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: LUMARK

Report Number: P1067120

Luminaire Tested: **NAV-SA5D-830-U-T3BC**

Issue Date: 08/07/2025

Report Generated By 670347003

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1067120
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	08/07/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	LUMARK
Catalog Number:	NAV-SA5D-830-U-T3BC
Description:	Navion AREA AND ROADWAY LUMINAIRE 1200mA 5xLight Square PACKAGE 80CRI 3000K FIXTURE w/ TYPE III ANGLED BACKLIGHT CONTROL
Light Source:	(70) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	25266 lumens
Efficiency:	N/A
Efficacy:	93.7 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B0 - U0 - G4

Input Watts (W):	269.7
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.97
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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REPORT NUMBER: P1067120
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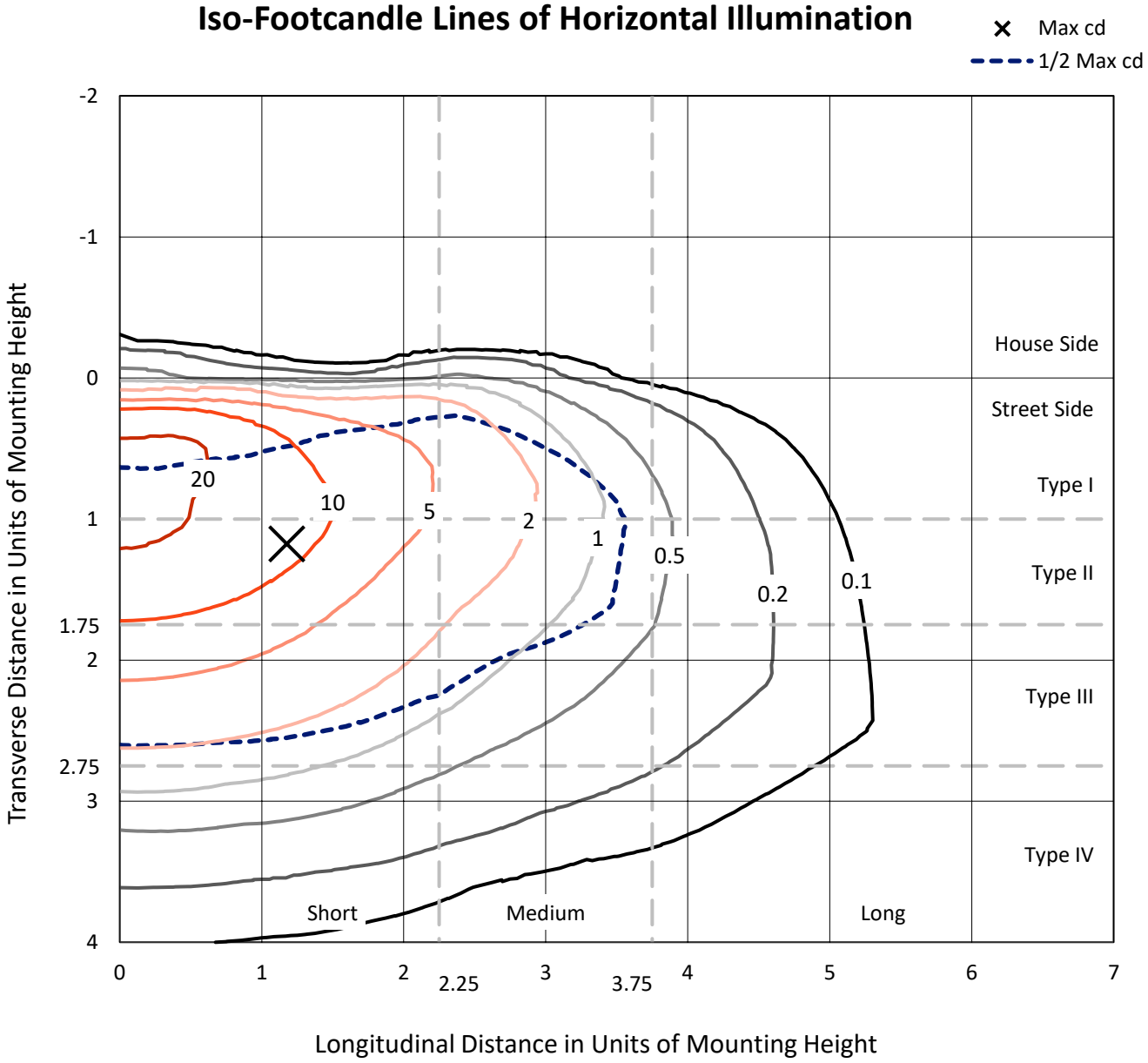
Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 27.6 fc
Type III - Short - N/A

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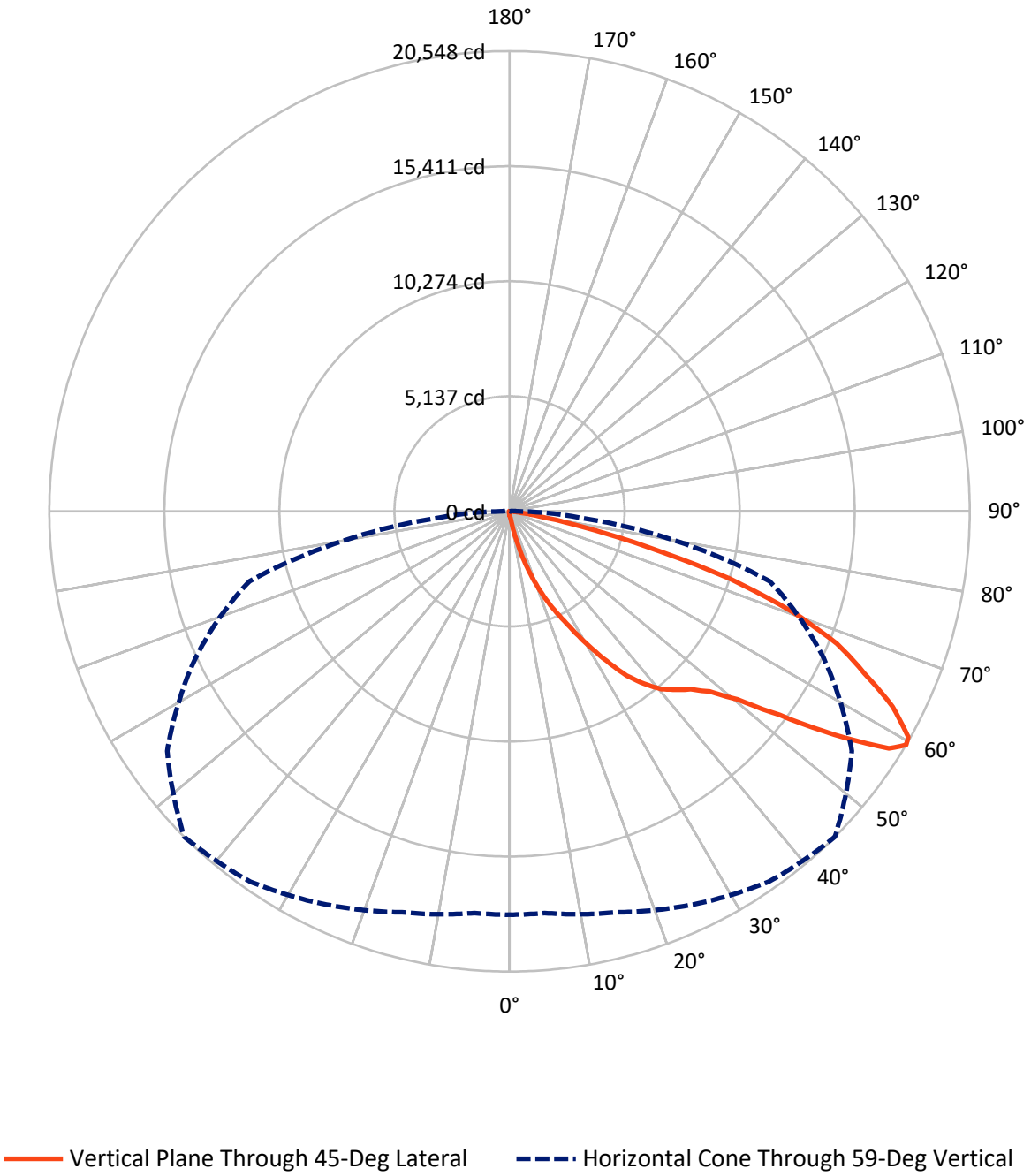
Luminous Intensity Polar Plot



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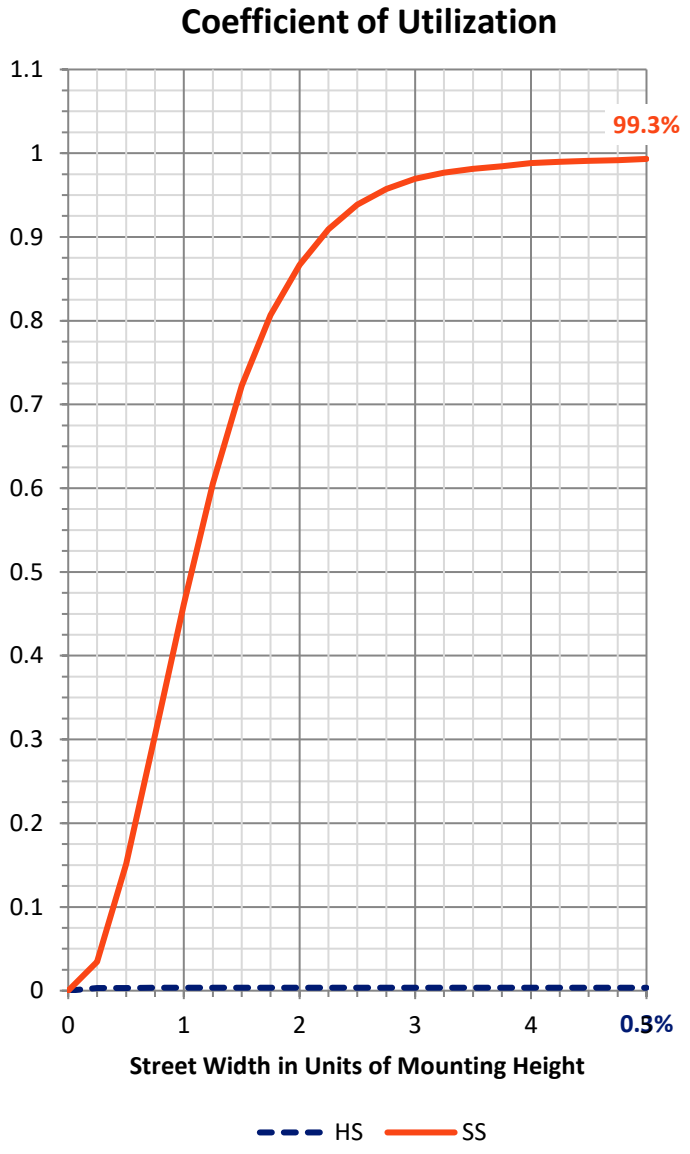
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	89.7	0.0	89.7
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	25176.2	0.0	25176.2
	% Fixture	99.6	0.0	99.6
Total	Lumens	25266.0	0.0	25266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.5	0.1
10°-20°	279.3	1.1
20°-30°	1003.4	4.0
30°-40°	2331.7	9.2
40°-50°	3974.2	15.7
50°-60°	6548.4	25.9
60°-70°	7571.4	30.0
70°-80°	3252.9	12.9
80°-90°	281.1	1.1
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°	25266.0	100.0
0°-180°	25266.0	100.0



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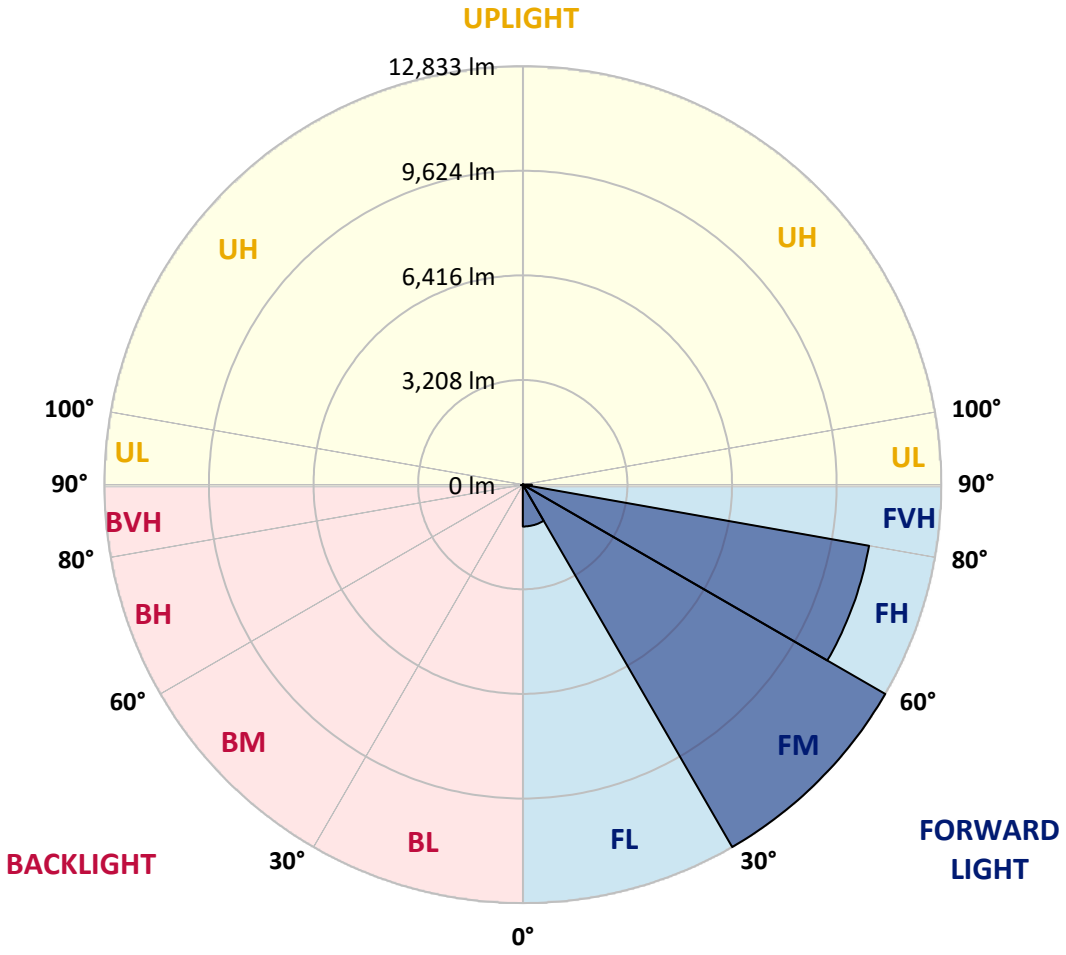
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1284.0	5.1			
FM	(30°-60°)	12832.6	50.8			
FH	(60°-80°)	10782.2	42.7			G4/12000
FVH	(80°-90°)	277.4	1.1			G3/500
BL	(0°-30°)	22.1	0.1	B0/110		
BM	(30°-60°)	21.7	0.1	B0/220		
BH	(60°-80°)	42.2	0.2	B0/110		G0/110
BVH	(80°-90°)	3.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G4
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	159.7	159.7	159.7	159.7	159.7	159.7	*159.7*	159.7	159.7	159.7	159.7
2.5°	207.3	207.3	202.2	195.4	193.7	188.6	*188.6*	183.5	176.7	171.6	164.8
5°	300.7	299.0	285.4	268.4	246.3	232.7	*232.7*	214.1	197.1	181.8	168.2
7.5°	657.5	642.2	592.9	511.4	404.3	333.0	*327.9*	266.7	226.0	195.4	169.9
10°	1508.6	1455.9	1386.3	1190.9	880.0	615.0	*603.1*	389.0	270.1	210.7	173.3
12.5°	2471.9	2514.4	2375.0	2067.5	1704.0	1267.4	*1182.4*	655.8	356.8	231.0	176.7
15°	3348.5	3338.3	3260.2	3008.7	2589.1	2008.1	*1955.4*	1140.0	511.4	263.3	180.1
17.5°	4004.3	3992.4	3917.6	3756.2	3433.5	2852.4	*2806.6*	1817.8	801.9	309.2	183.5
20°	4695.7	4680.4	4575.1	4446.0	4164.0	3669.6	*3615.2*	2575.5	1255.5	383.9	183.5
22.5°	5524.8	5495.9	5383.8	5164.6	4867.3	4437.5	*4388.2*	3350.2	1817.8	506.3	192.0
25°	6527.1	6477.9	6323.3	6126.2	5767.7	5196.9	*5144.2*	4213.2	2495.7	691.4	200.5
27.5°	7670.5	7679.0	7470.0	7137.0	6656.3	6073.5	*5975.0*	4986.2	3197.3	956.5	210.7
30°	9027.9	8943.0	8649.0	8261.7	7794.5	7052.1	*6957.0*	5755.8	3985.6	1347.2	227.7
32.5°	10298.7	10206.9	9811.1	9323.5	8822.3	8039.1	*7961.0*	6620.6	4702.5	1809.3	258.2
35°	11389.4	11324.8	10771.0	10176.4	9731.2	9031.3	*9007.5*	7585.5	5545.2	2307.1	292.2
37.5°	12349.2	12232.0	11520.2	10903.5	10451.6	9824.7	*9773.7*	8469.0	6357.2	2884.7	343.2
40°	13168.1	13103.5	12235.4	11425.0	11058.1	10497.4	*10432.9*	9243.7	7196.5	3555.8	406.0
42.5°	14044.7	13959.8	13117.1	12208.2	11532.1	10932.4	*10889.9*	9882.4	7944.0	4293.1	499.5
45°	15035.2	14877.2	14138.2	13322.7	12294.9	11382.6	*11335.0*	10451.6	8710.2	5084.8	613.3
47.5°	16093.6	15956.0	15358.0	14785.4	13603.0	12125.0	*12023.0*	10935.8	9471.3	5998.8	757.7
50°	17170.7	17174.1	16725.6	16450.4	15201.7	13331.2	*13186.8*	11647.6	10271.5	6977.3	971.8
52.5°	18424.5	18456.7	18449.9	18246.1	17277.7	15303.6	*15109.9*	12728.1	11200.8	8119.0	1267.4
55°	18949.4	19007.2	19382.6	19834.5	19571.2	17804.4	*17597.1*	14591.8	12432.5	9391.5	1705.7
57.5°	18519.6	18584.2	19102.3	19894.0	20498.8	19994.2	*19970.5*	17017.8	14054.9	10934.1	2422.6
59°	*18008.2*	*17999.7*	*18531.5*	*19370.7*	*20186.2*	*20514.1*	*20548.1*	*18658.9*	*15468.4*	*12016.3*	*3041.0*
60°	17668.5	17675.3	18028.6	18890.0	19756.4	20325.5	*20458.0*	19625.6	16294.1	12794.3	3571.1
62.5°	16356.9	16435.1	16715.4	17515.6	18337.8	18973.2	*19199.2*	20486.9	18657.2	14632.5	5414.4
65°	14931.5	14936.6	15335.9	16020.5	16808.8	17255.6	*17398.3*	19146.5	20235.5	16504.7	7831.9
67.5°	12388.3	12491.9	12945.5	14054.9	15096.3	15662.1	*15770.8*	16666.1	19581.4	17724.5	9043.2
70°	8669.4	8805.3	9452.6	10891.6	12442.7	13372.0	*13365.2*	13854.4	17233.5	17180.9	7667.1
72.5°	4328.8	4563.2	5091.6	6632.5	8511.4	9970.8	*10278.3*	11144.7	13844.3	14270.7	5720.2
75°	1913.0	1926.5	2227.2	3003.6	4230.2	6083.7	*6358.9*	8846.1	10621.5	9918.1	4131.7
77.5°	1112.8	1123.0	1177.3	1348.9	1714.2	2981.6	*3290.8*	5801.7	7505.7	5764.3	2694.4
80°	404.3	414.5	412.8	511.4	750.9	1173.9	*1308.1*	2811.7	5006.6	3035.9	1411.8
82.5°	248.0	248.0	239.5	241.2	273.5	450.2	*492.7*	1197.7	2437.9	1495.0	404.3
85°	122.3	129.1	137.6	154.6	183.5	222.6	*236.1*	343.2	820.6	361.9	96.8
87.5°	73.1	74.8	81.5	98.5	122.3	159.7	*169.9*	232.7	293.9	242.9	23.8
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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CATALOG NUMBER: NAV-SA5D-830-U-T3BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	159.7	159.7	159.7	159.7	159.7	159.7	159.7	159.7	159.7	159.7	159.7
2.5°	161.4	159.7	151.2	144.4	137.6	130.8	125.7	120.6	120.6	122.3	120.6
5°	161.4	154.6	141.0	129.1	118.9	110.4	101.9	95.1	93.4	93.4	95.1
7.5°	159.7	151.2	132.5	117.2	103.6	91.7	83.2	74.8	73.1	74.8	73.1
10°	158.0	147.8	125.7	107.0	88.3	76.5	64.6	56.1	56.1	56.1	57.8
12.5°	158.0	142.7	118.9	96.8	76.5	62.9	51.0	42.5	40.8	40.8	40.8
15°	156.3	139.3	112.1	84.9	64.6	47.6	37.4	28.9	28.9	28.9	28.9
17.5°	152.9	134.2	103.6	74.8	51.0	35.7	25.5	17.0	17.0	20.4	20.4
20°	149.5	129.1	93.4	61.2	42.5	27.2	17.0	10.2	10.2	15.3	17.0
22.5°	151.2	129.1	86.6	54.4	34.0	20.4	13.6	8.5	6.8	11.9	15.3
25°	152.9	125.7	78.1	47.6	25.5	15.3	10.2	3.4	1.7	3.4	5.1
27.5°	152.9	122.3	68.0	37.4	18.7	11.9	5.1	0.0	0.0	0.0	0.0
30°	151.2	117.2	59.5	30.6	13.6	6.8	1.7	0.0	0.0	0.0	0.0
32.5°	149.5	112.1	54.4	23.8	11.9	3.4	0.0	0.0	0.0	0.0	0.0
35°	151.2	105.3	47.6	18.7	6.8	0.0	0.0	0.0	0.0	0.0	3.4
37.5°	156.3	98.5	40.8	15.3	5.1	0.0	0.0	0.0	0.0	0.0	0.0
40°	163.1	93.4	34.0	11.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	176.7	93.4	30.6	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	193.7	93.4	25.5	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	215.8	95.1	22.1	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	242.9	98.5	20.4	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	263.3	95.1	18.7	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	299.0	91.7	17.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	346.6	86.6	17.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	*394.1*	*79.8*	*17.0*	*1.7*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*
60°	448.5	76.5	15.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	740.7	68.0	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1430.5	64.6	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2312.2	64.6	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2431.1	64.6	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1617.3	52.7	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	866.4	47.6	5.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	467.2	44.2	6.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	205.6	32.3	8.5	5.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	81.5	22.1	10.2	8.5	6.8	3.4	0.0	0.0	0.0	0.0	0.0
85°	39.1	17.0	13.6	11.9	8.5	5.1	0.0	0.0	0.0	0.0	0.0
87.5°	18.7	17.0	15.3	13.6	11.9	8.5	1.7	0.0	0.0	0.0	0.0
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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LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

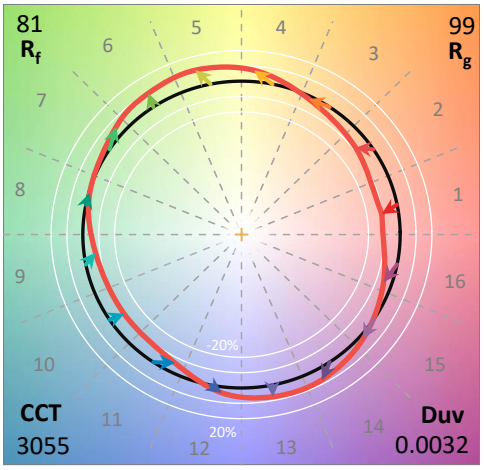
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-9
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	10/15/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGraw-Edison
Catalog Number:	**GSS-SB1A-830-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3055
CIE u':	0.2475
CIE v':	0.5247
Duv:	0.0032
CIE x:	0.4377
CIE y:	0.4124
CIE z:	0.1499
Peak Wavelength (nm):	604
Dominant Wavelength (nm):	581
Purity:	55.16339
Rf:	81.5
Rg:	99.2

CRI (Ra):	80.9
R1:	79.5
R2:	85.6
R3:	92.1
R4:	82.4
R5:	78.9
R6:	81.7
R7:	85.1
R8:	61.9
R9:	6.8
R10:	67.1
R11:	82.5
R12:	63.4
R13:	80.2
R14:	95.1
R15:	71.7



Test Conditions

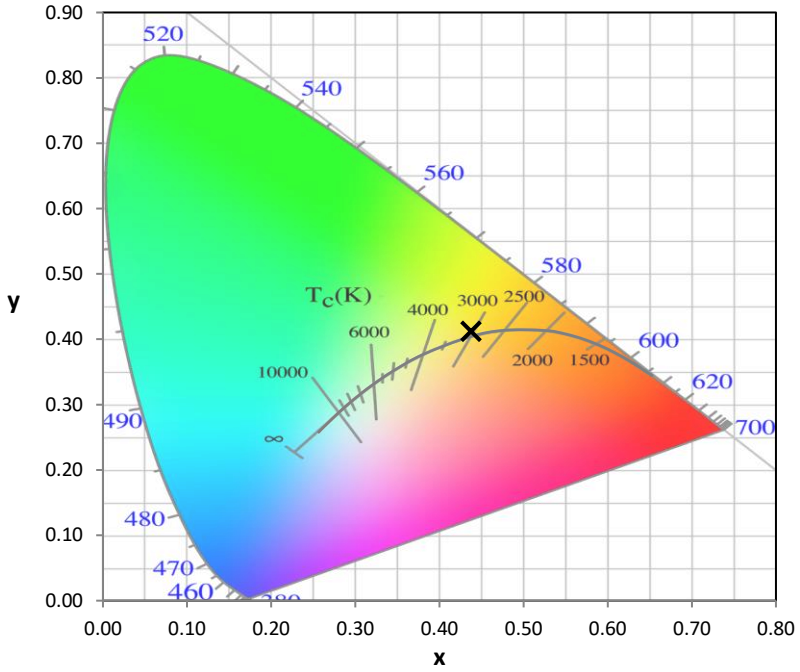
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-9

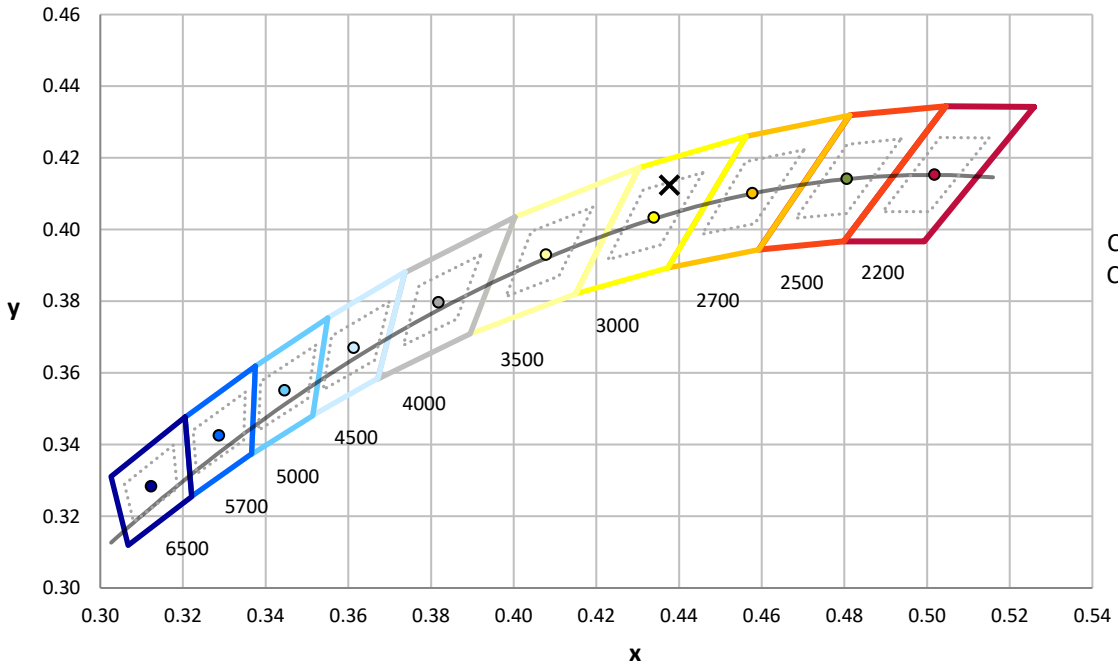
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2407-184-9

CIE 1931 Chromaticity Diagram



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

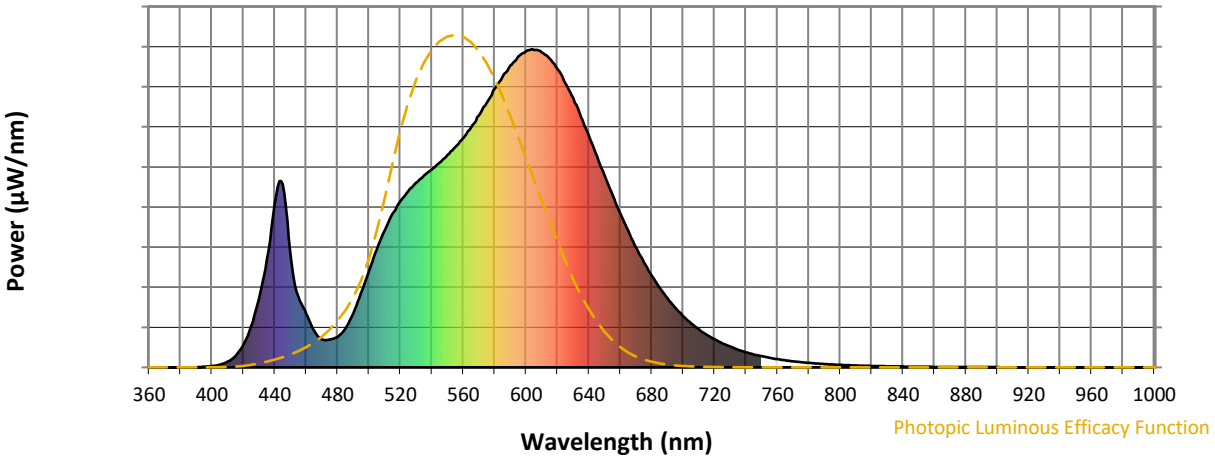


CCT = 3055K
CIE x = 0.4377
CIE y = 0.4124
Duv = 0.0032

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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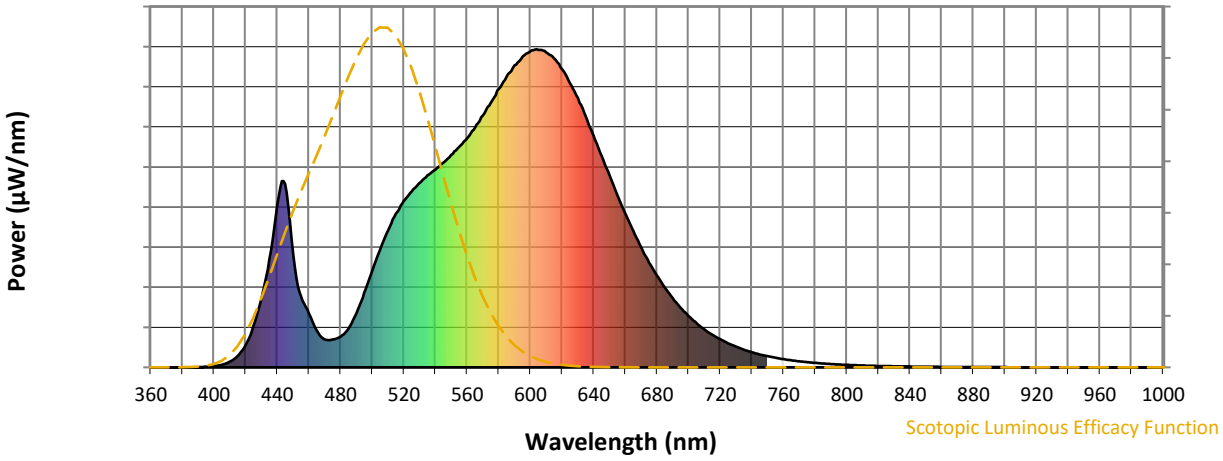
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.28**

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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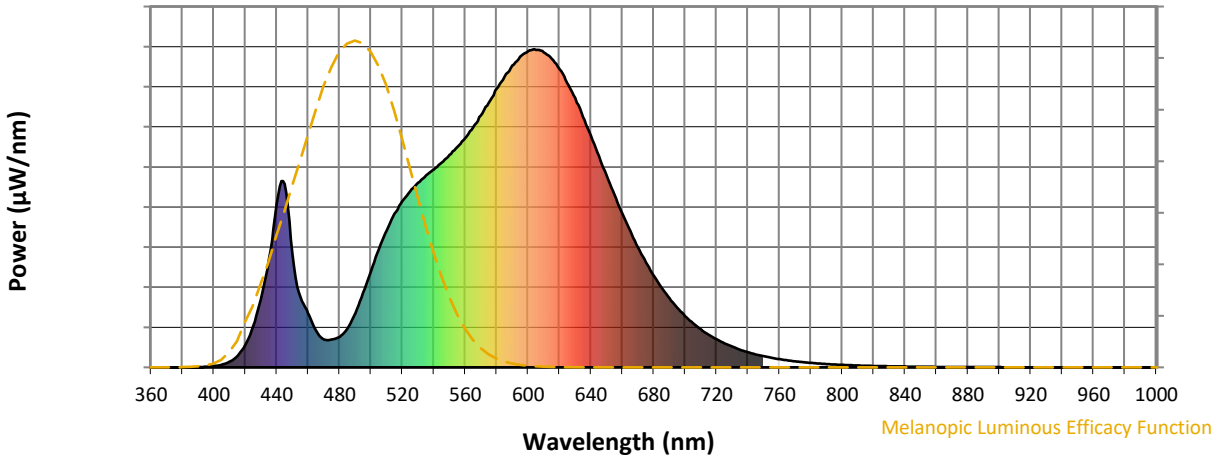
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.33**

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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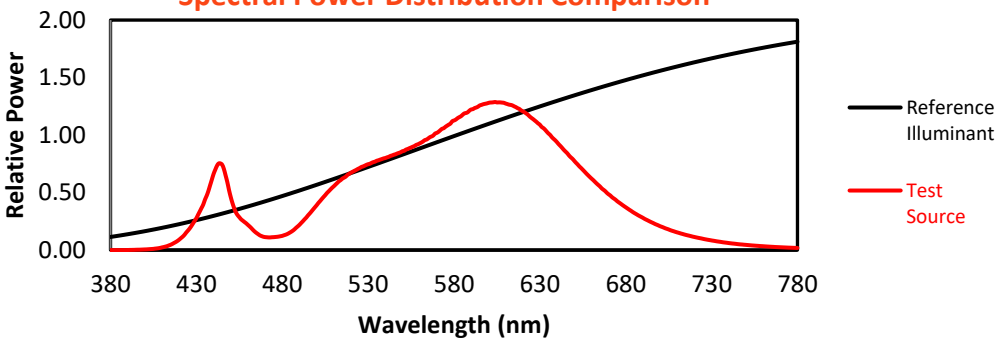
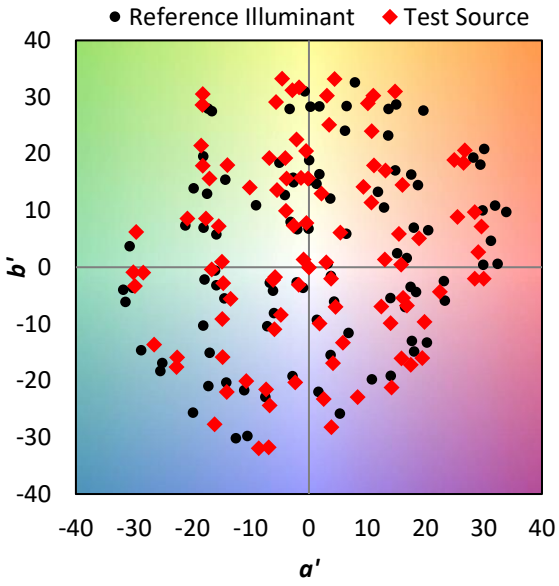
Summary

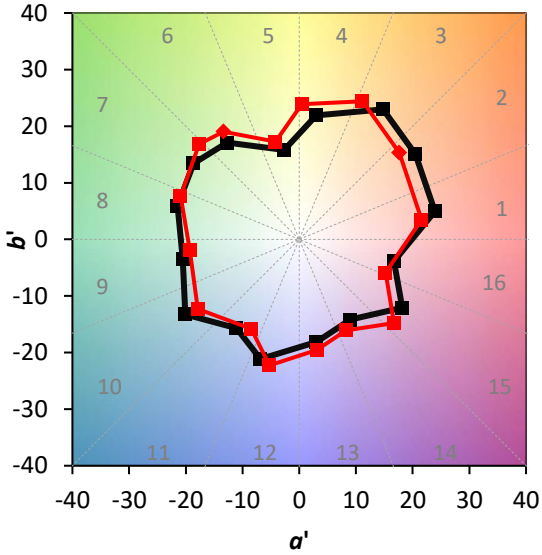
R_f = 81.5
R_g = 99.2
CIE R_a = 80.9
R_9 = 6.8

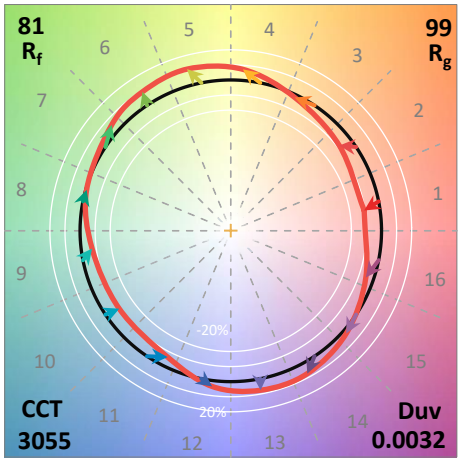
Spectral Power Distribution Comparison

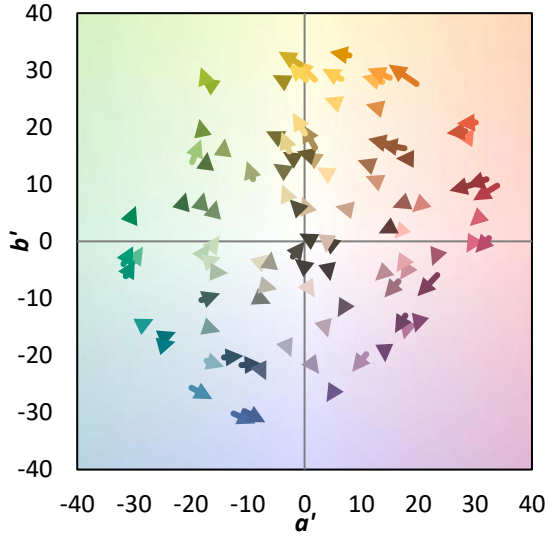


Color Vector Graphics









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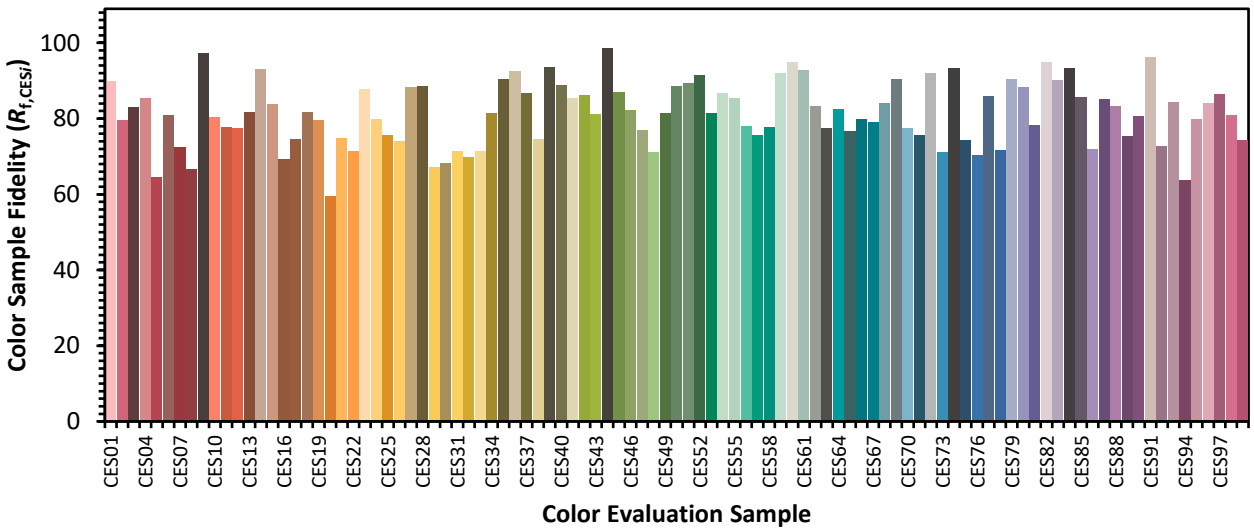
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



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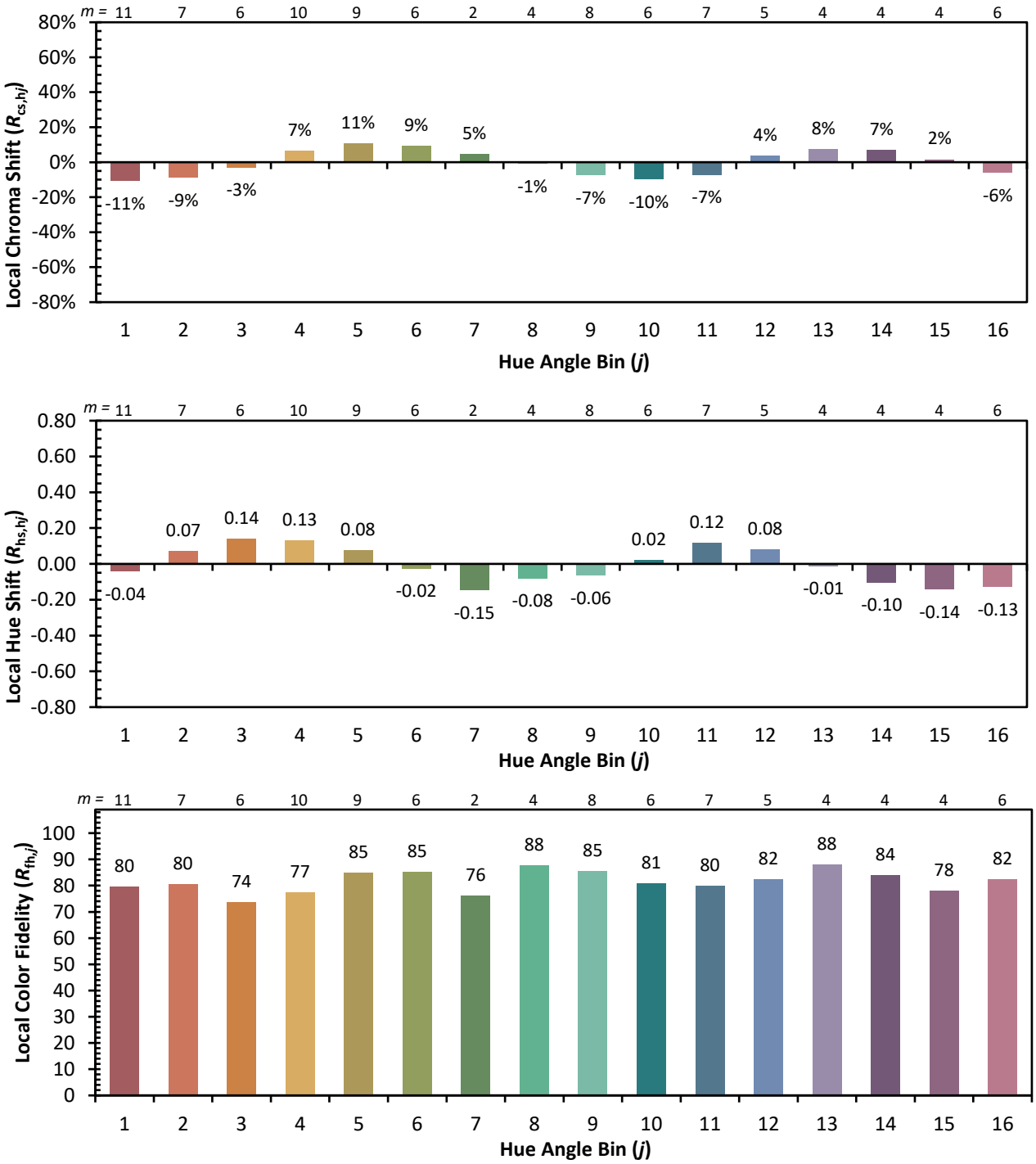
Color Rendition by Hue-Angle Bin



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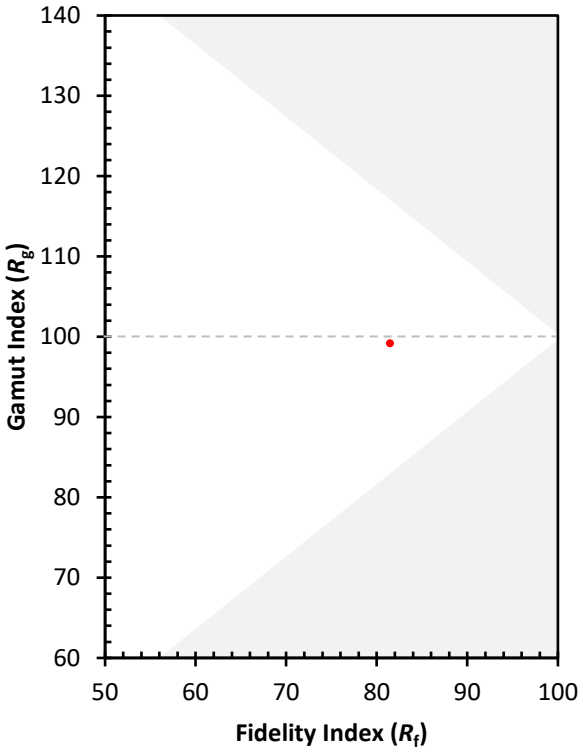
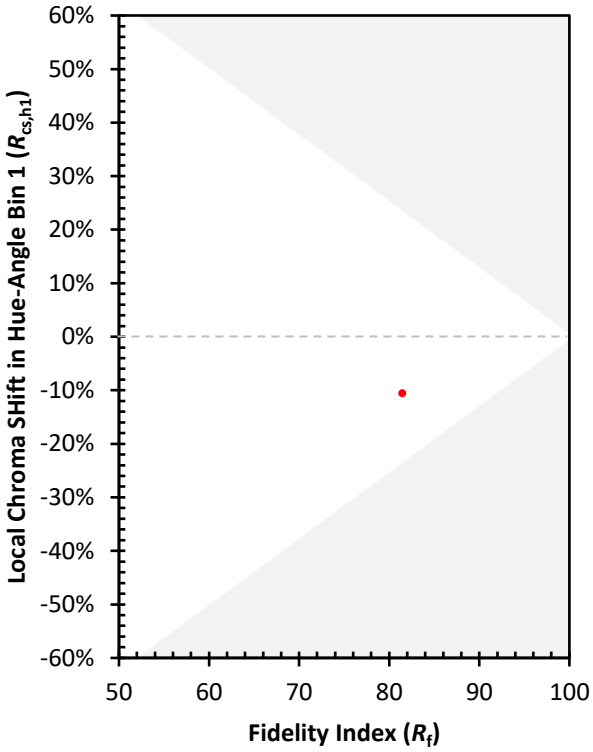
Measure Comparisons





(END OF REPORT)