

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: P972428

Luminaire Tested: **GKO-PB2D-740-U-T1**

Issue Date: 02/27/2025



Test Information

Test Method: LM-79-08
Report Number: P972428
Test Lab: INNOVATION CENTER(G1)
Issue Date: 02/27/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GKO-PB2D-740-U-T1
Description: GEKKO WALL PACK 10000LM 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: 10915 lumens
Efficiency: N/A
Efficacy: 143.2 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

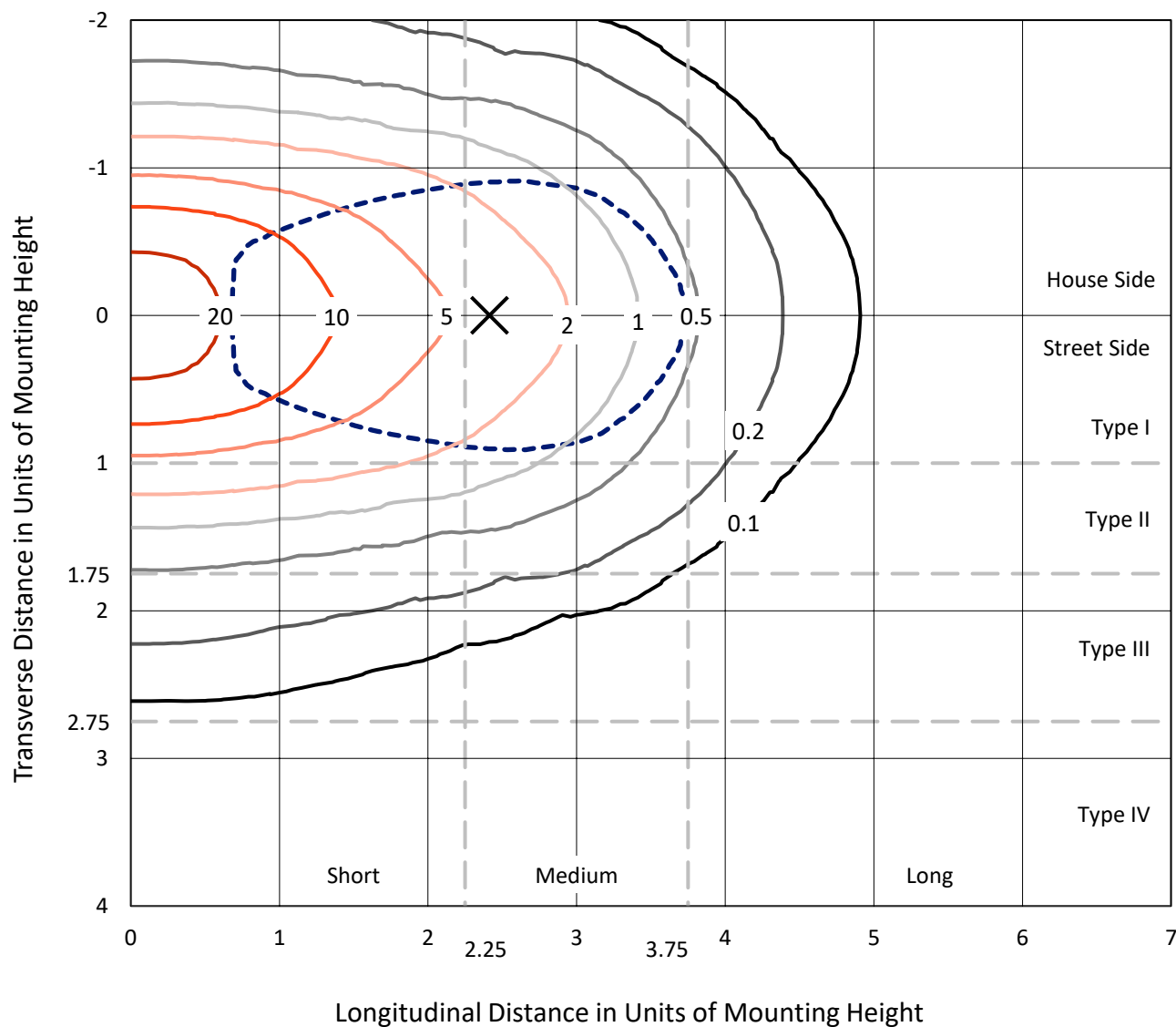
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

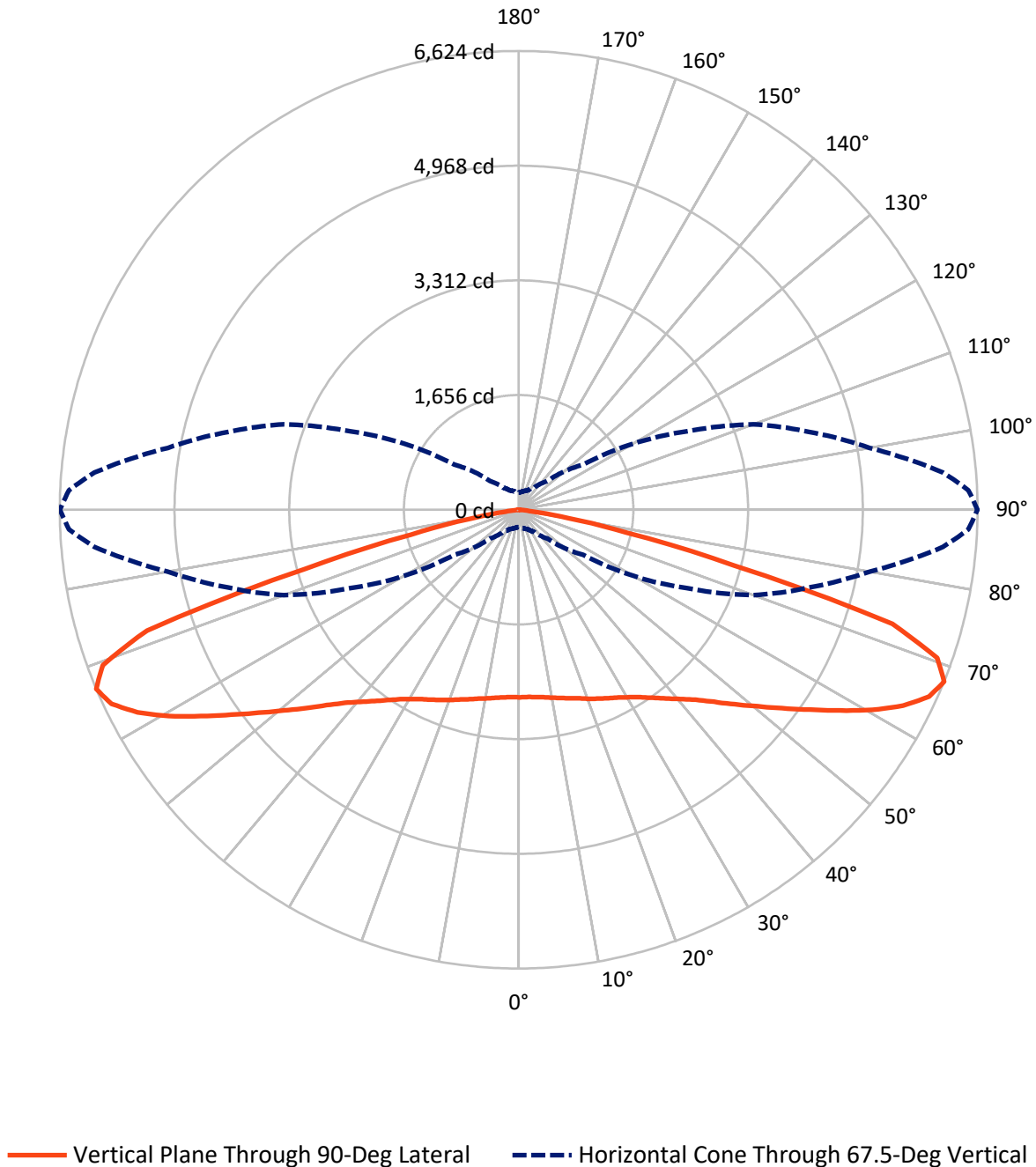


Based on 10 foot mounting height. Maximum calculated value = 27.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GKO-PB2D-740-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5457.5	0.0	5457.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5457.5	0.0	5457.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10915.0	0.0	10915.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.8	2.4
10°-20°	782.8	7.2
20°-30°	1301.6	11.9
30°-40°	1729.1	15.8
40°-50°	1949.4	17.9
50°-60°	2004.5	18.4
60°-70°	1894.3	17.4
70°-80°	927.3	8.5
80°-90°	66.3	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°	10915.0	100.0
0°-180°	10915.0	100.0

Coefficient of Utilization



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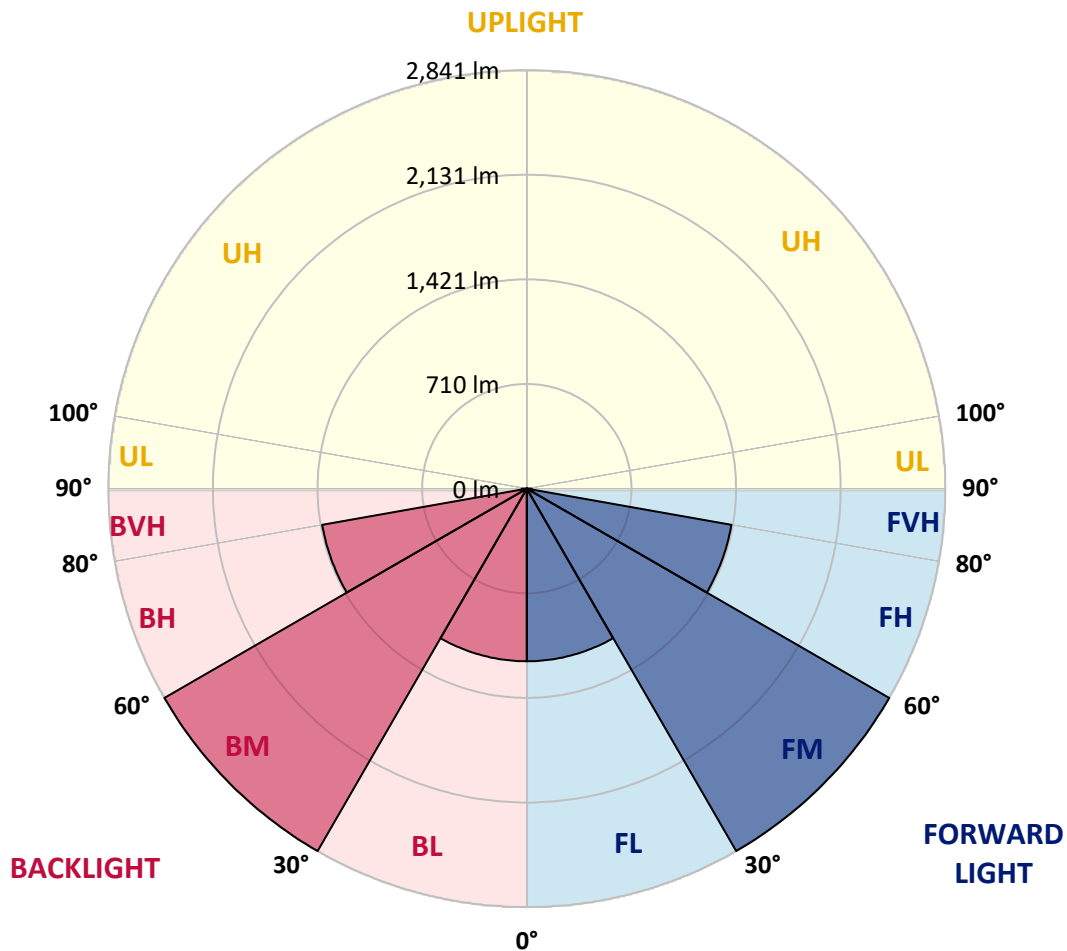
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1172.1	10.7			
FM	(30°-60°)	2841.5	26.0			
FH	(60°-80°)	1410.8	12.9			G1/1800
FVH	(80°-90°)	33.2	0.3			G1/100
BL	(0°-30°)	1172.1	10.7	B3/2500		
BM	(30°-60°)	2841.5	26.0	B3/5000		
BH	(60°-80°)	1410.8	12.9	B3/2500		G3/2500
BVH	(80°-90°)	33.2	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°	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5
2.5°	2710.5	2714.5	2706.4	2706.4	2710.5	2712.5	2712.5	2714.5	2710.5	2710.5	2708.5
5°	2710.5	2712.5	2708.5	2708.5	2712.5	2718.5	2716.5	2720.5	2720.5	2718.5	2718.5
7.5°	2708.5	2712.5	2708.5	2710.5	2716.5	2728.6	2728.6	2728.6	2732.6	2736.6	2736.6
10°	2706.4	2710.5	2712.5	2714.5	2722.5	2740.6	2744.7	2746.7	2752.7	2758.8	2758.8
12.5°	2696.4	2700.4	2706.4	2714.5	2728.6	2752.7	2760.8	2766.8	2776.9	2782.9	2786.9
15°	2682.3	2684.3	2698.4	2714.5	2736.6	2766.8	2782.9	2793.0	2807.1	2815.1	2821.1
17.5°	2662.2	2664.2	2686.3	2710.5	2742.7	2784.9	2811.1	2827.2	2841.3	2853.3	2861.4
20°	2636.0	2642.0	2668.2	2706.4	2752.7	2803.0	2841.3	2869.4	2883.5	2895.6	2907.7
22.5°	2603.8	2609.9	2642.0	2696.4	2762.8	2827.2	2877.5	2913.7	2931.8	2947.9	2962.0
25°	2555.5	2563.6	2601.8	2672.2	2766.8	2853.3	2917.7	2964.0	2980.1	3000.2	3012.3
27.5°	2481.1	2487.1	2533.4	2623.9	2754.7	2881.5	2964.0	3018.3	3036.4	3058.6	3070.7
30°	2364.4	2376.4	2432.8	2545.5	2724.6	2903.6	3018.3	3072.7	3094.8	3116.9	3133.0
32.5°	2213.4	2231.6	2293.9	2438.8	2666.2	2911.7	3076.7	3139.1	3167.2	3191.4	3211.5
35°	2026.3	2044.4	2118.9	2302.0	2573.6	2895.6	3135.0	3215.5	3249.7	3281.9	3306.1
37.5°	1813.0	1829.1	1919.7	2128.9	2440.8	2845.3	3181.3	3300.0	3346.3	3388.6	3420.8
40°	1597.7	1615.8	1714.4	1937.8	2279.8	2748.7	3201.4	3392.6	3451.0	3505.3	3545.5
42.5°	1364.3	1386.4	1497.1	1734.5	2092.7	2615.9	3185.3	3483.2	3555.6	3630.1	3690.4
45°	1157.0	1161.1	1281.8	1511.2	1887.5	2444.9	3129.0	3569.7	3668.3	3772.9	3859.4
47.5°	957.8	965.9	1070.5	1297.9	1674.2	2251.7	3026.4	3638.1	3795.1	3929.9	4056.6
50°	780.7	790.8	885.4	1088.6	1460.9	2040.4	2887.5	3678.3	3903.7	4086.8	4263.9
52.5°	635.9	647.9	726.4	905.5	1245.6	1819.1	2716.5	3684.4	4002.3	4243.8	4479.2
55°	529.2	537.3	597.6	740.5	1038.3	1589.7	2521.3	3654.2	4066.7	4384.6	4698.5
57.5°	446.7	454.8	497.0	609.7	851.2	1354.2	2283.9	3583.8	4100.9	4507.4	4919.9
60°	388.4	394.4	424.6	505.1	700.3	1132.9	2028.3	3459.0	4090.9	4583.8	5103.0
62.5°	346.1	348.1	374.3	430.6	577.5	923.6	1740.6	3271.9	4008.3	4593.9	5227.8
65°	307.9	309.9	326.0	366.2	474.9	742.5	1440.8	3014.3	3851.4	4523.5	5245.9
67.5°	249.5	253.5	277.7	307.9	390.4	587.6	1134.9	2676.3	3605.9	4340.4	5143.2
70°	199.2	201.2	225.4	259.6	317.9	462.8	871.3	2221.5	3221.6	4042.6	4877.6
72.5°	148.9	152.9	175.1	209.3	259.6	358.2	629.8	1680.2	2575.6	3408.7	4247.8
75°	118.7	120.7	128.8	161.0	201.2	271.7	424.6	1018.2	1551.4	2108.8	2603.8
77.5°	100.6	102.6	102.6	124.8	148.9	183.1	225.4	404.5	656.0	933.7	1237.5
80°	82.5	86.5	78.5	92.6	106.6	106.6	104.6	193.2	309.9	438.7	575.5
82.5°	60.4	64.4	60.4	64.4	64.4	58.4	54.3	72.4	98.6	134.8	146.9
85°	42.3	44.3	48.3	44.3	42.3	34.2	26.2	20.1	12.1	14.1	20.1
87.5°	28.2	34.2	40.2	38.2	32.2	26.2	18.1	12.1	6.0	8.0	8.0
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°	2708.5	2708.5	2708.5
2.5°	2710.5	2708.5	2706.4
5°	2720.5	2718.5	2716.5
7.5°	2734.6	2734.6	2734.6
10°	2756.7	2760.8	2760.8
12.5°	2784.9	2788.9	2788.9
15°	2819.1	2821.1	2825.2
17.5°	2861.4	2863.4	2863.4
20°	2911.7	2909.7	2913.7
22.5°	2962.0	2962.0	2962.0
25°	3014.3	3014.3	3014.3
27.5°	3074.7	3074.7	3070.7
30°	3141.1	3141.1	3141.1
32.5°	3221.6	3223.6	3225.6
35°	3324.2	3328.2	3334.3
37.5°	3440.9	3451.0	3457.0
40°	3579.7	3583.8	3593.8
42.5°	3734.7	3746.8	3748.8
45°	3927.9	3948.0	3956.0
47.5°	4155.2	4183.4	4197.5
50°	4408.8	4441.0	4461.1
52.5°	4684.5	4736.8	4760.9
55°	4978.2	5068.8	5094.9
57.5°	5310.3	5433.0	5469.2
60°	5636.2	5809.3	5867.6
62.5°	5913.9	6157.4	6229.8
65°	6109.1	6402.9	6509.5
67.5°	6149.4	6497.5	6624.2
70°	5907.9	6264.1	6410.9
72.5°	5137.2	5459.2	5642.3
75°	3034.4	3265.8	3209.5
77.5°	1523.3	1589.7	1599.7
80°	668.1	708.3	724.4
82.5°	165.0	169.0	191.2
85°	22.1	26.2	24.1
87.5°	8.0	8.0	10.1
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: SP2-2501-321-1

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

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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 4000K 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	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



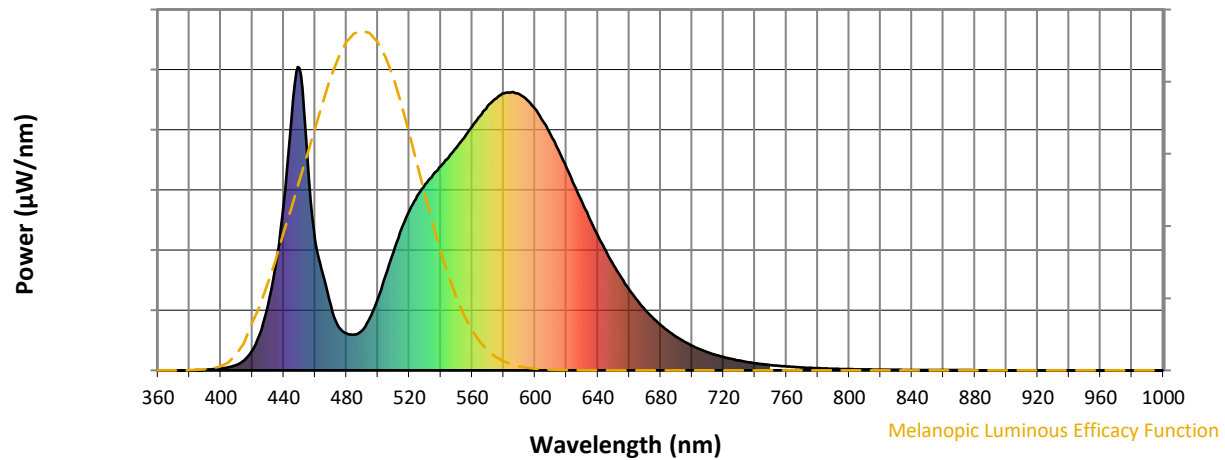
Scotopic Lumens: NR

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

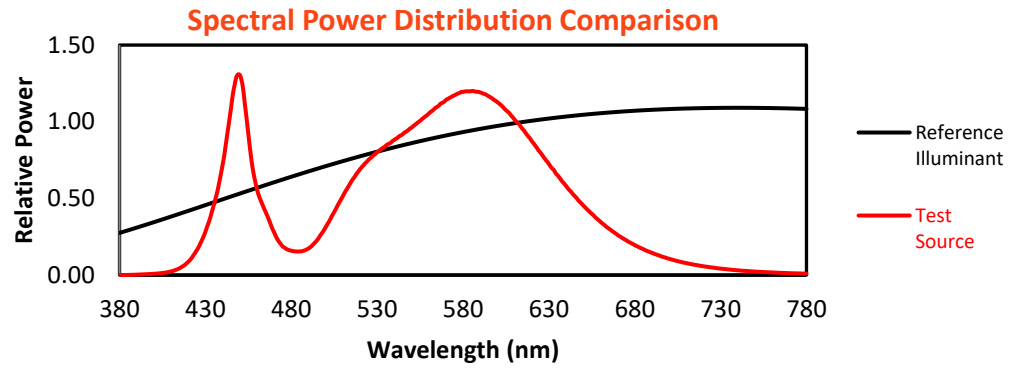
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	132	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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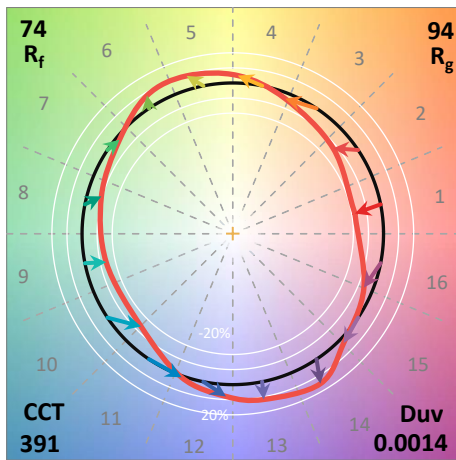
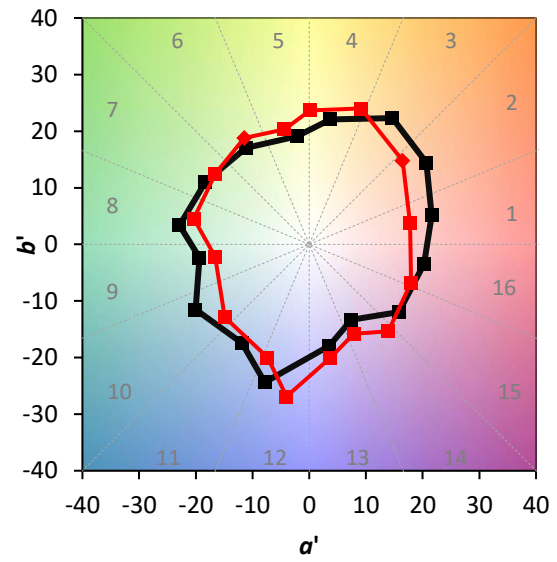
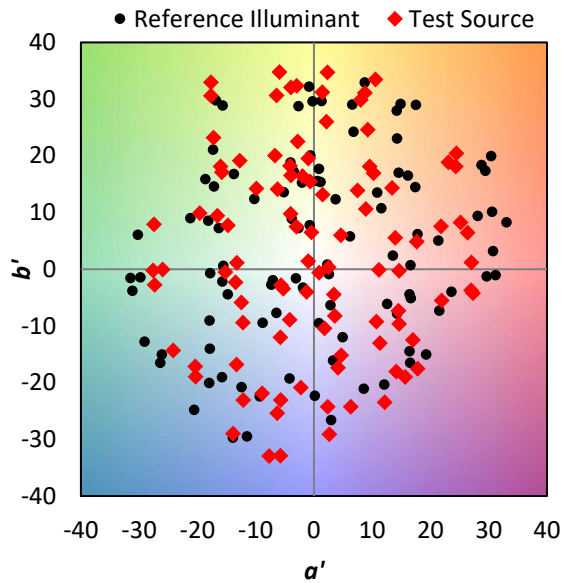
TM-30-18

Summary

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



Color Vector Graphics

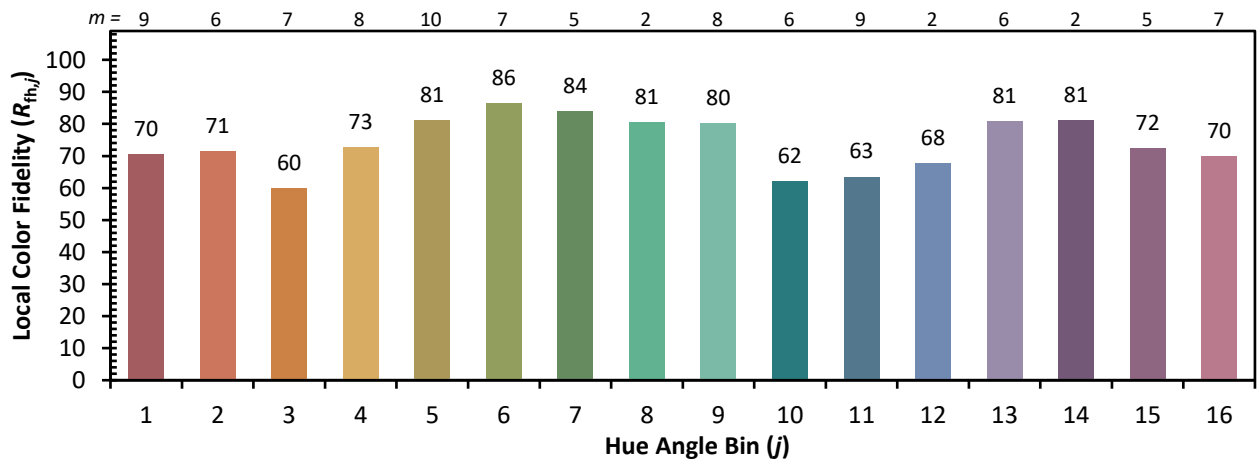
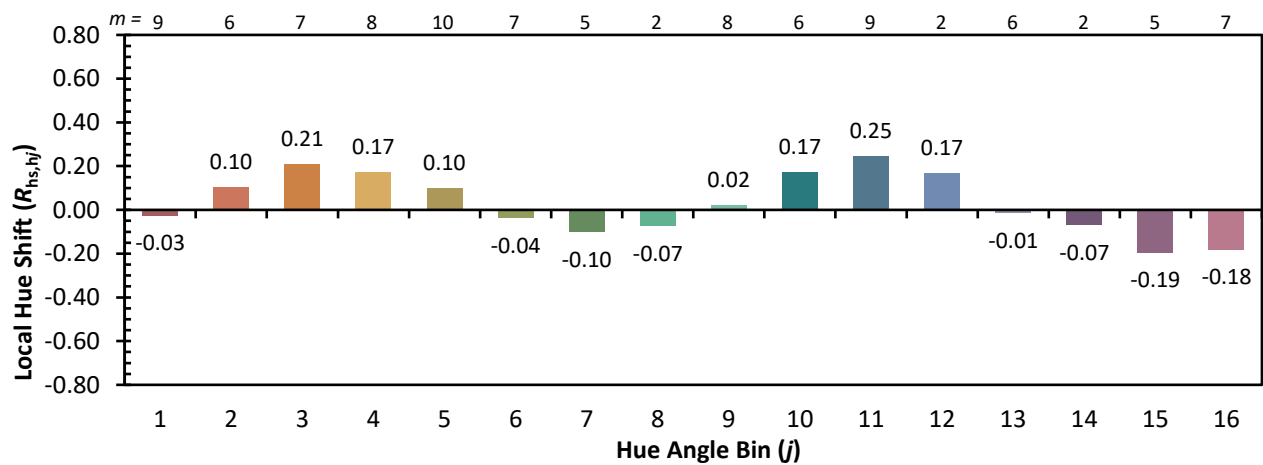


Individual Sample Fidelity Index ($R_{f,i}$)

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)