

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: P972396

Luminaire Tested: **GKO-PB1A-722-U-T1**

Issue Date: 02/27/2025

Test Information

Test Method: LM-79-08
Report Number: P972396
Test Lab: INNOVATION CENTER(G1)
Issue Date: 02/27/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GKO-PB1A-722-U-T1
Description: GEKKO WALL PACK 750LM 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: 671.5 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type I - Short
BUG Rating: B0 - U0 - G0

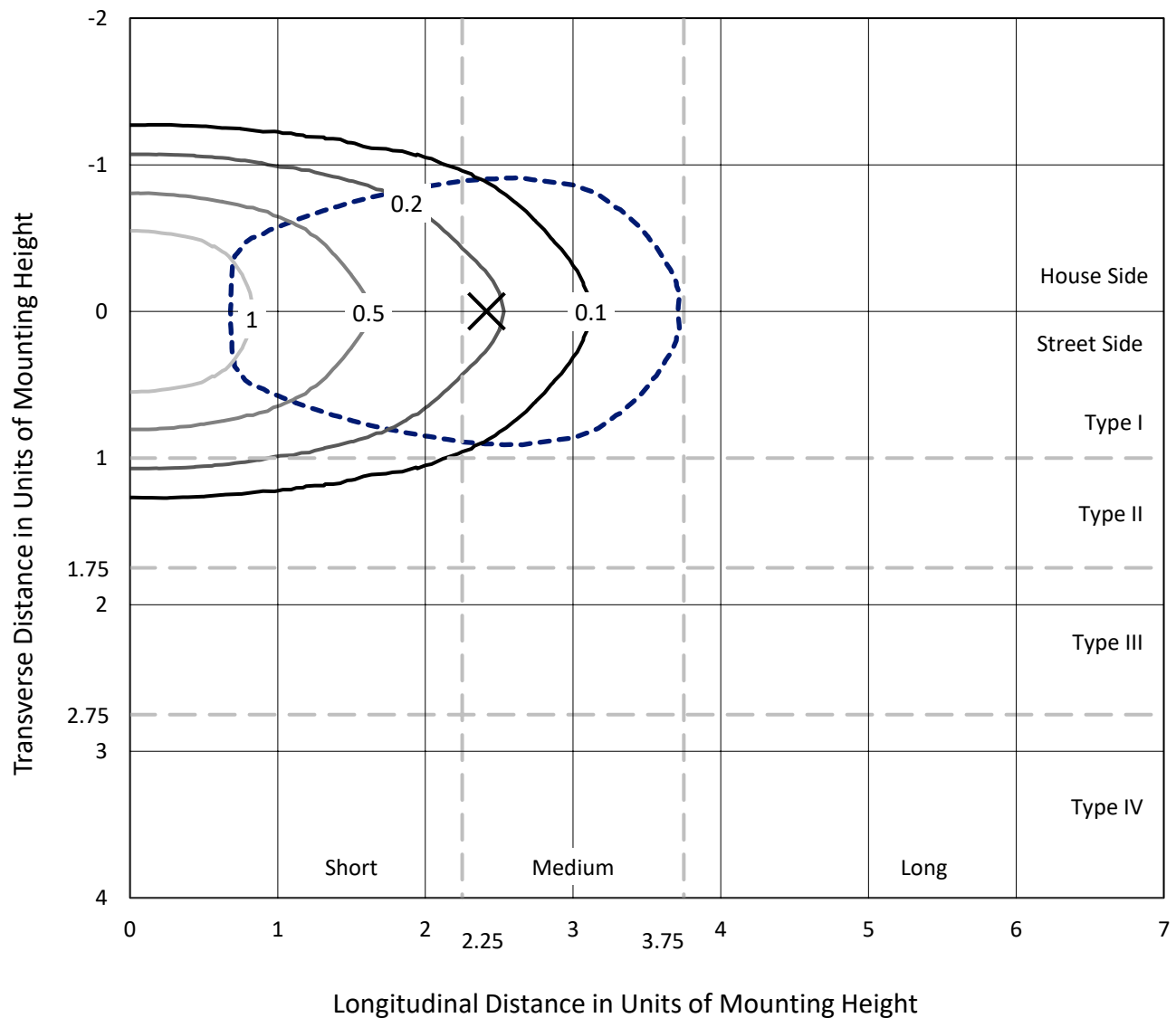
Input Watts (W): 4.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): 16%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P972396

CATALOG NUMBER: GKO-PB1A-722-U-T1

Iso-Footcandle Lines of Horizontal Illumination

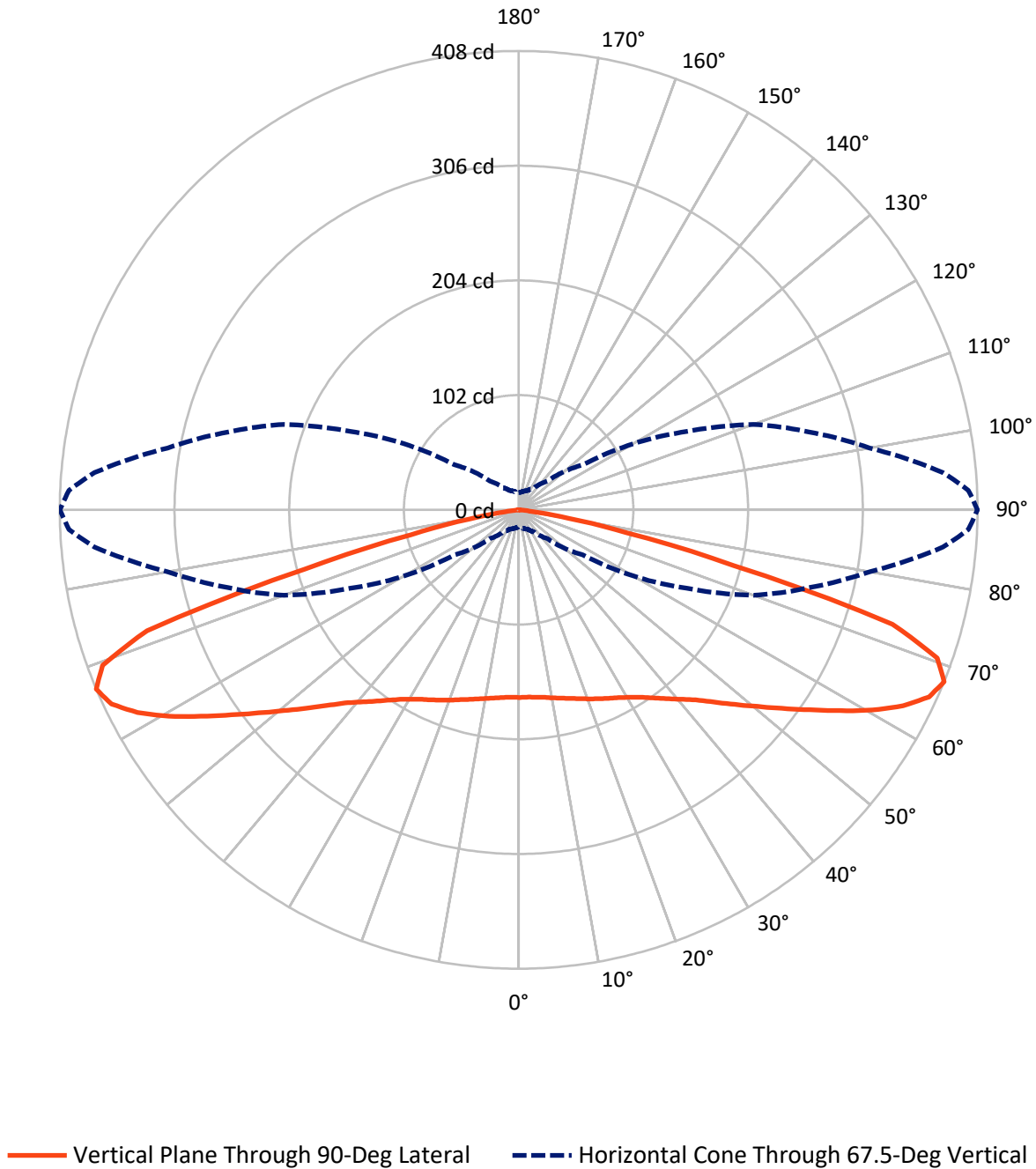
× Max cd
 - - - 1/2 Max cd



REPORT NUMBER: P972396

CATALOG NUMBER: GKO-PB1A-722-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P972396

CATALOG NUMBER: GKO-PB1A-722-U-T1

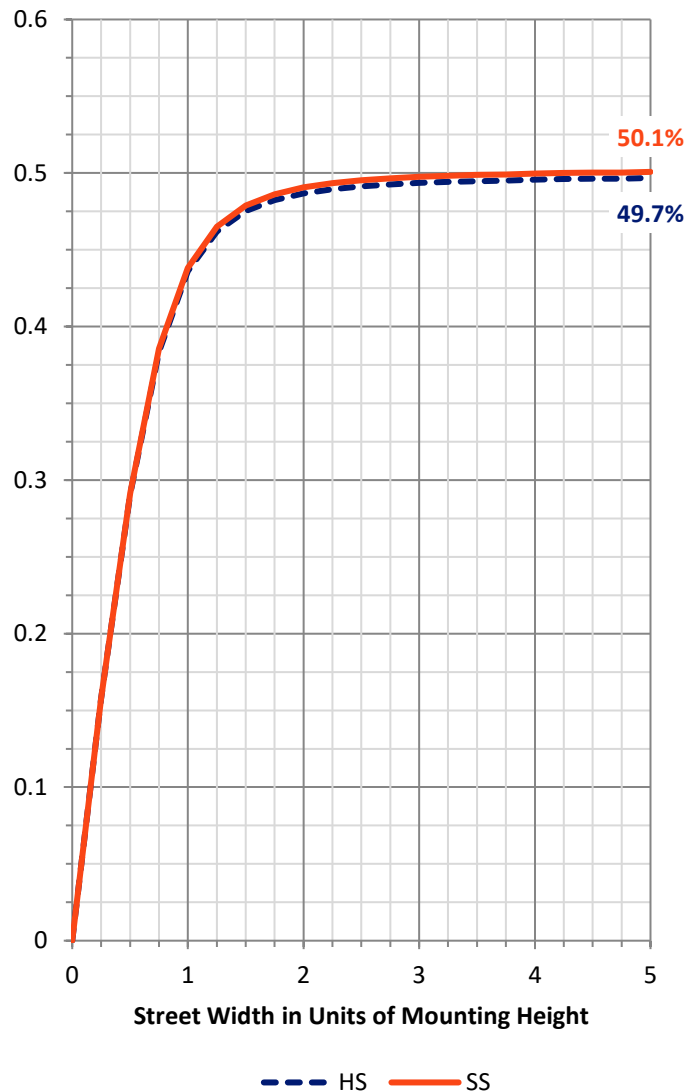
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	335.7	0.0	335.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	335.7	0.0	335.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	671.5	0.0	671.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.0	2.4
10°-20°	48.2	7.2
20°-30°	80.1	11.9
30°-40°	106.4	15.8
40°-50°	119.9	17.9
50°-60°	123.3	18.4
60°-70°	116.5	17.4
70°-80°	57.1	8.5
80°-90°	4.1	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°	671.5	100.0
0°-180°	671.5	100.0

Coefficient of Utilization



REPORT NUMBER: P972396

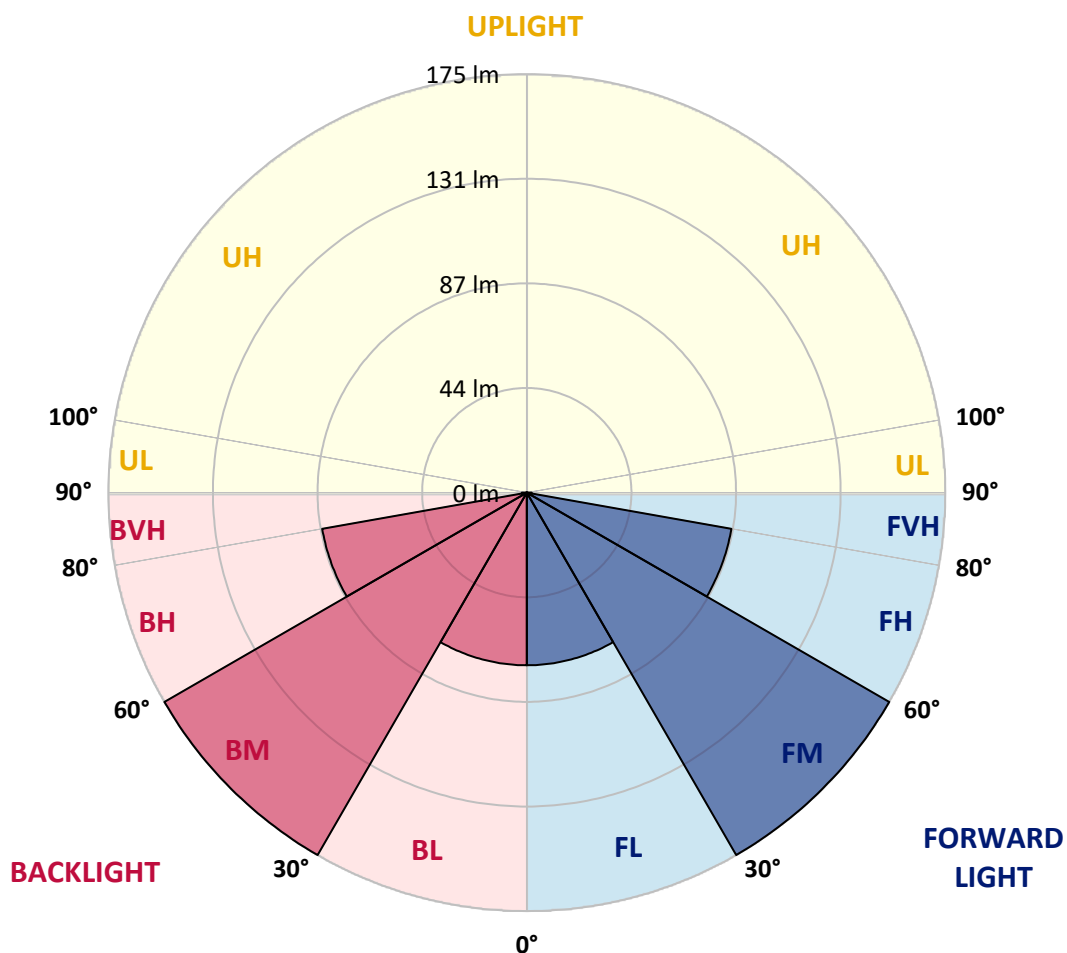
CATALOG NUMBER: GKO-PB1A-722-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	72.1	10.7			
FM	(30°-60°)	174.8	26.0			
FH	(60°-80°)	86.8	12.9			G0/660
FVH	(80°-90°)	2.0	0.3			G0/10
BL	(0°-30°)	72.1	10.7	B0/110		
BM	(30°-60°)	174.8	26.0	B0/220		
BH	(60°-80°)	86.8	12.9	B0/110		G0/110
BVH	(80°-90°)	2.0	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type I Short



REPORT NUMBER: P972396

CATALOG NUMBER: GKO-PB1A-722-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	166.6	166.6	166.6	166.6	166.6	166.6	166.6	166.6	166.6	166.6	166.6
2.5°	166.7	167.0	166.5	166.5	166.7	166.9	166.9	167.0	166.7	166.7	166.6
5°	166.7	166.9	166.6	166.6	166.9	167.2	167.1	167.4	167.4	167.2	167.2
7.5°	166.6	166.9	166.6	166.7	167.1	167.9	167.9	167.9	168.1	168.4	168.4
10°	166.5	166.7	166.9	167.0	167.5	168.6	168.8	169.0	169.3	169.7	169.7
12.5°	165.9	166.1	166.5	167.0	167.9	169.3	169.8	170.2	170.8	171.2	171.4
15°	165.0	165.1	166.0	167.0	168.4	170.2	171.2	171.8	172.7	173.2	173.6
17.5°	163.8	163.9	165.3	166.7	168.7	171.3	172.9	173.9	174.8	175.5	176.0
20°	162.2	162.5	164.1	166.5	169.3	172.4	174.8	176.5	177.4	178.1	178.9
22.5°	160.2	160.6	162.5	165.9	170.0	173.9	177.0	179.2	180.4	181.4	182.2
25°	157.2	157.7	160.1	164.4	170.2	175.5	179.5	182.3	183.3	184.6	185.3
27.5°	152.6	153.0	155.9	161.4	169.5	177.3	182.3	185.7	186.8	188.2	188.9
30°	145.5	146.2	149.7	156.6	167.6	178.6	185.7	189.0	190.4	191.8	192.7
32.5°	136.2	137.3	141.1	150.0	164.0	179.1	189.3	193.1	194.8	196.3	197.6
35°	124.7	125.8	130.4	141.6	158.3	178.1	192.9	197.8	199.9	201.9	203.4
37.5°	111.5	112.5	118.1	131.0	150.2	175.0	195.7	203.0	205.9	208.5	210.4
40°	98.3	99.4	105.5	119.2	140.3	169.1	197.0	208.7	212.3	215.6	218.1
42.5°	83.9	85.3	92.1	106.7	128.7	160.9	196.0	214.3	218.7	223.3	227.0
45°	71.2	71.4	78.9	93.0	116.1	150.4	192.5	219.6	225.7	232.1	237.4
47.5°	58.9	59.4	65.9	79.8	103.0	138.5	186.2	223.8	233.5	241.8	249.6
50°	48.0	48.6	54.5	67.0	89.9	125.5	177.6	226.3	240.2	251.4	262.3
52.5°	39.1	39.9	44.7	55.7	76.6	111.9	167.1	226.7	246.2	261.1	275.6
55°	32.6	33.1	36.8	45.6	63.9	97.8	155.1	224.8	250.2	269.7	289.1
57.5°	27.5	28.0	30.6	37.5	52.4	83.3	140.5	220.5	252.3	277.3	302.7
60°	23.9	24.3	26.1	31.1	43.1	69.7	124.8	212.8	251.7	282.0	313.9
62.5°	21.3	21.4	23.0	26.5	35.5	56.8	107.1	201.3	246.6	282.6	321.6
65°	18.9	19.1	20.1	22.5	29.2	45.7	88.6	185.4	236.9	278.3	322.7
67.5°	15.3	15.6	17.1	18.9	24.0	36.1	69.8	164.6	221.8	267.0	316.4
70°	12.3	12.4	13.9	16.0	19.6	28.5	53.6	136.7	198.2	248.7	300.1
72.5°	9.2	9.4	10.8	12.9	16.0	22.0	38.7	103.4	158.5	209.7	261.3
75°	7.3	7.4	7.9	9.9	12.4	16.7	26.1	62.6	95.4	129.7	160.2
77.5°	6.2	6.3	6.3	7.7	9.2	11.3	13.9	24.9	40.4	57.4	76.1
80°	5.1	5.3	4.8	5.7	6.6	6.6	6.4	11.9	19.1	27.0	35.4
82.5°	3.7	4.0	3.7	4.0	4.0	3.6	3.3	4.5	6.1	8.3	9.0
85°	2.6	2.7	3.0	2.7	2.6	2.1	1.6	1.2	0.7	0.9	1.2
87.5°	1.7	2.1	2.5	2.4	2.0	1.6	1.1	0.7	0.4	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P972396

CATALOG NUMBER: GKO-PB1A-722-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°
0°	166.6	166.6	166.6
2.5°	166.7	166.6	166.5
5°	167.4	167.2	167.1
7.5°	168.2	168.2	168.2
10°	169.6	169.8	169.8
12.5°	171.3	171.6	171.6
15°	173.4	173.6	173.8
17.5°	176.0	176.2	176.2
20°	179.1	179.0	179.2
22.5°	182.2	182.2	182.2
25°	185.4	185.4	185.4
27.5°	189.2	189.2	188.9
30°	193.2	193.2	193.2
32.5°	198.2	198.3	198.4
35°	204.5	204.7	205.1
37.5°	211.7	212.3	212.7
40°	220.2	220.5	221.1
42.5°	229.8	230.5	230.6
45°	241.6	242.9	243.4
47.5°	255.6	257.4	258.2
50°	271.2	273.2	274.4
52.5°	288.2	291.4	292.9
55°	306.3	311.8	313.4
57.5°	326.7	334.2	336.5
60°	346.7	357.4	361.0
62.5°	363.8	378.8	383.3
65°	375.8	393.9	400.5
67.5°	378.3	399.7	407.5
70°	363.4	385.4	394.4
72.5°	316.0	335.8	347.1
75°	186.7	200.9	197.4
77.5°	93.7	97.8	98.4
80°	41.1	43.6	44.6
82.5°	10.2	10.4	11.8
85°	1.4	1.6	1.5
87.5°	0.5	0.5	0.6
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

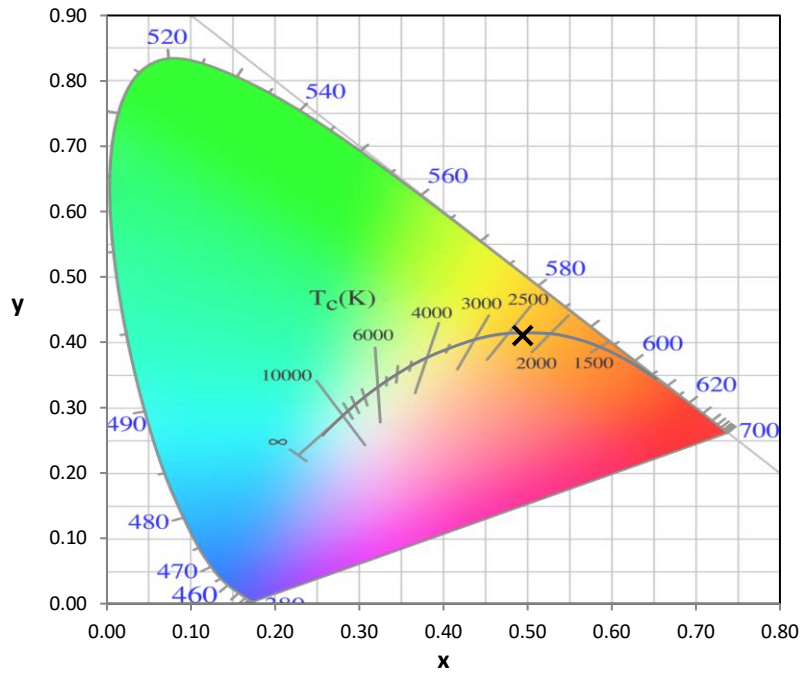
Stabilization Time: 40M
 Operation Time: 1H 40M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP2-2501-321-2

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

REPORT NUMBER: SP2-2501-321-2

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

REPORT NUMBER: SP2-2501-321-2

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	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			

REPORT NUMBER: SP2-2501-321-2

Scotopic Flux vs. Wavelength



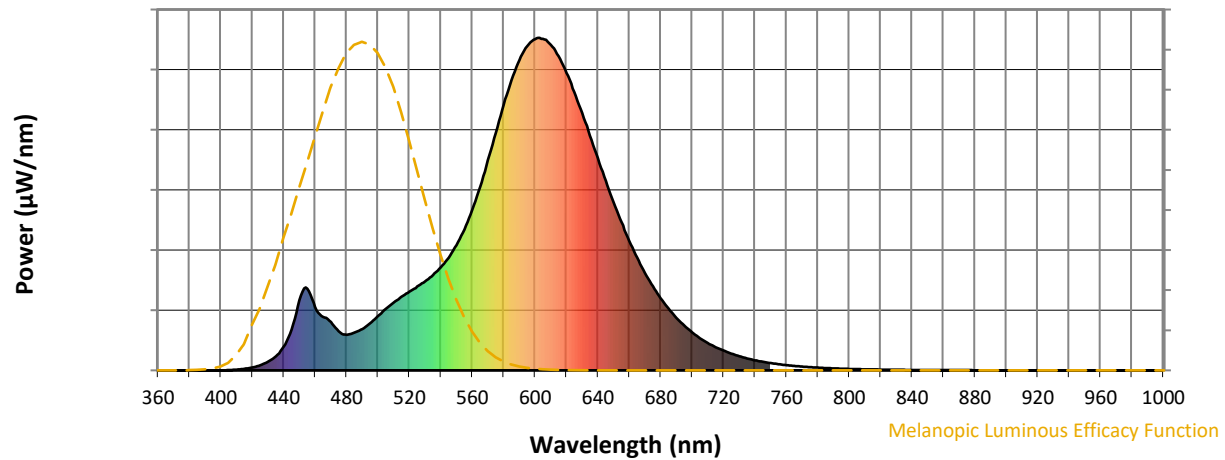
Scotopic Lumens: NR

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			

REPORT NUMBER: SP2-2501-321-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.75

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	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			

REPORT NUMBER: SP2-2501-321-2

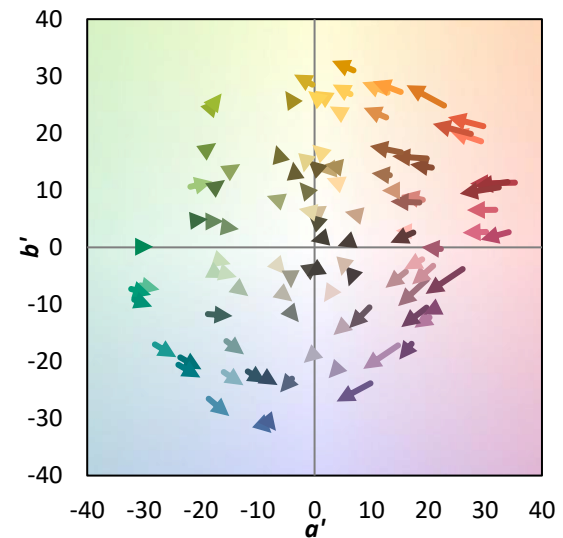
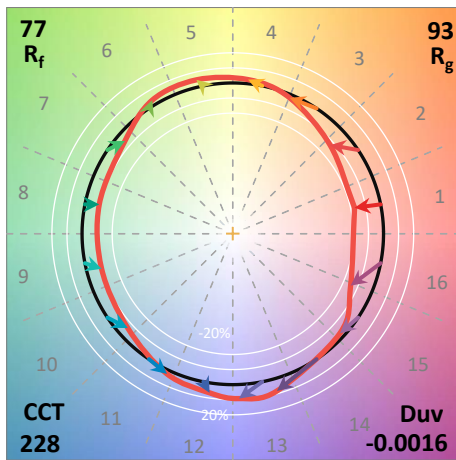
TM-30-18

Summary

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

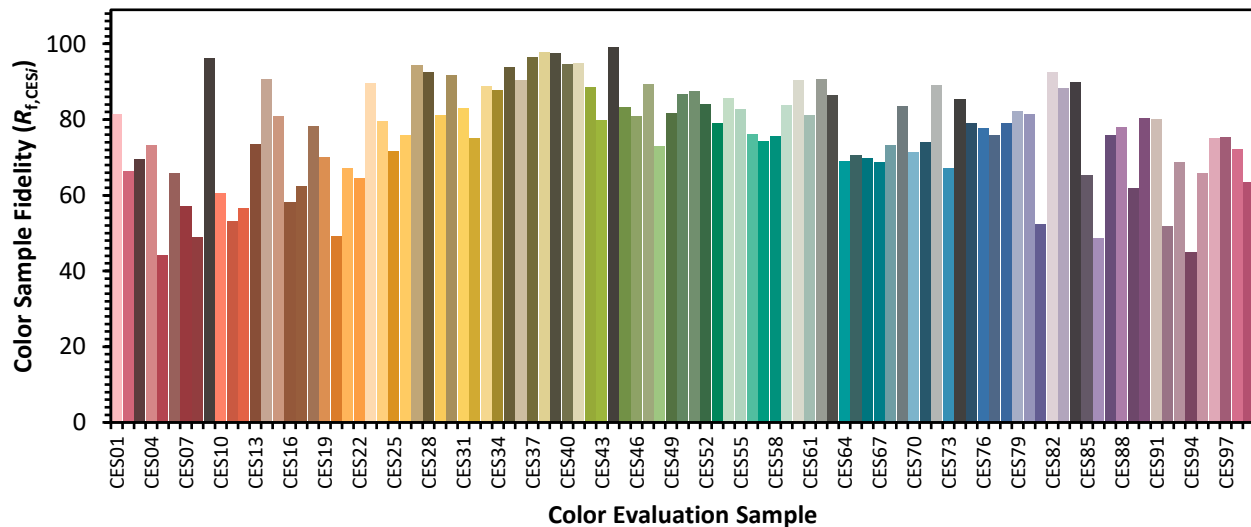


Color Vector Graphics

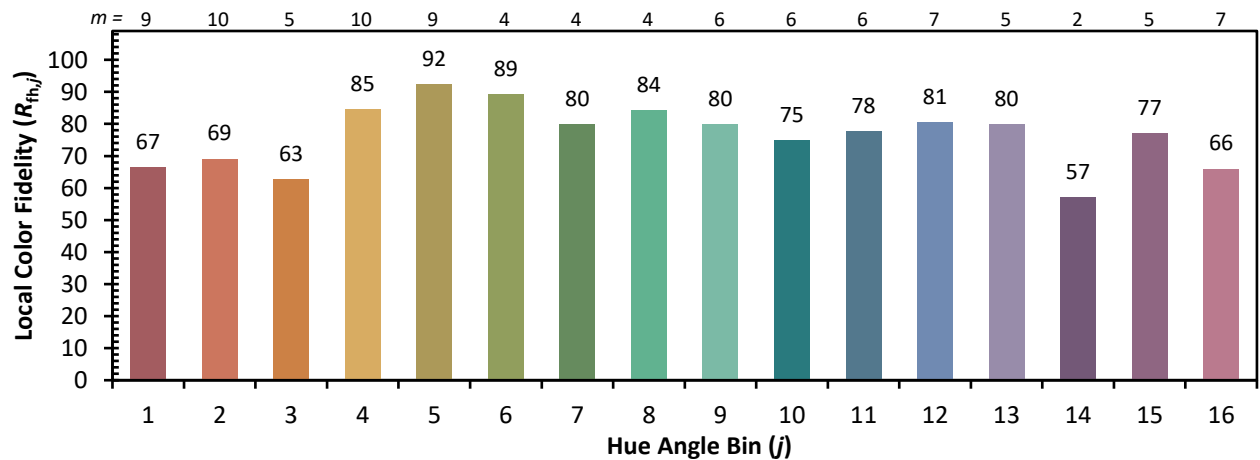


Individual Sample Fidelity Index ($R_{f,i}$)

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)