

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: P972401

Luminaire Tested: **GKO-PB2A-722-U-T1**

Issue Date: 02/27/2025



Test Information

Test Method: LM-79-08
Report Number: P972401
Test Lab: INNOVATION CENTER(G1)
Issue Date: 02/27/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GKO-PB2A-722-U-T1
Description: GEKKO WALL PACK 4000LM PACKAGE 70CRI 2200K FIXTURE w/ TYPE I DISTRIBUTION OPTIC
Light Source: (20) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3658 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G1

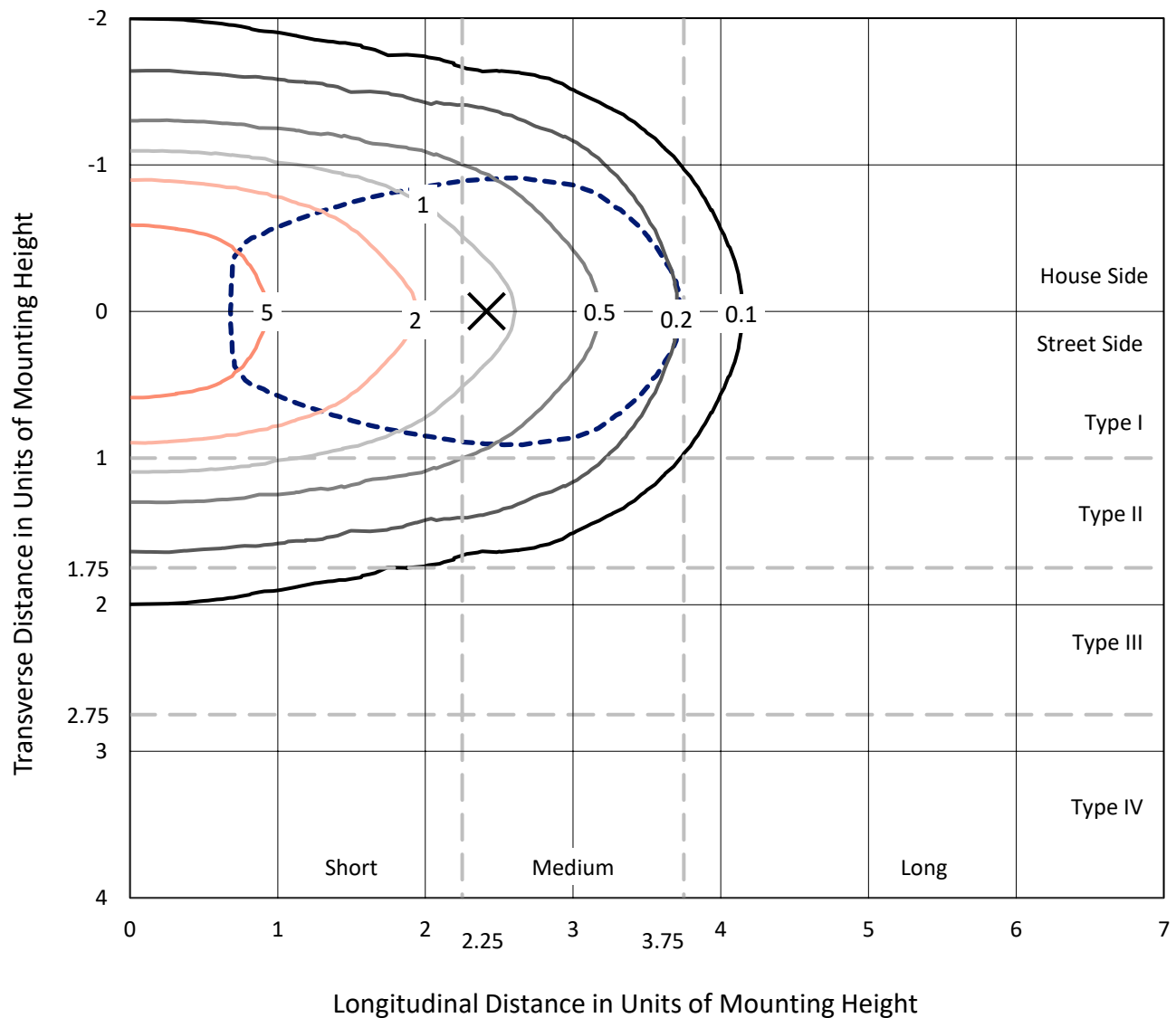
Input Watts (W): 26.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): 12%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

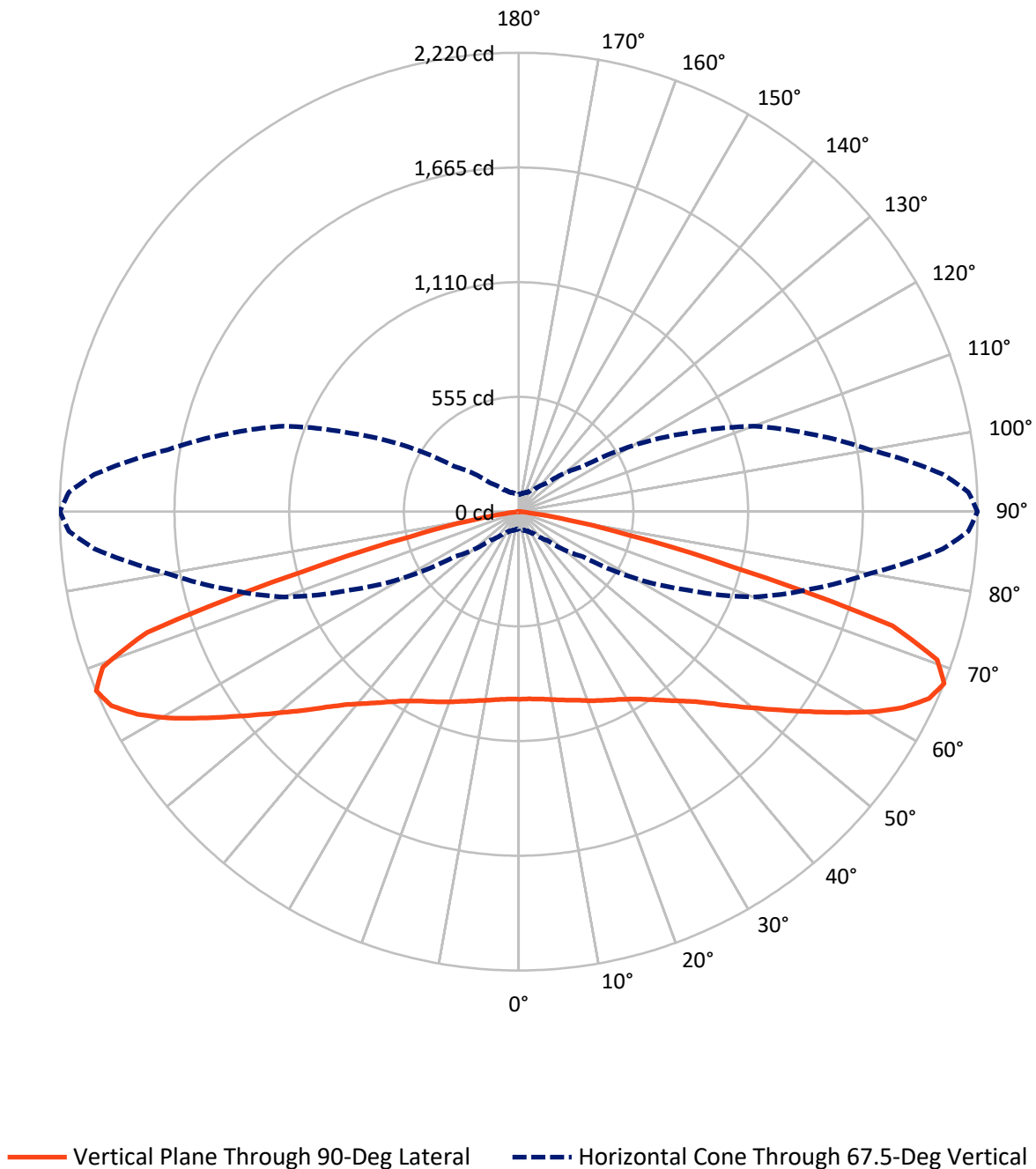


Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1829.0	0.0	1829.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1829.0	0.0	1829.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3658.0	0.0	3658.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	2.4
10°-20°	262.3	7.2
20°-30°	436.2	11.9
30°-40°	579.5	15.8
40°-50°	653.3	17.9
50°-60°	671.8	18.4
60°-70°	634.8	17.4
70°-80°	310.8	8.5
80°-90°	22.2	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°	3658.0	100.0
0°-180°	3658.0	100.0

Coefficient of Utilization



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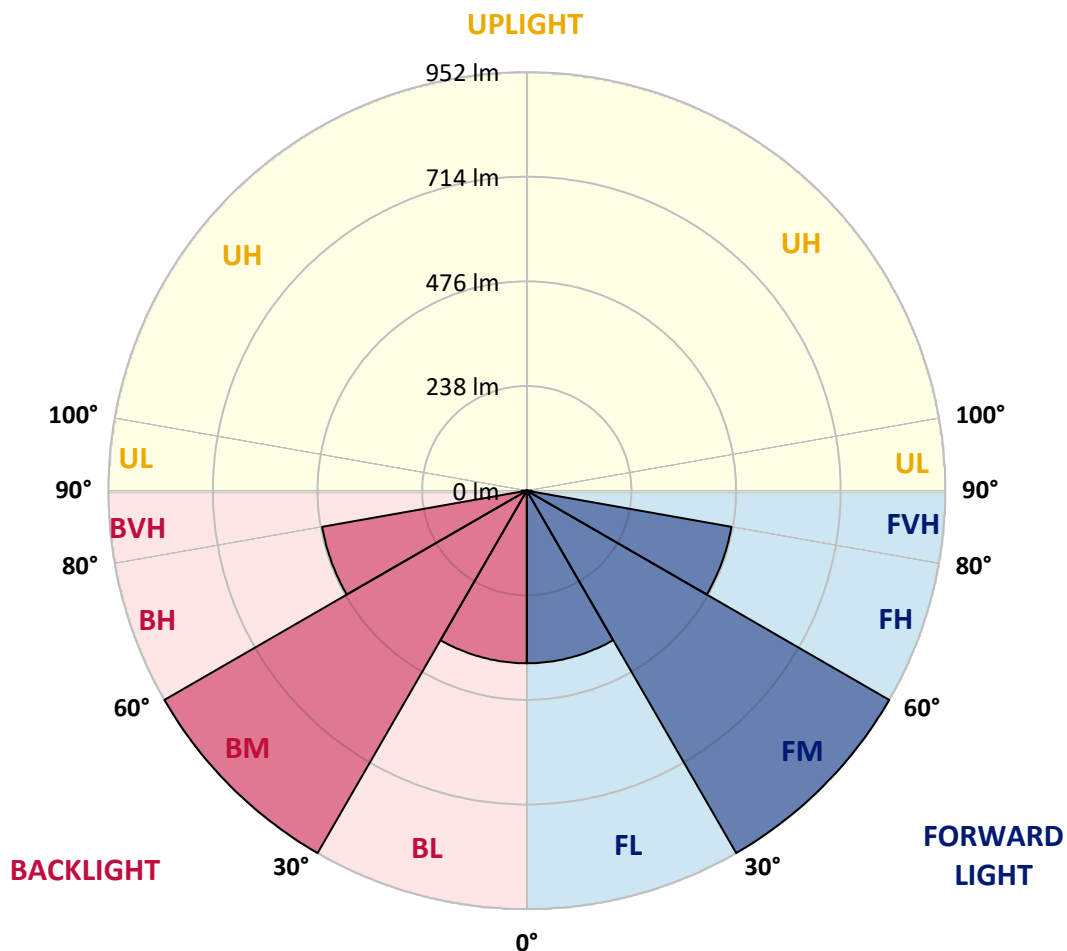
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	392.8	10.7			
FM	(30°-60°)	952.3	26.0			
FH	(60°-80°)	472.8	12.9			G0/660
FVH	(80°-90°)	11.1	0.3			G1/100
BL	(0°-30°)	392.8	10.7	B1/500		
BM	(30°-60°)	952.3	26.0	B1/1000		
BH	(60°-80°)	472.8	12.9	B1/500		G1/500
BVH	(80°-90°)	11.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	907.7	907.7	907.7	907.7	907.7	907.7	907.7	907.7	907.7	907.7	907.7
2.5°	908.4	909.7	907.0	907.0	908.4	909.1	909.1	909.7	908.4	908.4	907.7
5°	908.4	909.1	907.7	907.7	909.1	911.1	910.4	911.8	911.8	911.1	911.1
7.5°	907.7	909.1	907.7	908.4	910.4	914.5	914.5	914.5	915.8	917.1	917.1
10°	907.0	908.4	909.1	909.7	912.4	918.5	919.8	920.5	922.5	924.6	924.6
12.5°	903.7	905.0	907.0	909.7	914.5	922.5	925.2	927.3	930.6	932.7	934.0
15°	898.9	899.6	904.3	909.7	917.1	927.3	932.7	936.0	940.8	943.4	945.5
17.5°	892.2	892.9	900.3	908.4	919.2	933.3	942.1	947.5	952.2	956.3	959.0
20°	883.4	885.5	894.2	907.0	922.5	939.4	952.2	961.7	966.4	970.4	974.5
22.5°	872.6	874.7	885.5	903.7	925.9	947.5	964.4	976.5	982.6	988.0	992.7
25°	856.5	859.2	872.0	895.6	927.3	956.3	977.8	993.4	998.7	1005.5	1009.5
27.5°	831.5	833.5	849.0	879.4	923.2	965.7	993.4	1011.6	1017.6	1025.0	1029.1
30°	792.4	796.4	815.3	853.1	913.1	973.1	1011.6	1029.8	1037.2	1044.6	1050.0
32.5°	741.8	747.9	768.8	817.3	893.5	975.8	1031.1	1052.0	1061.5	1069.6	1076.3
35°	679.1	685.2	710.1	771.5	862.5	970.4	1050.7	1077.6	1089.1	1099.9	1108.0
37.5°	607.6	613.0	643.4	713.5	818.0	953.6	1066.2	1106.0	1121.5	1135.6	1146.4
40°	535.5	541.5	574.6	649.4	764.1	921.2	1072.9	1137.0	1156.5	1174.8	1188.2
42.5°	457.2	464.6	501.7	581.3	701.3	876.7	1067.5	1167.3	1191.6	1216.6	1236.8
45°	387.8	389.1	429.6	506.5	632.6	819.4	1048.7	1196.3	1229.4	1264.4	1293.4
47.5°	321.0	323.7	358.8	435.0	561.1	754.6	1014.3	1219.3	1271.9	1317.1	1359.5
50°	261.7	265.0	296.7	364.8	489.6	683.8	967.7	1232.8	1308.3	1369.7	1429.0
52.5°	213.1	217.1	243.4	303.5	417.4	609.6	910.4	1234.8	1341.3	1422.3	1501.2
55°	177.4	180.1	200.3	248.2	348.0	532.8	845.0	1224.7	1362.9	1469.5	1574.7
57.5°	149.7	152.4	166.6	204.3	285.3	453.9	765.4	1201.1	1374.4	1510.6	1648.8
60°	130.2	132.2	142.3	169.3	234.7	379.7	679.8	1159.2	1371.0	1536.2	1710.2
62.5°	116.0	116.7	125.4	144.3	193.5	309.5	583.3	1096.5	1343.4	1539.6	1752.0
65°	103.2	103.9	109.2	122.7	159.2	248.8	482.9	1010.2	1290.8	1516.0	1758.1
67.5°	83.6	85.0	93.1	103.2	130.8	196.9	380.3	896.9	1208.5	1454.6	1723.7
70°	66.8	67.4	75.5	87.0	106.6	155.1	292.0	744.5	1079.7	1354.8	1634.7
72.5°	49.9	51.3	58.7	70.1	87.0	120.0	211.1	563.1	863.2	1142.4	1423.6
75°	39.8	40.5	43.2	53.9	67.4	91.0	142.3	341.2	519.9	706.7	872.6
77.5°	33.7	34.4	34.4	41.8	49.9	61.4	75.5	135.5	219.8	312.9	414.7
80°	27.6	29.0	26.3	31.0	35.7	35.7	35.1	64.7	103.9	147.0	192.9
82.5°	20.2	21.6	20.2	21.6	21.6	19.6	18.2	24.3	33.0	45.2	49.2
85°	14.2	14.8	16.2	14.8	14.2	11.5	8.8	6.7	4.0	4.7	6.7
87.5°	9.4	11.5	13.5	12.8	10.8	8.8	6.1	4.0	2.0	2.7	2.7
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°	907.7	907.7	907.7
2.5°	908.4	907.7	907.0
5°	911.8	911.1	910.4
7.5°	916.5	916.5	916.5
10°	923.9	925.2	925.2
12.5°	933.3	934.7	934.7
15°	944.8	945.5	946.8
17.5°	959.0	959.6	959.6
20°	975.8	975.1	976.5
22.5°	992.7	992.7	992.7
25°	1010.2	1010.2	1010.2
27.5°	1030.4	1030.4	1029.1
30°	1052.7	1052.7	1052.7
32.5°	1079.7	1080.3	1081.0
35°	1114.1	1115.4	1117.4
37.5°	1153.2	1156.5	1158.6
40°	1199.7	1201.1	1204.4
42.5°	1251.6	1255.7	1256.4
45°	1316.4	1323.1	1325.8
47.5°	1392.6	1402.0	1406.7
50°	1477.6	1488.3	1495.1
52.5°	1569.9	1587.5	1595.6
55°	1668.4	1698.7	1707.5
57.5°	1779.7	1820.8	1832.9
60°	1888.9	1946.9	1966.5
62.5°	1982.0	2063.6	2087.9
65°	2047.4	2145.9	2181.6
67.5°	2060.9	2177.6	2220.0
70°	1980.0	2099.3	2148.6
72.5°	1721.7	1829.6	1890.9
75°	1017.0	1094.5	1075.6
77.5°	510.5	532.8	536.1
80°	223.9	237.4	242.8
82.5°	55.3	56.6	64.1
85°	7.4	8.8	8.1
87.5°	2.7	2.7	3.4
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: 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

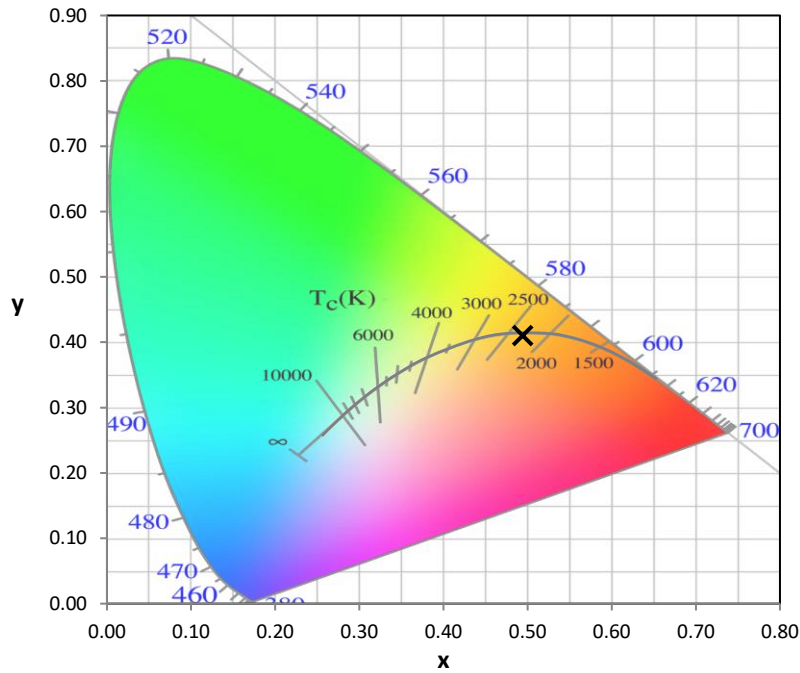
Stabilization Time: 40M
 Operation Time: 1H 40M
 Sphere Temperature (°C): 25.0

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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 2200K 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	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			

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Scotopic Flux vs. Wavelength



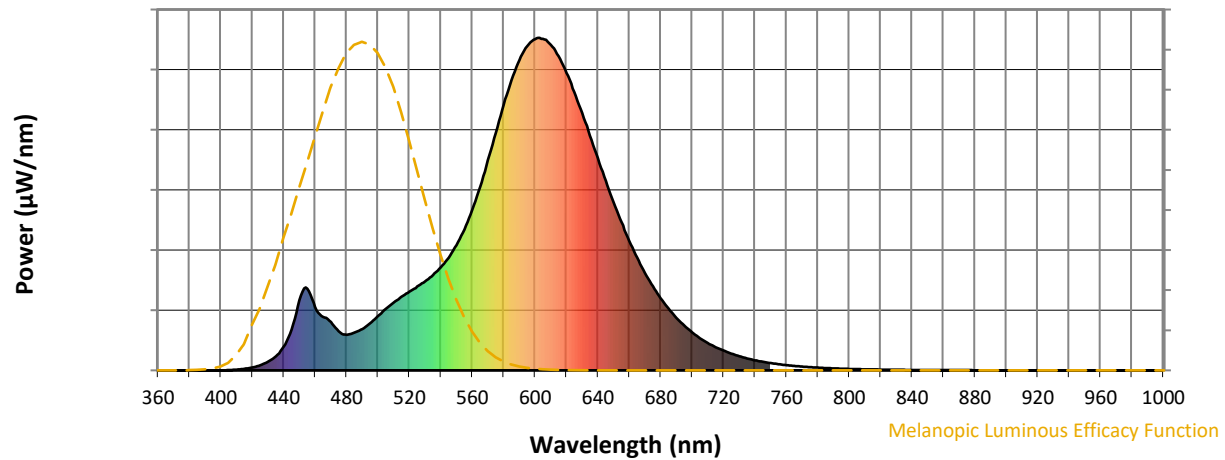
Scotopic Lumens: NR

S/P: 0.98

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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.75

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	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			

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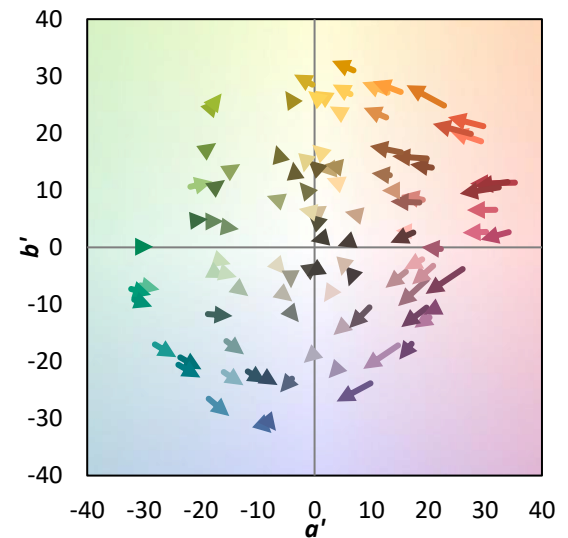
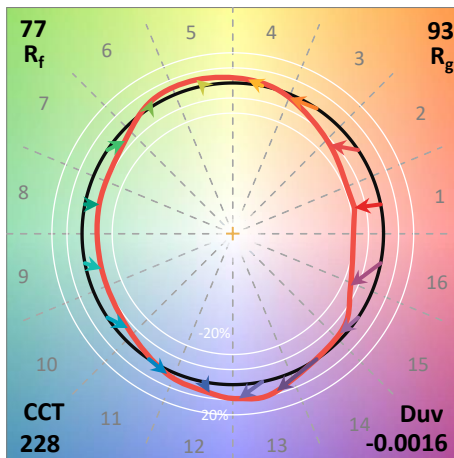
TM-30-18

Summary

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

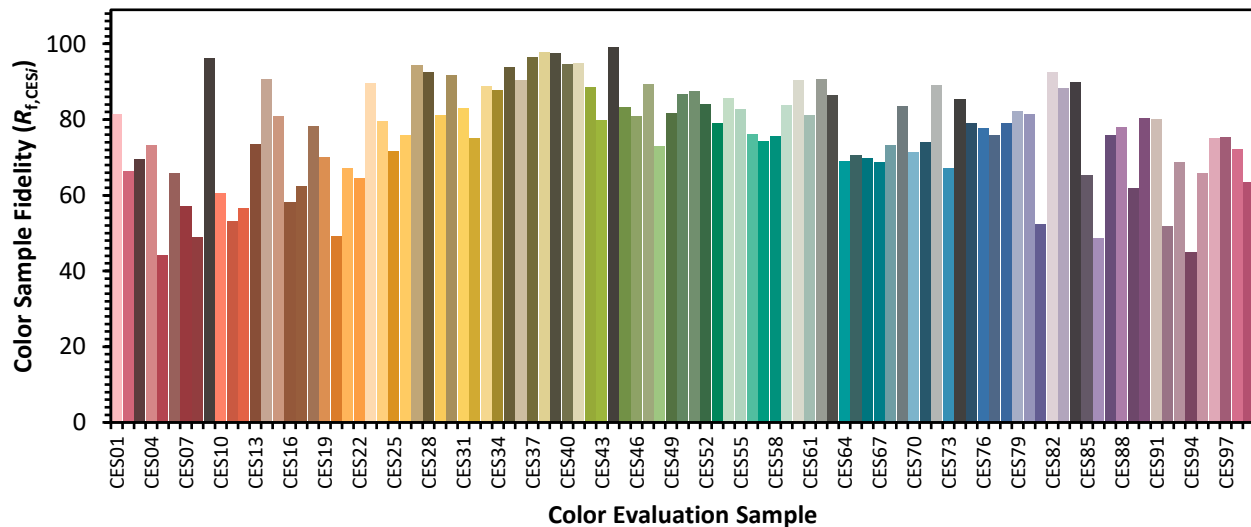


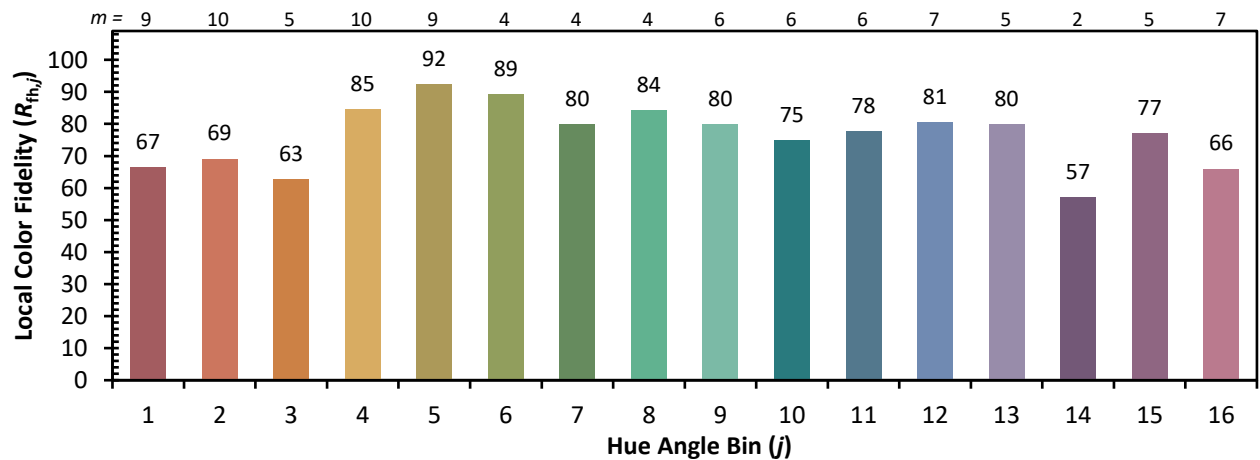
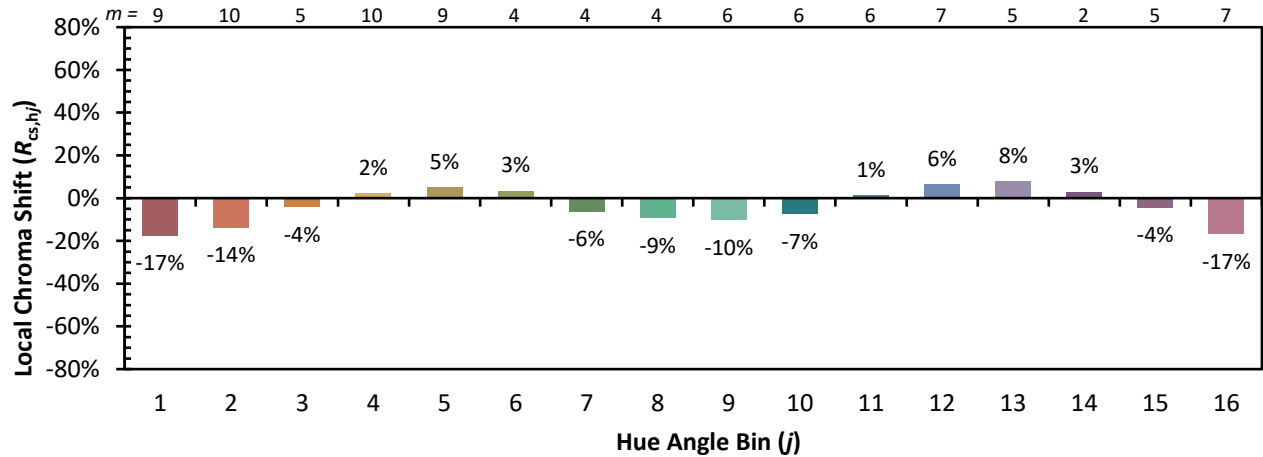
Color Vector Graphics



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)