

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: P972417

Luminaire Tested: **GKO-PB2E-730-U-T1**

Issue Date: 02/27/2025

Test Information

Test Method: LM-79-08
Report Number: P972417
Test Lab: INNOVATION CENTER(G1)
Issue Date: 02/27/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GKO-PB2E-730-U-T1
Description: GEKKO WALL PACK 12000LM PACKAGE 70CRI 3000K FIXTURE w/ TYPE I DISTRIBUTION OPTIC
Light Source: (20) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12660.2 lumens
Efficiency: N/A
Efficacy: 120.9 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

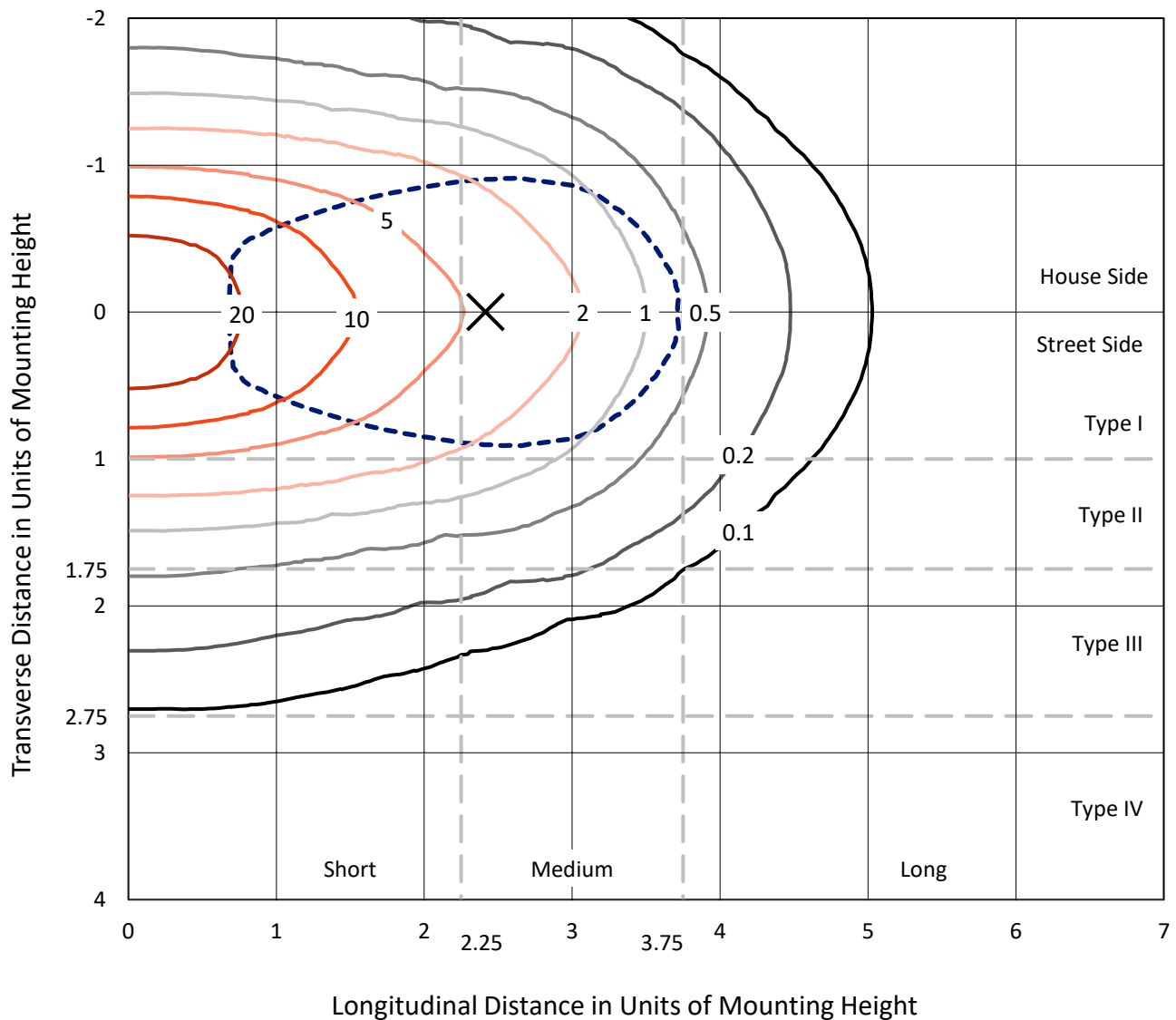
Input Watts (W): 104.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): 6%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P972417

CATALOG NUMBER: GKO-PB2E-730-U-T1

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

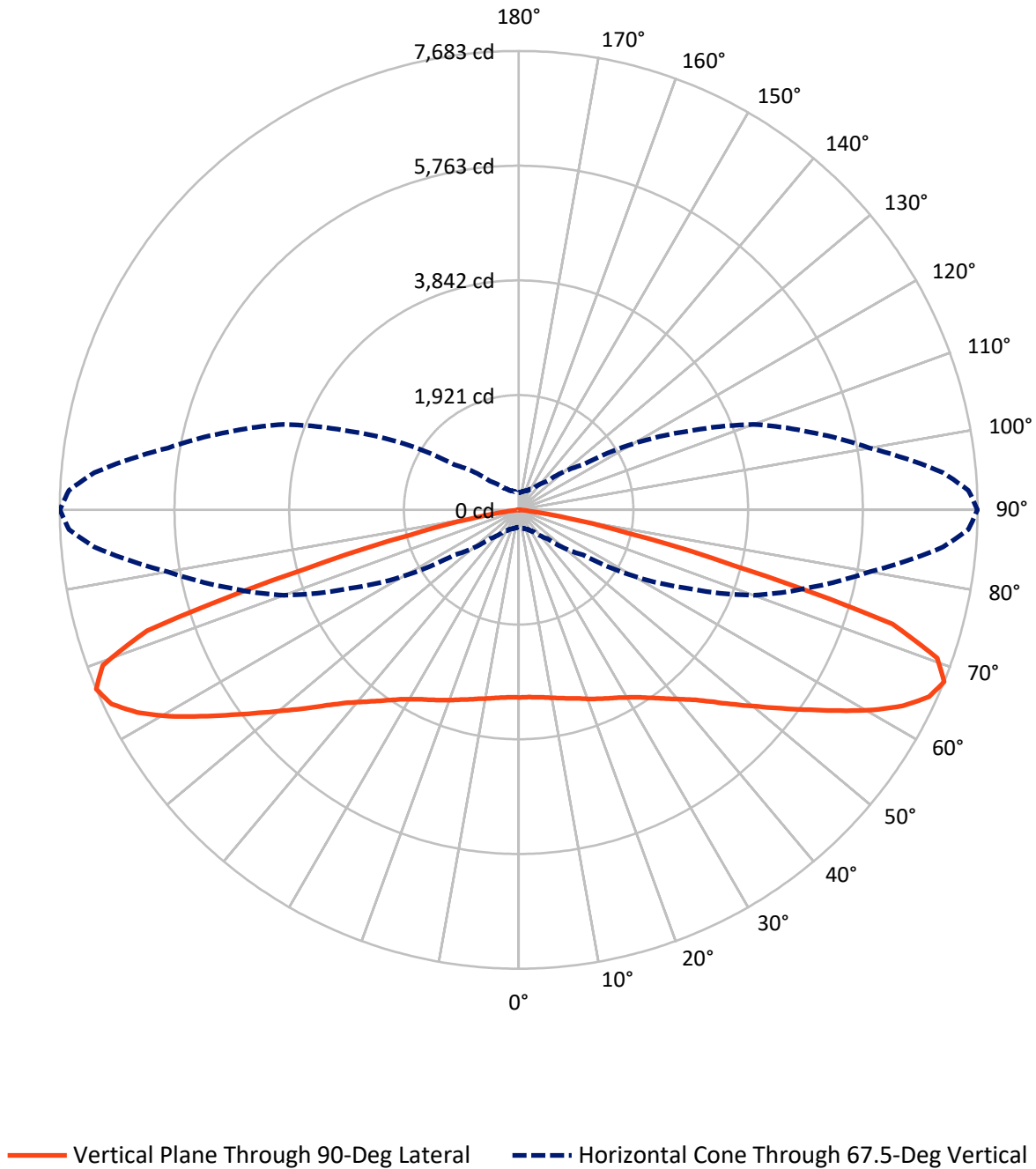


Based on 10 foot mounting height. Maximum calculated value = 31.4 fc
 Type I - Short - N/A

REPORT NUMBER: P972417

CATALOG NUMBER: GKO-PB2E-730-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P972417

CATALOG NUMBER: GKO-PB2E-730-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6330.1	0.0	6330.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6330.1	0.0	6330.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	12660.2	0.0	12660.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.3	2.4
10°-20°	907.9	7.2
20°-30°	1509.7	11.9
30°-40°	2005.6	15.8
40°-50°	2261.0	17.9
50°-60°	2325.0	18.4
60°-70°	2197.2	17.4
70°-80°	1075.6	8.5
80°-90°	76.9	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°	12660.2	100.0
0°-180°	12660.2	100.0

Coefficient of Utilization



REPORT NUMBER: P972417

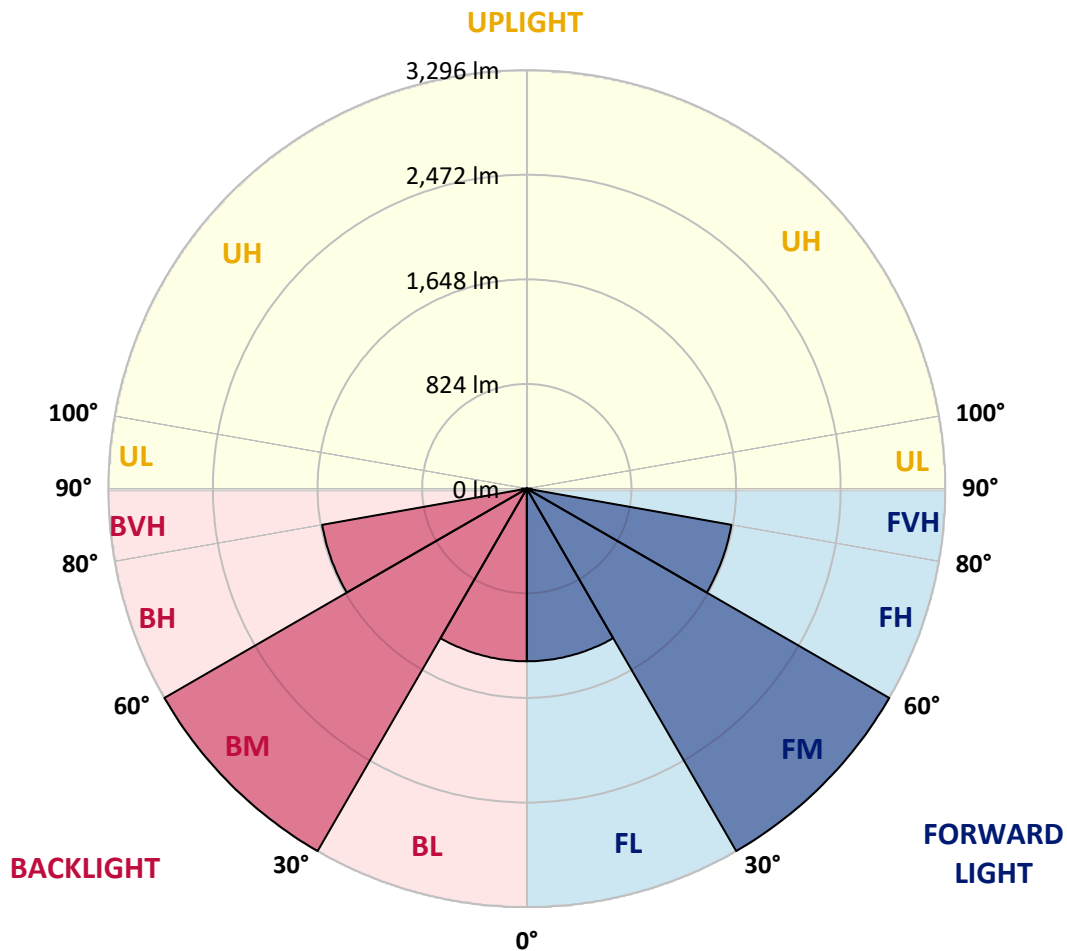
CATALOG NUMBER: GKO-PB2E-730-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1359.5	10.7			
FM	(30°-60°)	3295.8	26.0			
FH	(60°-80°)	1636.4	12.9			G1/1800
FVH	(80°-90°)	38.5	0.3			G1/100
BL	(0°-30°)	1359.5	10.7	B3/2500		
BM	(30°-60°)	3295.8	26.0	B3/5000		
BH	(60°-80°)	1636.4	12.9	B3/2500		G3/2500
BVH	(80°-90°)	38.5	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



REPORT NUMBER: P972417

CATALOG NUMBER: GKO-PB2E-730-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5
2.5°	3143.9	3148.5	3139.2	3139.2	3143.9	3146.2	3146.2	3148.5	3143.9	3143.9	3141.5
5°	3143.9	3146.2	3141.5	3141.5	3146.2	3153.2	3150.9	3155.5	3155.5	3153.2	3153.2
7.5°	3141.5	3146.2	3141.5	3143.9	3150.9	3164.9	3164.9	3164.9	3169.5	3174.2	3174.2
10°	3139.2	3143.9	3146.2	3148.5	3157.9	3178.9	3183.5	3185.9	3192.9	3199.9	3199.9
12.5°	3127.5	3132.2	3139.2	3148.5	3164.9	3192.9	3202.2	3209.2	3220.9	3227.9	3232.5
15°	3111.2	3113.5	3129.8	3148.5	3174.2	3209.2	3227.9	3239.5	3255.9	3265.2	3272.2
17.5°	3087.8	3090.2	3115.8	3143.9	3181.2	3230.2	3260.6	3279.2	3295.6	3309.6	3318.9
20°	3057.5	3064.5	3094.8	3139.2	3192.9	3251.2	3295.6	3328.2	3344.6	3358.6	3372.6
22.5°	3020.2	3027.2	3064.5	3127.5	3204.5	3279.2	3337.6	3379.6	3400.6	3419.3	3435.6
25°	2964.1	2973.5	3017.8	3099.5	3209.2	3309.6	3384.3	3437.9	3456.6	3479.9	3493.9
27.5°	2877.8	2884.8	2938.5	3043.5	3195.2	3342.2	3437.9	3501.0	3522.0	3547.6	3561.6
30°	2742.4	2756.4	2821.8	2952.5	3160.2	3367.9	3501.0	3564.0	3589.6	3615.3	3634.0
32.5°	2567.4	2588.4	2660.7	2828.8	3092.5	3377.3	3568.6	3641.0	3673.7	3701.7	3725.0
35°	2350.3	2371.3	2457.7	2670.1	2985.1	3358.6	3636.3	3729.7	3769.4	3806.7	3834.7
37.5°	2102.9	2121.6	2226.6	2469.3	2831.1	3300.2	3690.0	3827.7	3881.4	3930.4	3967.7
40°	1853.2	1874.2	1988.5	2247.6	2644.4	3188.2	3713.3	3935.1	4002.8	4065.8	4112.4
42.5°	1582.4	1608.1	1736.5	2011.9	2427.3	3034.2	3694.7	4040.1	4124.1	4210.5	4280.5
45°	1342.0	1346.7	1486.7	1752.8	2189.3	2835.8	3629.3	4140.5	4254.8	4376.2	4476.5
47.5°	1111.0	1120.3	1241.7	1505.4	1941.9	2611.7	3510.3	4219.8	4401.9	4558.2	4705.3
50°	905.6	917.2	1026.9	1262.7	1694.5	2366.6	3349.2	4266.5	4527.9	4740.3	4945.7
52.5°	737.5	751.5	842.6	1050.3	1444.7	2109.9	3150.9	4273.5	4642.3	4922.3	5195.4
55°	613.8	623.2	693.2	858.9	1204.3	1843.8	2924.5	4238.5	4716.9	5085.7	5449.8
57.5°	518.1	527.5	576.5	707.2	987.3	1570.8	2649.1	4156.8	4756.6	5228.1	5706.5
60°	450.5	457.5	492.5	585.8	812.2	1314.0	2352.6	4012.1	4745.0	5316.8	5918.9
62.5°	401.4	403.8	434.1	499.5	669.8	1071.3	2018.9	3795.0	4649.3	5328.4	6063.6
65°	357.1	359.4	378.1	424.8	550.8	861.2	1671.1	3496.3	4467.2	5246.8	6084.7
67.5°	289.4	294.1	322.1	357.1	452.8	681.5	1316.4	3104.2	4182.5	5034.4	5965.6
70°	231.1	233.4	261.4	301.1	368.8	536.8	1010.6	2576.7	3736.7	4688.9	5657.5
72.5°	172.7	177.4	203.1	242.7	301.1	415.4	730.5	1948.9	2987.5	3953.7	4927.0
75°	137.7	140.0	149.4	186.7	233.4	315.1	492.5	1181.0	1799.5	2446.0	3020.2
77.5°	116.7	119.0	119.0	144.7	172.7	212.4	261.4	469.1	760.9	1083.0	1435.4
80°	95.7	100.4	91.0	107.4	123.7	123.7	121.4	224.1	359.4	508.8	667.5
82.5°	70.0	74.7	70.0	74.7	74.7	67.7	63.0	84.0	114.4	156.4	170.4
85°	49.0	51.3	56.0	51.3	49.0	39.7	30.3	23.3	14.0	16.3	23.3
87.5°	32.7	39.7	46.7	44.3	37.3	30.3	21.0	14.0	7.0	9.3	9.3
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: P972417

CATALOG NUMBER: GKO-PB2E-730-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°
0°	3141.5	3141.5	3141.5
2.5°	3143.9	3141.5	3139.2
5°	3155.5	3153.2	3150.9
7.5°	3171.9	3171.9	3171.9
10°	3197.5	3202.2	3202.2
12.5°	3230.2	3234.9	3234.9
15°	3269.9	3272.2	3276.9
17.5°	3318.9	3321.2	3321.2
20°	3377.3	3374.9	3379.6
22.5°	3435.6	3435.6	3435.6
25°	3496.3	3496.3	3496.3
27.5°	3566.3	3566.3	3561.6
30°	3643.3	3643.3	3643.3
32.5°	3736.7	3739.0	3741.3
35°	3855.7	3860.4	3867.4
37.5°	3991.1	4002.8	4009.8
40°	4152.1	4156.8	4168.5
42.5°	4331.8	4345.8	4348.2
45°	4555.9	4579.2	4588.6
47.5°	4819.6	4852.3	4868.7
50°	5113.7	5151.1	5174.4
52.5°	5433.5	5494.2	5522.2
55°	5774.2	5879.3	5909.6
57.5°	6159.3	6301.7	6343.7
60°	6537.4	6738.2	6805.8
62.5°	6859.5	7141.9	7226.0
65°	7085.9	7426.7	7550.4
67.5°	7132.6	7536.4	7683.4
70°	6852.5	7265.6	7436.0
72.5°	5958.6	6332.1	6544.4
75°	3519.6	3788.0	3722.7
77.5°	1766.8	1843.8	1855.5
80°	774.9	821.6	840.2
82.5°	191.4	196.1	221.7
85°	25.7	30.3	28.0
87.5°	9.3	9.3	11.7
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: SP2-2501-321-4

Test Date: 04/10/2025

Luminaire Tested: GKO-PB1E-730-U-T4W

Data in this report applies to families of products including GKO-PB1E-730-U-T4W

Test Information

Test Method: LM-79-2019
 Report Number: SP2-2501-321-4
 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-730-U-T4W**
 Description: Gekko Wedge Wall Pack Fixture 1 SQ w/ T4W distribution

Spectral Parameters

CCT (K): 3072
 CIE u' : 0.2482
 CIE v' : 0.5193
 Duv: -0.0004
 CIE x: 0.4313
 CIE y: 0.4010
 CIE z: 0.1677
 Peak Wavelength (nm): 593
 Dominant Wavelength (nm): 582
 Purity: 49.8225
 R_f: 74.7
 R_g: 94.2

CRI (Ra): 71.7
 R1: 68.1
 R2: 82.1
 R3: 93.4
 R4: 67.3
 R5: 67.2
 R6: 74.9
 R7: 77.5
 R8: 43.4
 R9: -33.9
 R10: 58.6
 R11: 62.0
 R12: 48.5
 R13: 70.7
 R14: 96.4
 R15: 60.2



Test Conditions

Stabilization Time: 30M
 Operation Time: 1H 30M
 Sphere Temperature (°C): 25.7

REPORT NUMBER: SP2-2501-321-4

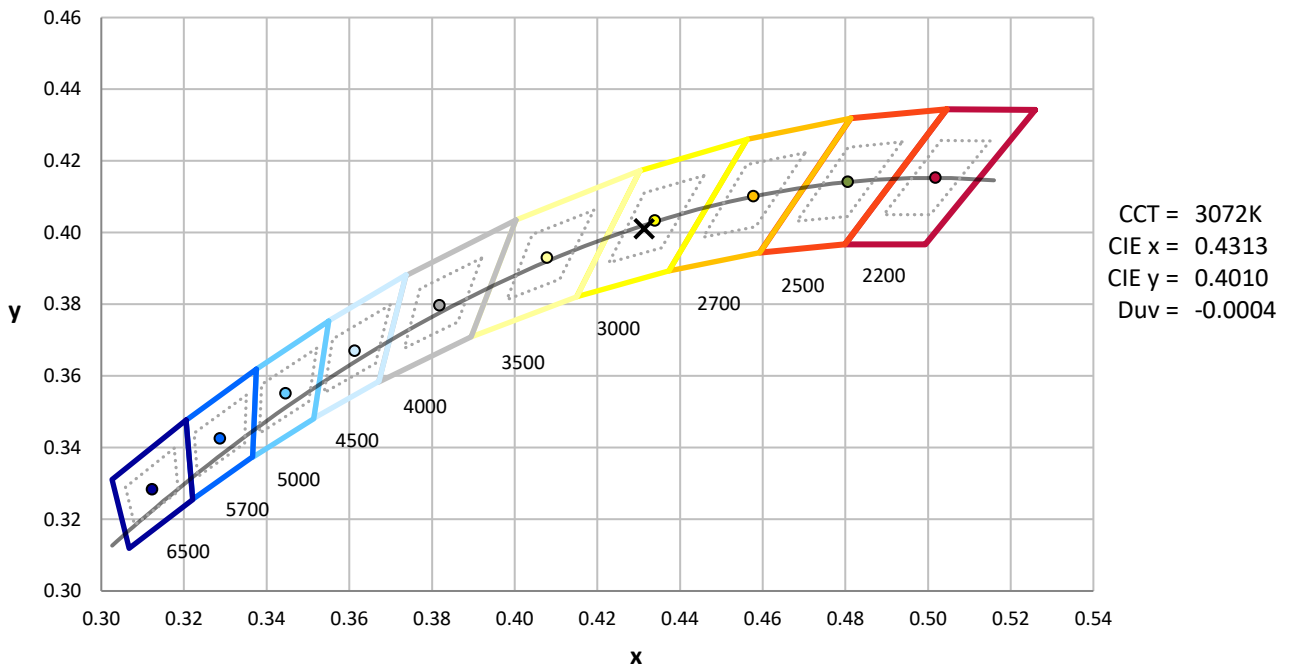
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN2187	1/6/2025	7/6/2025
Power Meter	INXT2011002	1/21/2025	1/21/2026
AC Power Source	IN0458	10/22/2024	10/22/2025
DC Power Source	IN0212	10/22/2024	10/22/2025
Sphere Thermometer	IN4036B	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP2-2501-321-4

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP2-2501-321-4

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	114	NR	620	817	NR	750	22	NR	880	1	NR
365	0	NR	495	141	NR	625	756	NR	755	19	NR	885	1	NR
370	0	NR	500	189	NR	630	693	NR	760	16	NR	890	0	NR
375	0	NR	505	247	NR	635	628	NR	765	14	NR	895	0	NR
380	0	NR	510	307	NR	640	564	NR	770	12	NR	900	0	NR
385	0	NR	515	366	NR	645	504	NR	775	10	NR	905	0	NR
390	0	NR	520	415	NR	650	446	NR	780	9	NR	910	0	NR
395	2	NR	525	455	NR	655	393	NR	785	8	NR	915	0	NR
400	3	NR	530	491	NR	660	344	NR	790	7	NR	920	0	NR
405	6	NR	535	523	NR	665	300	NR	795	6	NR	925	0	NR
410	11	NR	540	556	NR	670	260	NR	800	5	NR	930	0	NR
415	21	NR	545	591	NR	675	226	NR	805	4	NR	935	0	NR
420	41	NR	550	632	NR	680	195	NR	810	4	NR	940	0	NR
425	76	NR	555	679	NR	685	167	NR	815	3	NR	945	0	NR
430	129	NR	560	732	NR	690	144	NR	820	3	NR	950	0	NR
435	205	NR	565	787	NR	695	123	NR	825	2	NR	955	0	NR
440	307	NR	570	847	NR	700	105	NR	830	2	NR	960	0	NR
445	451	NR	575	900	NR	705	90	NR	835	2	NR	965	0	NR
450	603	NR	580	944	NR	710	77	NR	840	2	NR	970	0	NR
455	544	NR	585	977	NR	715	66	NR	845	1	NR	975	0	NR
460	348	NR	590	997	NR	720	56	NR	850	1	NR	980	0	NR
465	249	NR	595	998	NR	725	48	NR	855	1	NR	985	0	NR
470	191	NR	600	986	NR	730	41	NR	860	1	NR	990	0	NR
475	133	NR	605	960	NR	735	35	NR	865	1	NR	995	0	NR
480	107	NR	610	921	NR	740	30	NR	870	1	NR	1000	0	NR
485	104	NR	615	874	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP2-2501-321-4

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.24

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	114	NR	620	817	NR	750	22	NR	880	1	NR
365	0	NR	495	141	NR	625	756	NR	755	19	NR	885	1	NR
370	0	NR	500	189	NR	630	693	NR	760	16	NR	890	0	NR
375	0	NR	505	247	NR	635	628	NR	765	14	NR	895	0	NR
380	0	NR	510	307	NR	640	564	NR	770	12	NR	900	0	NR
385	0	NR	515	366	NR	645	504	NR	775	10	NR	905	0	NR
390	0	NR	520	415	NR	650	446	NR	780	9	NR	910	0	NR
395	2	NR	525	455	NR	655	393	NR	785	8	NR	915	0	NR
400	3	NR	530	491	NR	660	344	NR	790	7	NR	920	0	NR
405	6	NR	535	523	NR	665	300	NR	795	6	NR	925	0	NR
410	11	NR	540	556	NR	670	260	NR	800	5	NR	930	0	NR
415	21	NR	545	591	NR	675	226	NR	805	4	NR	935	0	NR
420	41	NR	550	632	NR	680	195	NR	810	4	NR	940	0	NR
425	76	NR	555	679	NR	685	167	NR	815	3	NR	945	0	NR
430	129	NR	560	732	NR	690	144	NR	820	3	NR	950	0	NR
435	205	NR	565	787	NR	695	123	NR	825	2	NR	955	0	NR
440	307	NR	570	847	NR	700	105	NR	830	2	NR	960	0	NR
445	451	NR	575	900	NR	705	90	NR	835	2	NR	965	0	NR
450	603	NR	580	944	NR	710	77	NR	840	2	NR	970	0	NR
455	544	NR	585	977	NR	715	66	NR	845	1	NR	975	0	NR
460	348	NR	590	997	NR	720	56	NR	850	1	NR	980	0	NR
465	249	NR	595	998	NR	725	48	NR	855	1	NR	985	0	NR
470	191	NR	600	986	NR	730	41	NR	860	1	NR	990	0	NR
475	133	NR	605	960	NR	735	35	NR	865	1	NR	995	0	NR
480	107	NR	610	921	NR	740	30	NR	870	1	NR	1000	0	NR
485	104	NR	615	874	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP2-2501-321-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.3

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	114	NR	620	817	NR	750	22	NR	880	1	NR
365	0	NR	495	141	NR	625	756	NR	755	19	NR	885	1	NR
370	0	NR	500	189	NR	630	693	NR	760	16	NR	890	0	NR
375	0	NR	505	247	NR	635	628	NR	765	14	NR	895	0	NR
380	0	NR	510	307	NR	640	564	NR	770	12	NR	900	0	NR
385	0	NR	515	366	NR	645	504	NR	775	10	NR	905	0	NR
390	0	NR	520	415	NR	650	446	NR	780	9	NR	910	0	NR
395	2	NR	525	455	NR	655	393	NR	785	8	NR	915	0	NR
400	3	NR	530	491	NR	660	344	NR	790	7	NR	920	0	NR
405	6	NR	535	523	NR	665	300	NR	795	6	NR	925	0	NR
410	11	NR	540	556	NR	670	260	NR	800	5	NR	930	0	NR
415	21	NR	545	591	NR	675	226	NR	805	4	NR	935	0	NR
420	41	NR	550	632	NR	680	195	NR	810	4	NR	940	0	NR
425	76	NR	555	679	NR	685	167	NR	815	3	NR	945	0	NR
430	129	NR	560	732	NR	690	144	NR	820	3	NR	950	0	NR
435	205	NR	565	787	NR	695	123	NR	825	2	NR	955	0	NR
440	307	NR	570	847	NR	700	105	NR	830	2	NR	960	0	NR
445	451	NR	575	900	NR	705	90	NR	835	2	NR	965	0	NR
450	603	NR	580	944	NR	710	77	NR	840	2	NR	970	0	NR
455	544	NR	585	977	NR	715	66	NR	845	1	NR	975	0	NR
460	348	NR	590	997	NR	720	56	NR	850	1	NR	980	0	NR
465	249	NR	595	998	NR	725	48	NR	855	1	NR	985	0	NR
470	191	NR	600	986	NR	730	41	NR	860	1	NR	990	0	NR
475	133	NR	605	960	NR	735	35	NR	865	1	NR	995	0	NR
480	107	NR	610	921	NR	740	30	NR	870	1	NR	1000	0	NR
485	104	NR	615	874	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP2-2501-321-4

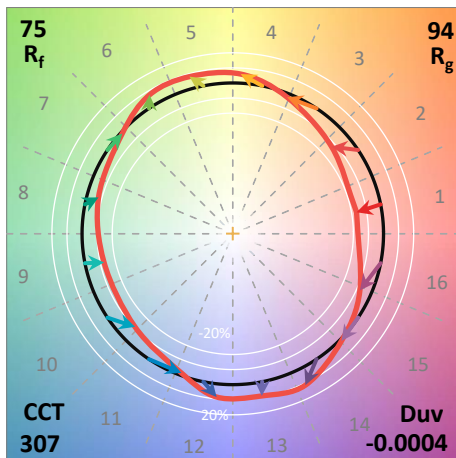
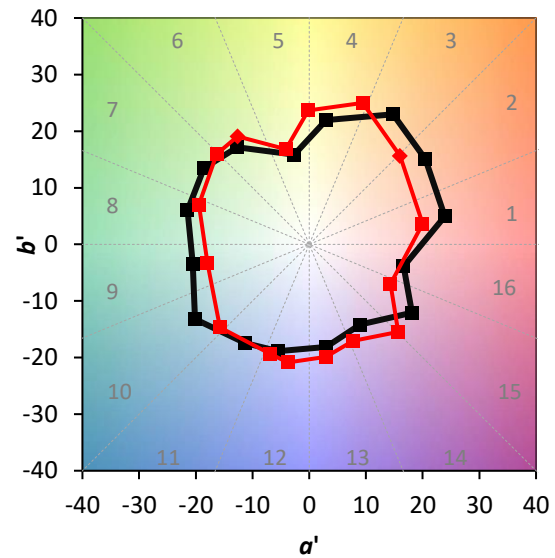
TM-30-18

Summary

$R_f = 74.7$
 $R_g = 94.2$
 $\text{CIE } R_a = 71.7$
 $R_g = -33.9$



Color Vector Graphics



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

CES01 = 86	CES26 = 65	CES51 = 86	CES76 = 58
CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 76
CES03 = 31	CES28 = 84	CES53 = 77	CES78 = 62
CES04 = 71	CES29 = 68	CES54 = 85	CES79 = 85
CES05 = 49	CES30 = 83	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 71	CES56 = 74	CES81 = 73
CES07 = 41	CES32 = 64	CES57 = 74	CES82 = 93
CES08 = 40	CES33 = 78	CES58 = 75	CES83 = 91
CES09 = 29	CES34 = 75	CES59 = 85	CES84 = 88
CES10 = 76	CES35 = 87	CES60 = 90	CES85 = 76
CES11 = 59	CES36 = 94	CES61 = 81	CES86 = 64
CES12 = 65	CES37 = 84	CES62 = 89	CES87 = 77
CES13 = 43	CES38 = 92	CES63 = 75	CES88 = 80
CES14 = 74	CES39 = 96	CES64 = 65	CES89 = 67
CES15 = 71	CES40 = 92	CES65 = 65	CES90 = 79
CES16 = 47	CES41 = 93	CES66 = 60	CES91 = 80
CES17 = 50	CES42 = 86	CES67 = 58	CES92 = 57
CES18 = 56	CES43 = 78	CES68 = 66	CES93 = 74
CES19 = 73	CES44 = 99	CES69 = 75	CES94 = 50
CES20 = 66	CES45 = 85	CES70 = 60	CES95 = 67
CES21 = 87	CES46 = 81	CES71 = 57	CES96 = 77
CES22 = 79	CES47 = 86	CES72 = 85	CES97 = 83
CES23 = 92	CES48 = 75	CES73 = 52	CES98 = 76
CES24 = 91	CES49 = 79	CES74 = 95	CES99 = 64
CES25 = 73	CES50 = 86	CES75 = 60	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)