	131.2	161.3	198.6	356.3	577.9	822.6	1090.3
80°	72.7	76.2	69.1	81.5	94.0	94.0	92.2	170.2	273.0	386.5	507.0
82.5°	53.2	56.7	53.2	56.7	56.7	51.4	47.9	63.8	86.9	118.8	129.4
85°	37.2	39.0	42.5	39.0	37.2	30.1	23.0	17.7	10.6	12.4	17.7
87.5°	24.8	30.1	35.5	33.7	28.4	23.0	16.0	10.6	5.3	7.1	7.1
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°	2386.1	2386.1	2386.1
2.5°	2387.9	2386.1	2384.4
5°	2396.8	2395.0	2393.2
7.5°	2409.2	2409.2	2409.2
10°	2428.7	2432.2	2432.2
12.5°	2453.5	2457.1	2457.1
15°	2483.6	2485.4	2489.0
17.5°	2520.9	2522.7	2522.7
20°	2565.2	2563.4	2567.0
22.5°	2609.5	2609.5	2609.5
25°	2655.6	2655.6	2655.6
27.5°	2708.8	2708.8	2705.2
30°	2767.3	2767.3	2767.3
32.5°	2838.2	2840.0	2841.7
35°	2928.6	2932.2	2937.5
37.5°	3031.4	3040.3	3045.6
40°	3153.8	3157.3	3166.2
42.5°	3290.3	3300.9	3302.7
45°	3460.4	3478.2	3485.3
47.5°	3660.8	3685.6	3698.0
50°	3884.1	3912.5	3930.2
52.5°	4127.0	4173.1	4194.4
55°	4385.8	4465.6	4488.7
57.5°	4678.3	4786.5	4818.4
60°	4965.5	5118.0	5169.4
62.5°	5210.2	5424.7	5488.5
65°	5382.1	5641.0	5734.9
67.5°	5417.6	5724.3	5836.0
70°	5204.8	5518.6	5648.0
72.5°	4525.9	4809.5	4970.8
75°	2673.3	2877.2	2827.6
77.5°	1342.0	1400.5	1409.4
80°	588.6	624.0	638.2
82.5°	145.4	148.9	168.4
85°	19.5	23.0	21.3
87.5°	7.1	7.1	8.9
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

REPORT NUMBER: SP3-2511-595-4

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



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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



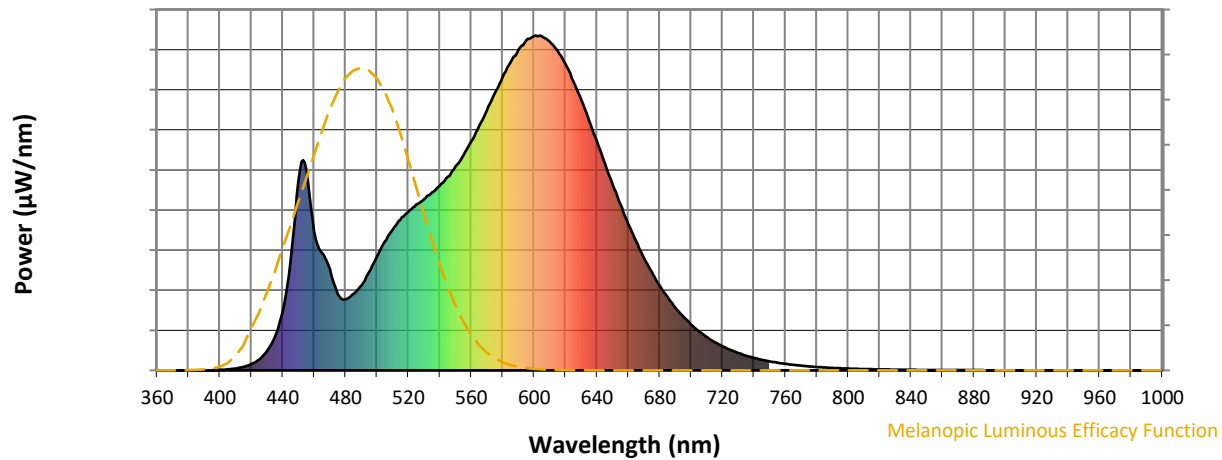
Scotopic Lumens: NR

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 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	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

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

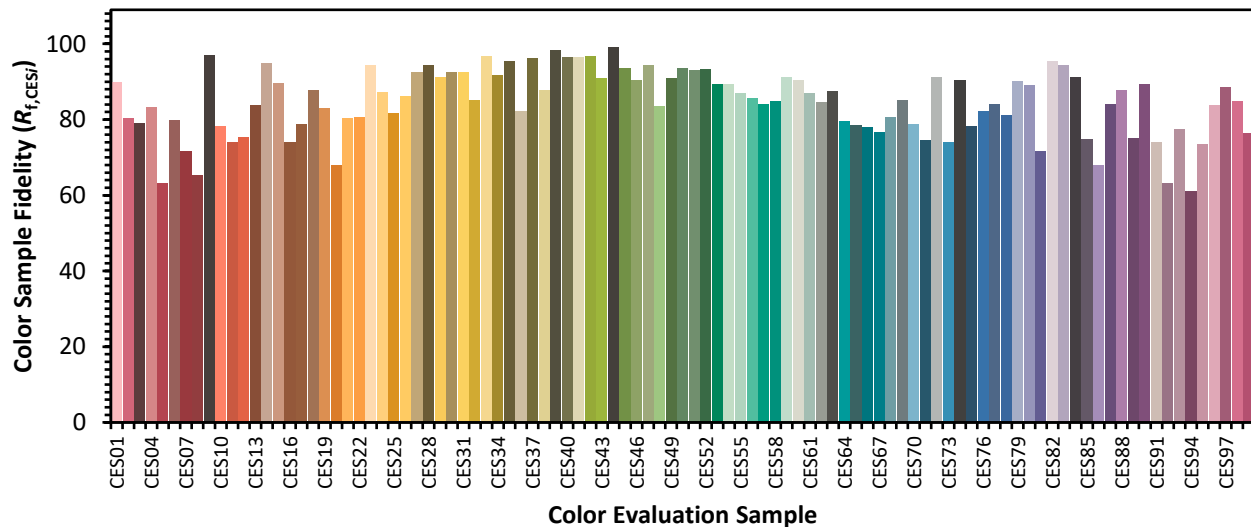


Color Vector Graphics

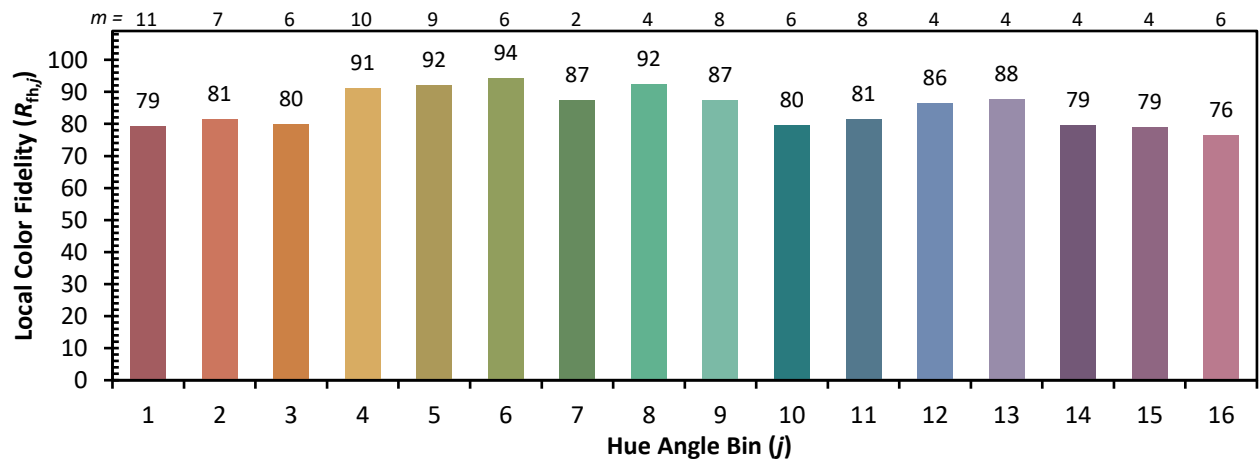


Individual Sample Fidelity Index ($R_{f,i}$)

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)