

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: STREETWORKS

Report Number: P1065844

Luminaire Tested: **NVN-SA4D-750-U-T3BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065844
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SA4D-750-U-T3BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 4xLight Square PACKAGE
70CRI 5000K FIXTURE w/ TYPE III ANGLED BACKLIGHT CONTROL
Light Source: (56) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25327 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 218.9
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



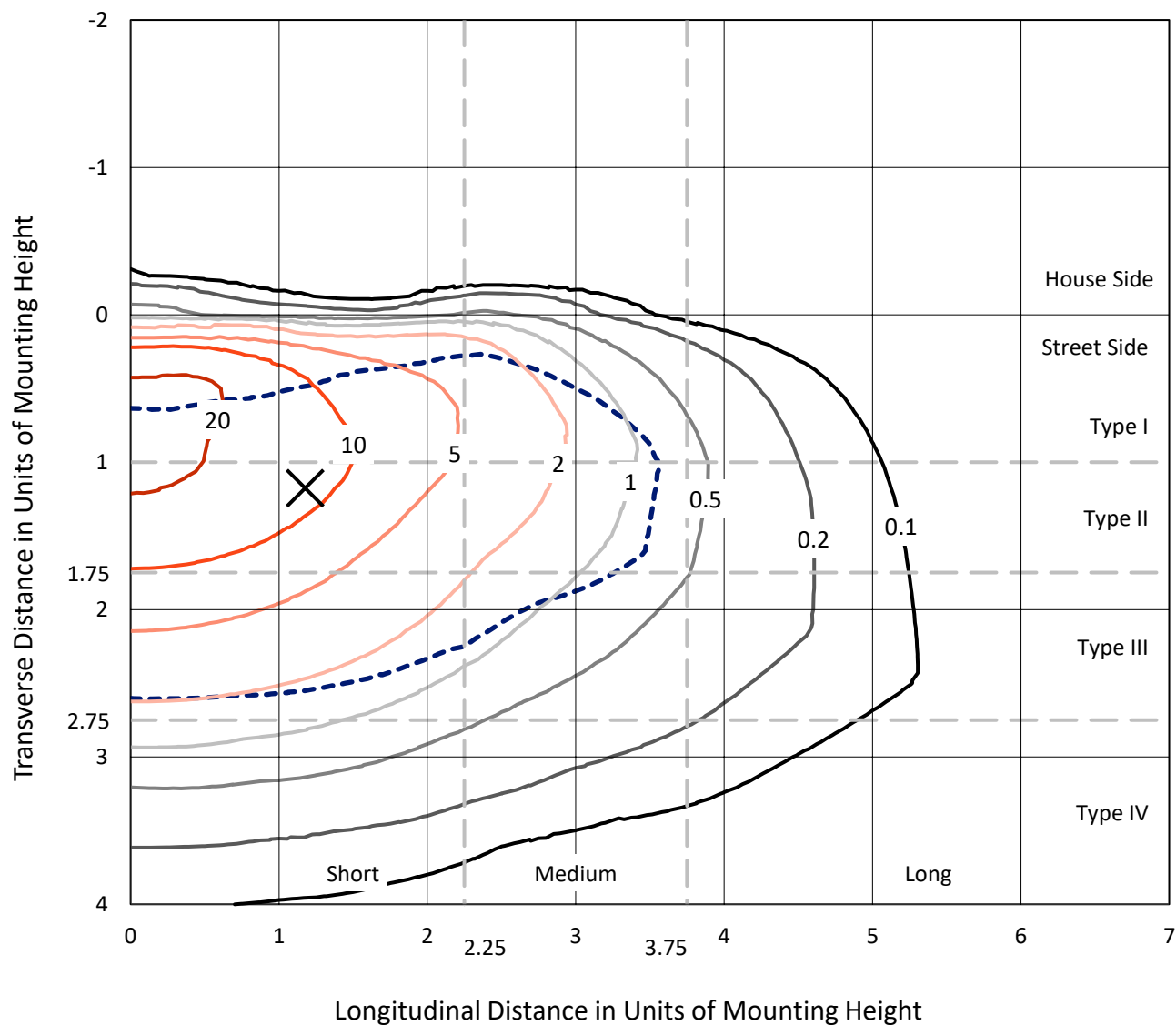
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CATALOG NUMBER: NVN-SA4D-750-U-T3BC

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

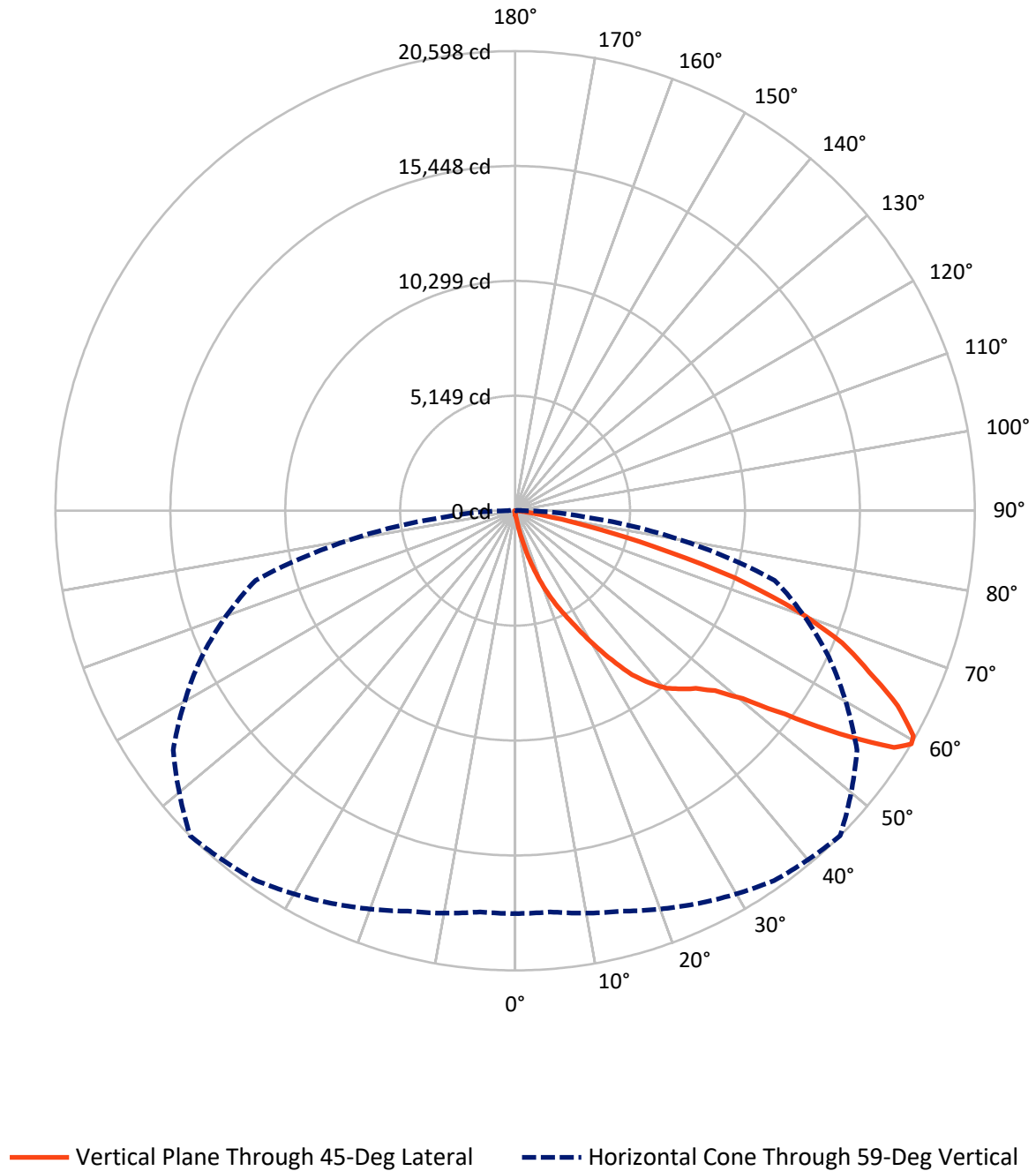


Based on 15 foot mounting height. Maximum calculated value = 27.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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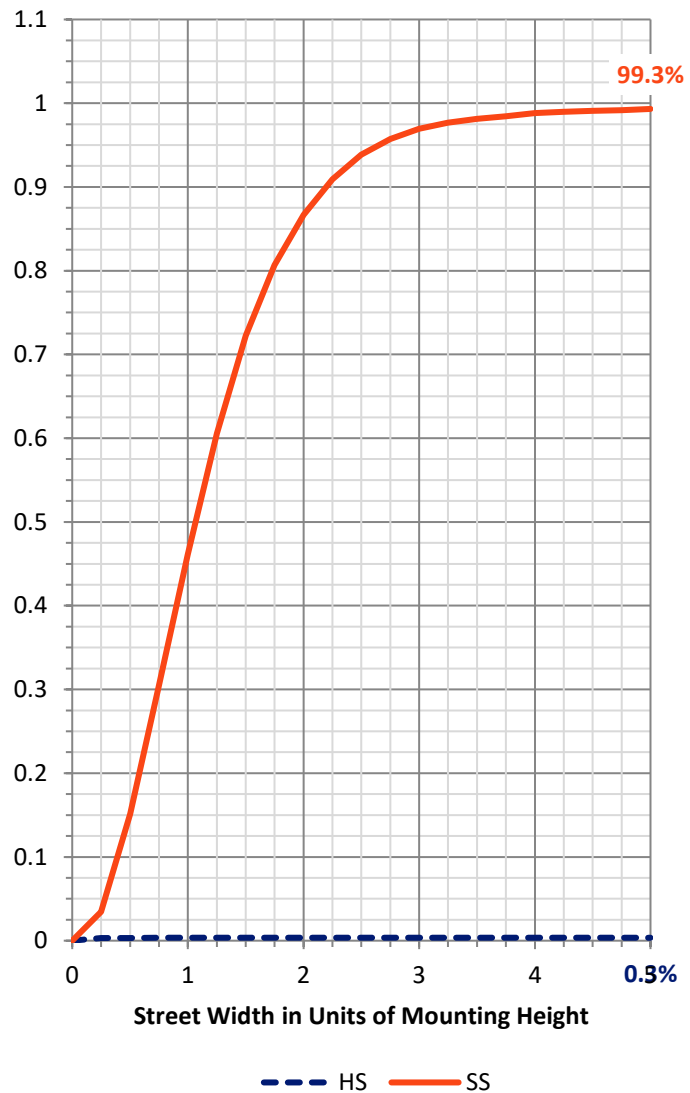
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	89.9	0.0	89.9
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	25237.1	0.0	25237.1
	% Fixture	99.6	0.0	99.6
Total	Lumens	25327.0	0.0	25327.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.5	0.1
10°-20°	279.9	1.1
20°-30°	1005.9	4.0
30°-40°	2337.3	9.2
40°-50°	3983.8	15.7
50°-60°	6564.3	25.9
60°-70°	7589.7	30.0
70°-80°	3260.8	12.9
80°-90°	281.8	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°	25327.0	100.0
0°-180°	25327.0	100.0



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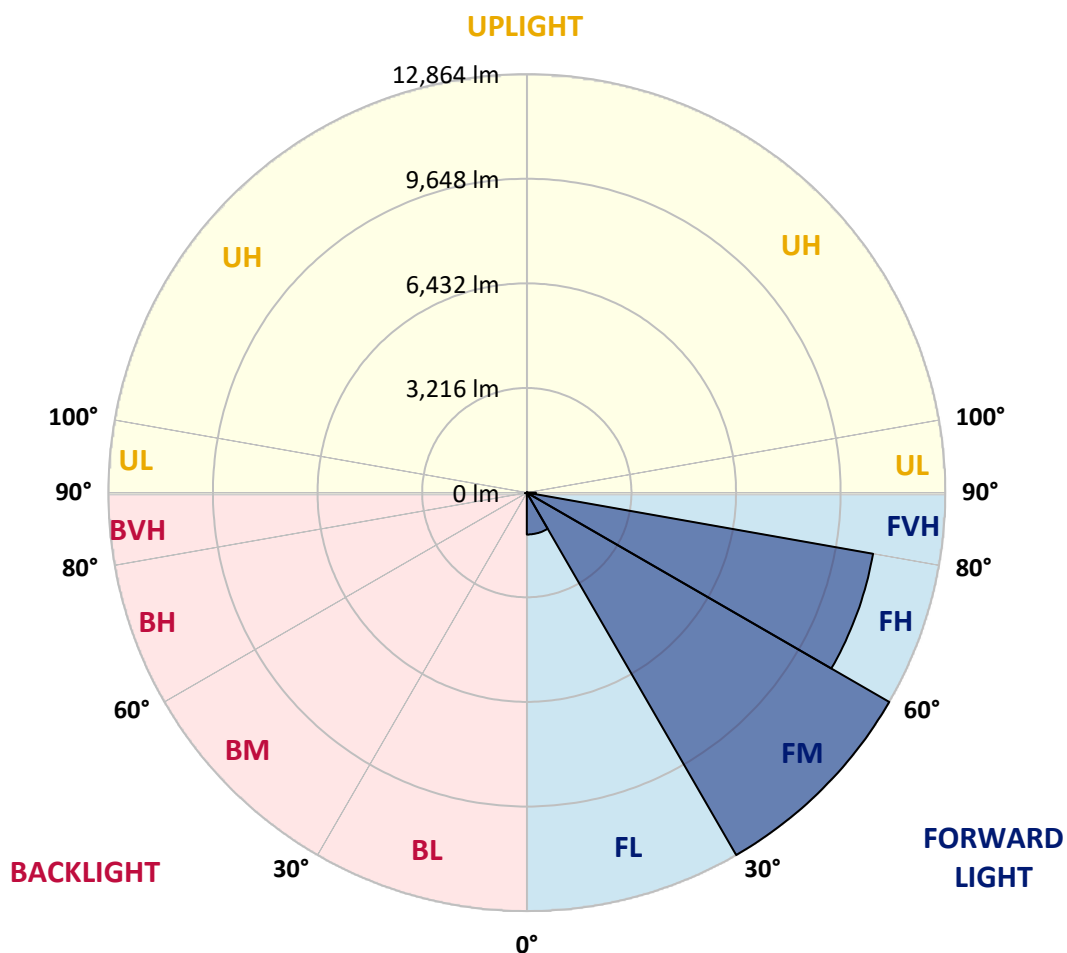
CATALOG NUMBER: NVN-SA4D-750-U-T3BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1287.1	5.1			
FM	(30°-60°)	12863.7	50.8			
FH	(60°-80°)	10808.2	42.7			G4/12000
FVH	(80°-90°)	278.1	1.1			G3/500
BL	(0°-30°)	22.2	0.1	B0/110		
BM	(30°-60°)	21.7	0.1	B0/220		
BH	(60°-80°)	42.3	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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CATALOG NUMBER: NVN-SA4D-750-U-T3BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1
2.5°	207.8	207.8	202.7	195.8	194.1	189.0	189.0	183.9	177.1	172.0	165.2
5°	301.4	299.7	286.1	269.1	246.9	233.3	233.3	214.6	197.5	182.2	168.6
7.5°	659.1	643.7	594.3	512.6	405.3	333.8	328.7	267.4	226.5	195.8	170.3
10°	1512.3	1459.5	1389.6	1193.8	882.2	616.5	604.6	390.0	270.8	211.2	173.7
12.5°	2477.9	2520.4	2380.8	2072.5	1708.1	1270.4	1185.3	657.4	357.6	231.6	177.1
15°	3356.6	3346.4	3268.1	3016.0	2595.4	2012.9	1960.2	1142.7	512.6	264.0	180.5
17.5°	4014.0	4002.0	3927.1	3765.3	3441.8	2859.3	2813.4	1822.2	803.8	309.9	183.9
20°	4707.1	4691.8	4586.2	4456.7	4174.1	3678.5	3624.0	2581.7	1258.5	384.9	183.9
22.5°	5538.2	5509.2	5396.8	5177.1	4879.1	4448.2	4398.8	3358.3	1822.2	507.5	192.4
25°	6542.9	6493.5	6338.6	6141.0	5781.7	5209.5	5156.7	4223.4	2501.7	693.1	201.0
27.5°	7689.0	7697.6	7488.1	7154.3	6672.3	6088.2	5989.4	4998.3	3205.0	958.8	211.2
30°	9049.7	8964.6	8670.0	8281.7	7813.4	7069.1	6973.8	5769.8	3995.2	1350.5	228.2
32.5°	10323.6	10231.6	9834.8	9346.1	8843.7	8058.6	7980.3	6636.6	4713.9	1813.7	258.9
35°	11416.9	11352.2	10797.0	10201.0	9754.8	9053.1	9029.3	7603.9	5558.6	2312.7	292.9
37.5°	12379.1	12261.6	11548.0	10929.8	10476.8	9848.4	9797.4	8489.4	6372.6	2891.7	344.0
40°	13199.9	13135.2	12265.0	11452.7	11084.8	10522.8	10458.1	9266.0	7213.9	3564.4	407.0
42.5°	14078.7	13993.5	13148.9	12237.8	11560.0	10958.8	10916.2	9906.3	7963.2	4303.5	500.7
45°	15071.5	14913.2	14172.4	13354.9	12324.6	11410.1	11362.4	10476.8	8731.3	5097.1	614.8
47.5°	16132.5	15994.6	15395.1	14821.2	13635.9	12154.3	12052.1	10962.2	9494.2	6013.3	759.5
50°	17212.2	17215.6	16766.0	16490.1	15238.4	13363.4	13218.7	11675.8	10296.3	6994.2	974.1
52.5°	18469.0	18501.4	18494.6	18290.2	17319.5	15340.6	15146.5	12758.9	11227.9	8138.6	1270.4
55°	18995.2	19053.2	19429.5	19882.5	19618.5	17847.4	17639.7	14627.1	12462.5	9414.2	1709.8
57.5°	18564.4	18629.1	19148.5	19942.1	20548.4	20042.6	20018.8	17058.9	14088.9	10960.5	2428.5
59°	18051.8	18043.3	18576.3	19417.6	20235.0	20563.7	20597.8	18704.0	15505.8	12045.3	3048.4
60°	17711.2	17718.0	18072.2	18935.6	19804.2	20374.7	20507.5	19673.0	16333.5	12825.3	3579.7
62.5°	16396.5	16474.8	16755.8	17557.9	18382.2	19019.1	19245.6	20536.5	18702.3	14667.9	5427.5
65°	14967.7	14972.8	15373.0	16059.3	16849.5	17297.4	17440.4	19192.8	20284.4	16544.6	7850.8
67.5°	12418.3	12522.2	12976.9	14088.9	15132.8	15699.9	15808.9	16706.4	19628.8	17767.4	9065.1
70°	8690.4	8826.6	9475.5	10917.9	12472.8	13404.3	13397.5	13888.0	17275.2	17222.4	7685.6
72.5°	4339.2	4574.3	5103.9	6648.5	8532.0	9994.9	10303.1	11171.7	13877.7	14305.2	5734.0
75°	1917.6	1931.2	2232.6	3010.9	4240.5	6098.4	6374.3	8867.5	10647.1	9942.1	4141.7
77.5°	1115.5	1125.7	1180.2	1352.2	1718.3	2988.8	3298.7	5815.7	7523.8	5778.3	2701.0
80°	405.3	415.5	413.8	512.6	752.7	1176.8	1311.3	2818.5	5018.7	3043.3	1415.2
82.5°	248.6	248.6	240.1	241.8	274.2	451.3	493.9	1200.6	2443.8	1498.6	405.3
85°	122.6	129.4	137.9	155.0	183.9	223.1	236.7	344.0	822.5	362.7	97.1
87.5°	73.2	74.9	81.7	98.8	122.6	160.1	170.3	233.3	294.6	243.5	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: NVN-SA4D-750-U-T3BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1
2.5°	161.8	160.1	151.6	144.8	137.9	131.1	126.0	120.9	120.9	122.6	120.9
5°	161.8	155.0	141.3	129.4	119.2	110.7	102.2	95.4	93.7	93.7	95.4
7.5°	160.1	151.6	132.8	117.5	103.9	92.0	83.4	74.9	73.2	74.9	73.2
10°	158.4	148.2	126.0	107.3	88.6	76.6	64.7	56.2	56.2	56.2	57.9
12.5°	158.4	143.1	119.2	97.1	76.6	63.0	51.1	42.6	40.9	40.9	40.9
15°	156.7	139.6	112.4	85.1	64.7	47.7	37.5	29.0	29.0	29.0	29.0
17.5°	153.3	134.5	103.9	74.9	51.1	35.8	25.5	17.0	17.0	20.4	20.4
20°	149.9	129.4	93.7	61.3	42.6	27.2	17.0	10.2	10.2	15.3	17.0
22.5°	151.6	129.4	86.9	54.5	34.1	20.4	13.6	8.5	6.8	11.9	15.3
25°	153.3	126.0	78.3	47.7	25.5	15.3	10.2	3.4	1.7	3.4	5.1
27.5°	153.3	122.6	68.1	37.5	18.7	11.9	5.1	0.0	0.0	0.0	0.0
30°	151.6	117.5	59.6	30.7	13.6	6.8	1.7	0.0	0.0	0.0	0.0
32.5°	149.9	112.4	54.5	23.8	11.9	3.4	0.0	0.0	0.0	0.0	0.0
35°	151.6	105.6	47.7	18.7	6.8	0.0	0.0	0.0	0.0	0.0	3.4
37.5°	156.7	98.8	40.9	15.3	5.1	0.0	0.0	0.0	0.0	0.0	0.0
40°	163.5	93.7	34.1	11.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	177.1	93.7	30.7	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	194.1	93.7	25.5	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	216.3	95.4	22.1	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	243.5	98.8	20.4	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	264.0	95.4	18.7	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	299.7	92.0	17.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	347.4	86.9	17.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	395.1	80.0	17.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	449.6	76.6	15.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	742.5	68.1	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1433.9	64.7	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2317.8	64.7	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2437.0	64.7	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1621.3	52.8	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	868.5	47.7	5.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	468.3	44.3	6.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	206.1	32.4	8.5	5.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	81.7	22.1	10.2	8.5	6.8	3.4	0.0	0.0	0.0	0.0	0.0
85°	39.2	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

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-6

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-750-U-5WQ

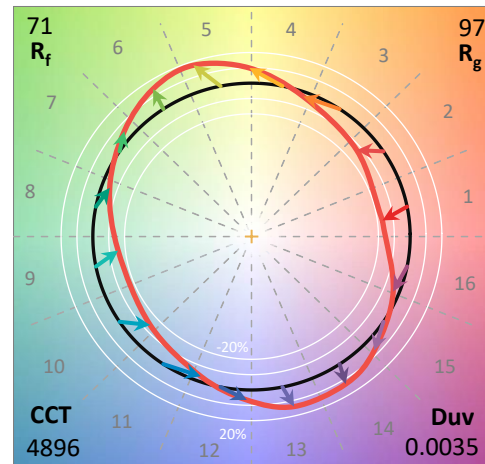
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-6
 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-750-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K):	4896	CRI (Ra):	70.2		
CIE u':	0.2101	R1:	68.1	R9:	-35.1
CIE v':	0.4901	R2:	73.9	R10:	39.3
Duv:	0.0035	R3:	79.4	R11:	71.1
CIE x:	0.3489	R4:	72.1	R12:	43.8
CIE y:	0.3618	R5:	69.2	R13:	68.1
CIE z:	0.2893	R6:	65.7	R14:	88.4
Peak Wavelength (nm):	443	R7:	78.1	R15:	59.7
Dominant Wavelength (nm):	570	R8:	55.3		
Purity:	13.25435				
Rf:	70.7				
Rg:	96.8				



Test Conditions

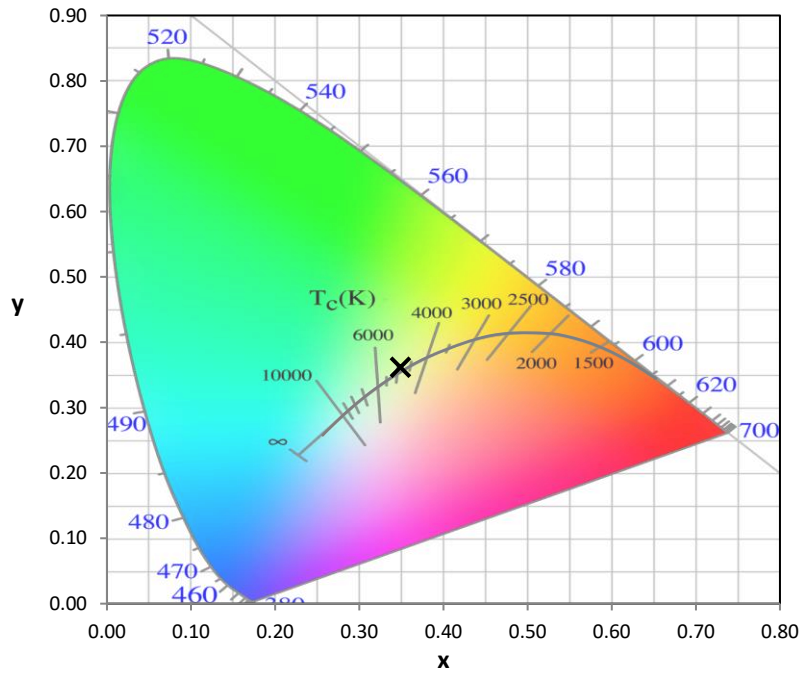
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

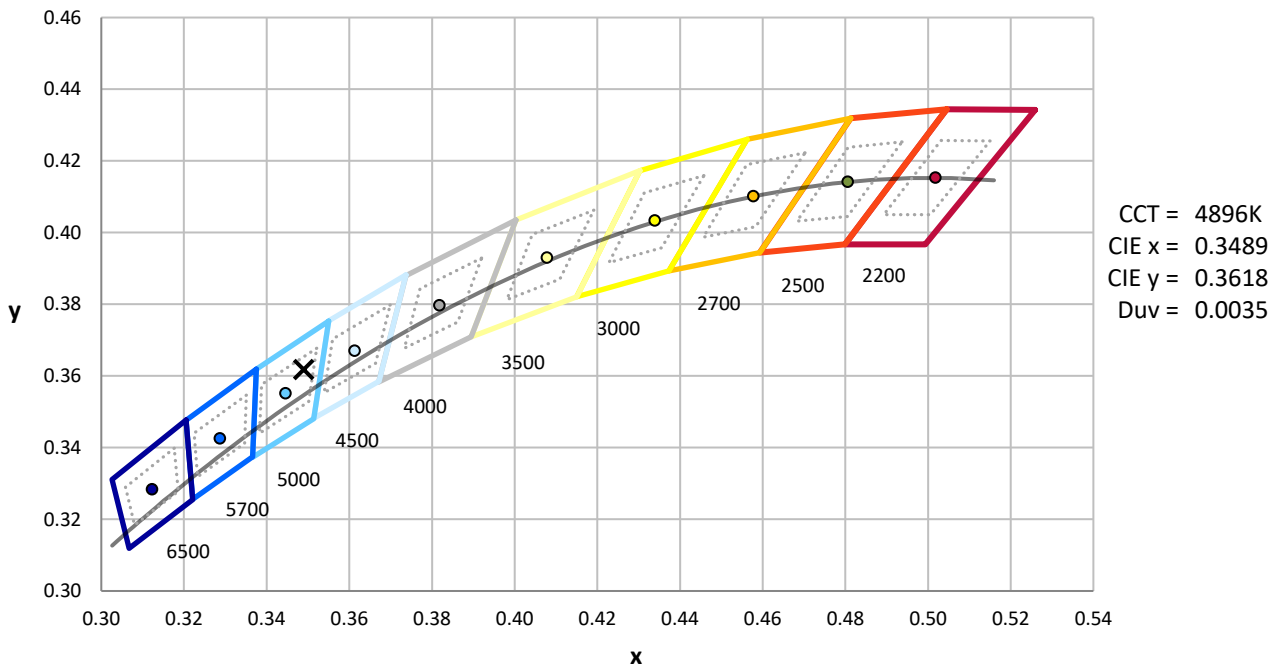
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



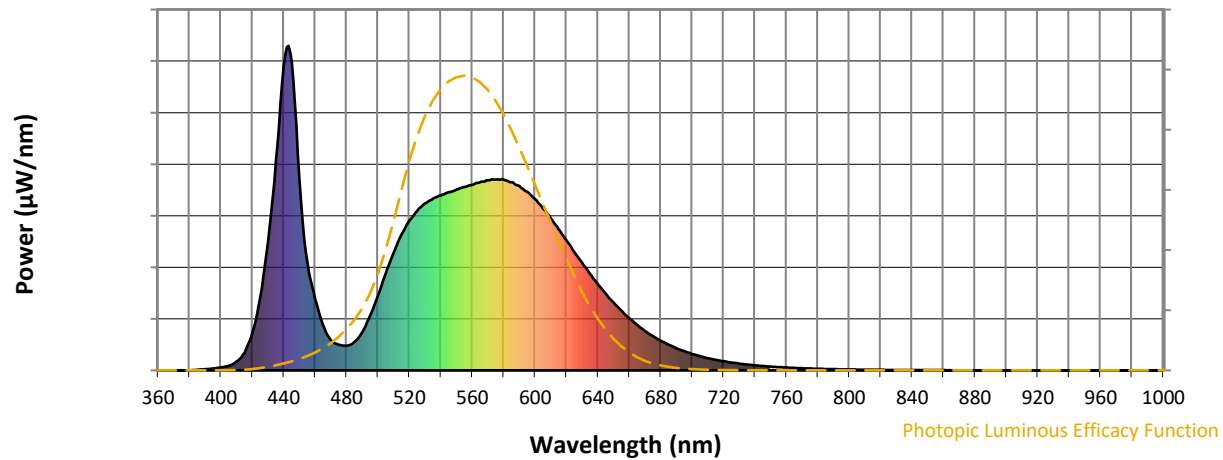
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

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Photopic Flux vs. Wavelength

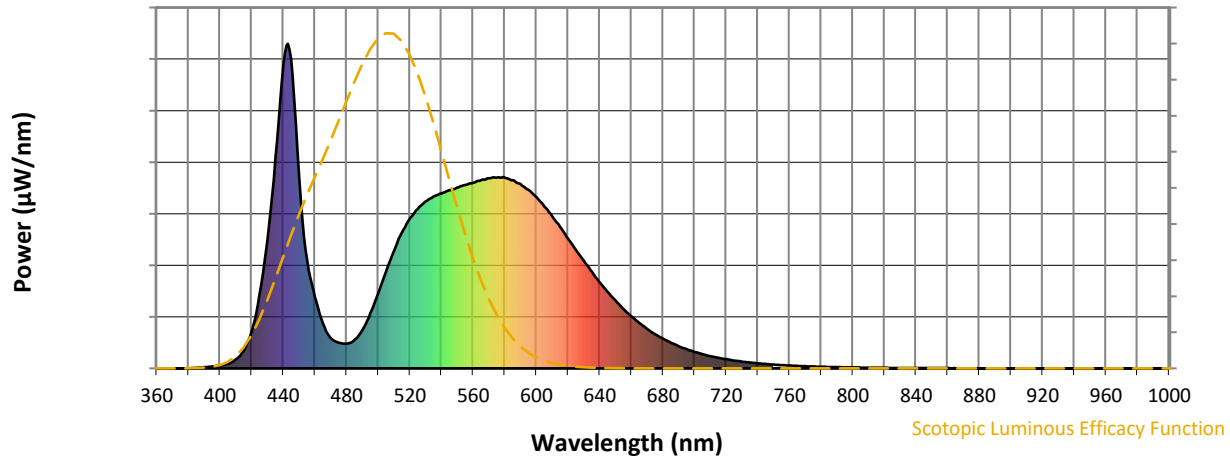


Photopic Lumens: NR

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

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Scotopic Flux vs. Wavelength



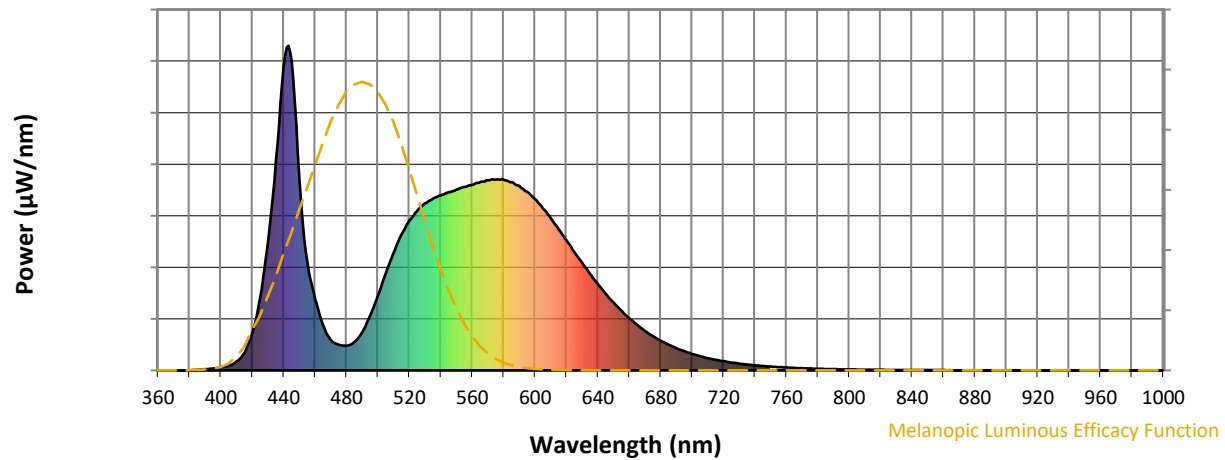
Scotopic Lumens: NR

S/P: 1.7

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.37

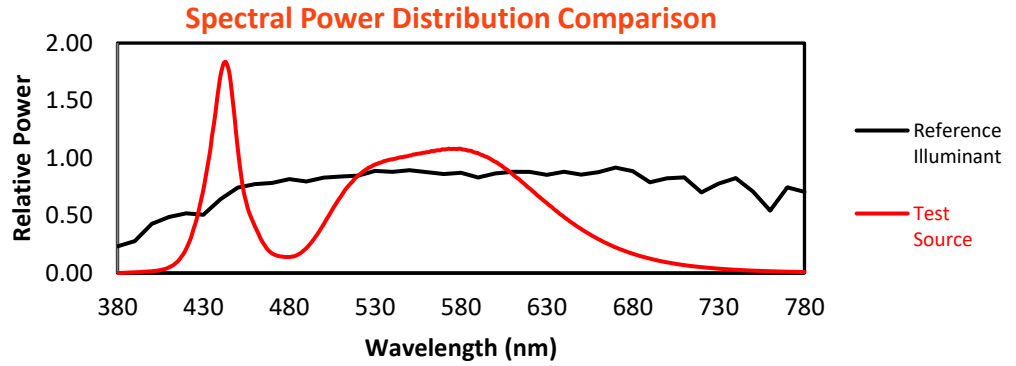
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

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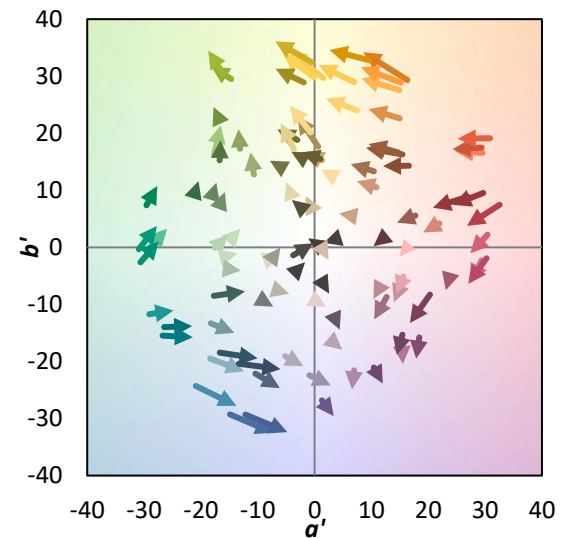
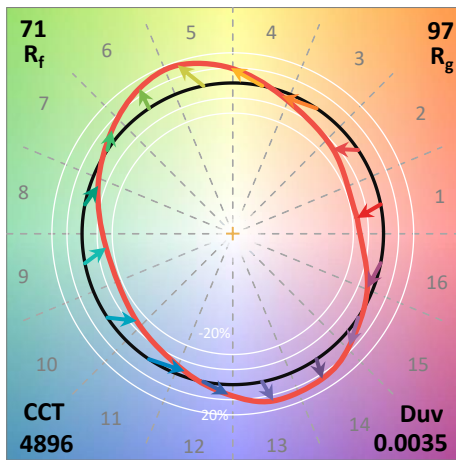
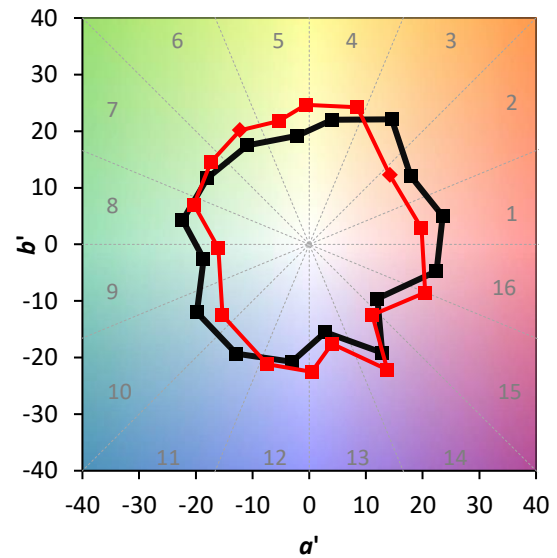
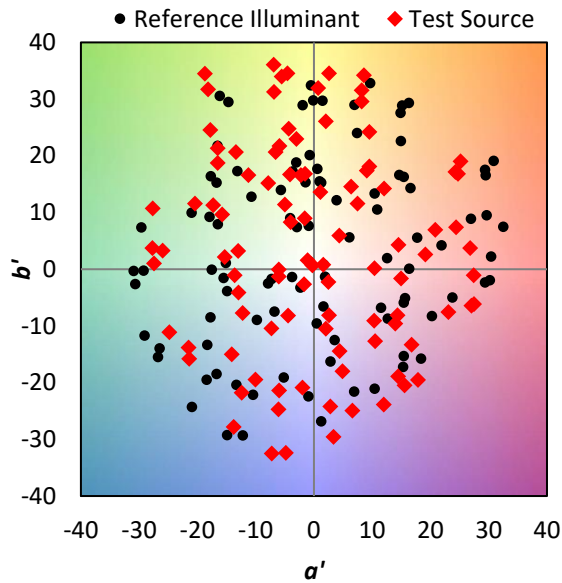
TM-30-18

Summary

$R_f = 70.7$
 $R_g = 96.8$
 CIE $R_a = 70.2$
 $R_g = -35.1$

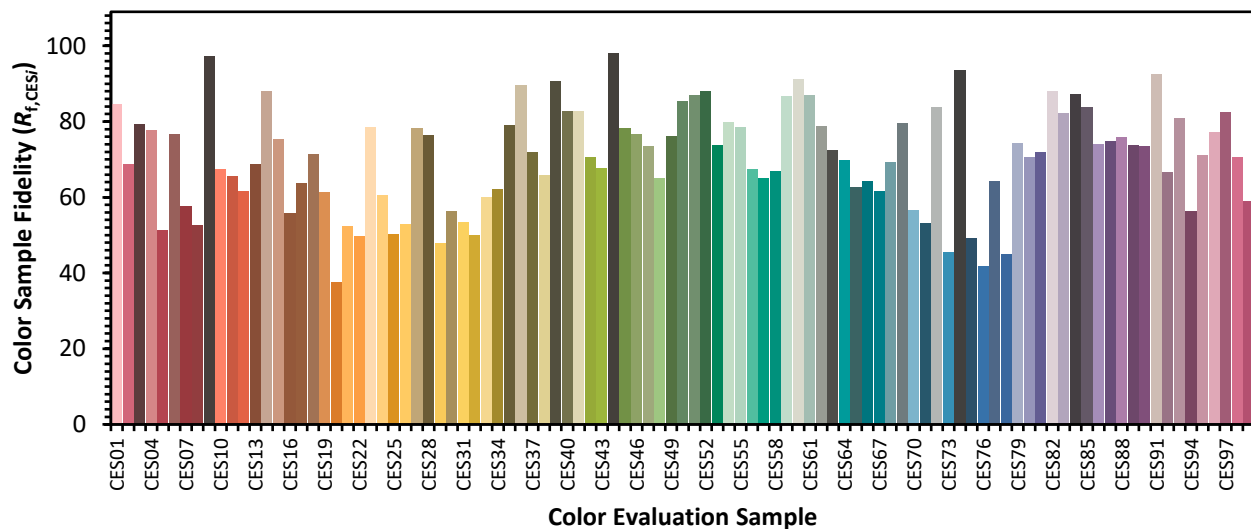


Color Vector Graphics

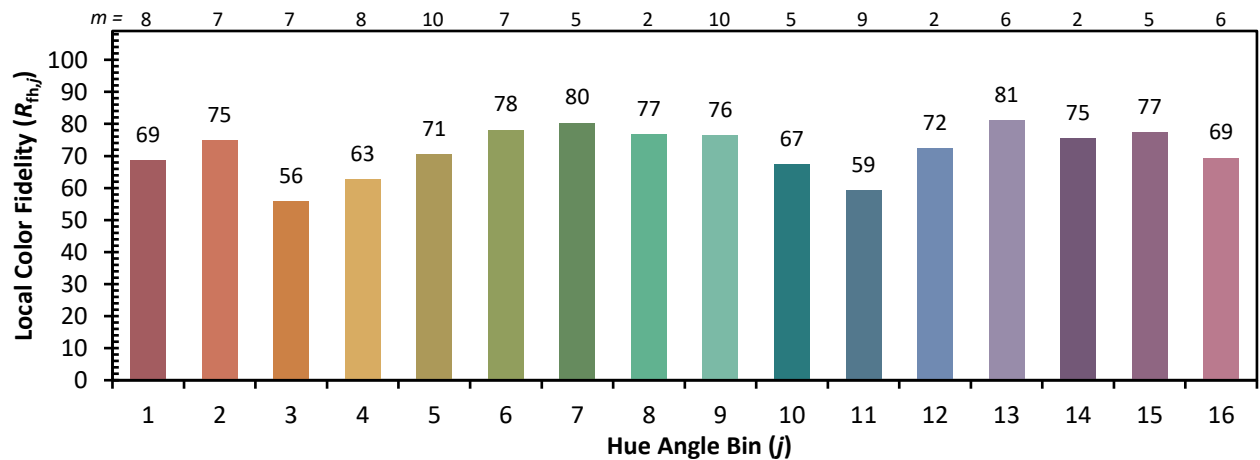
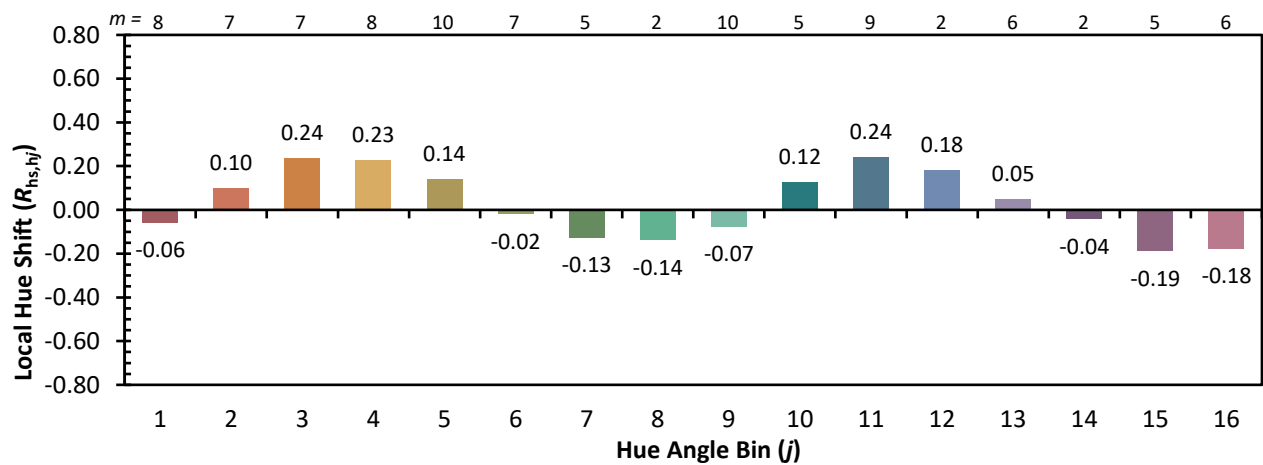
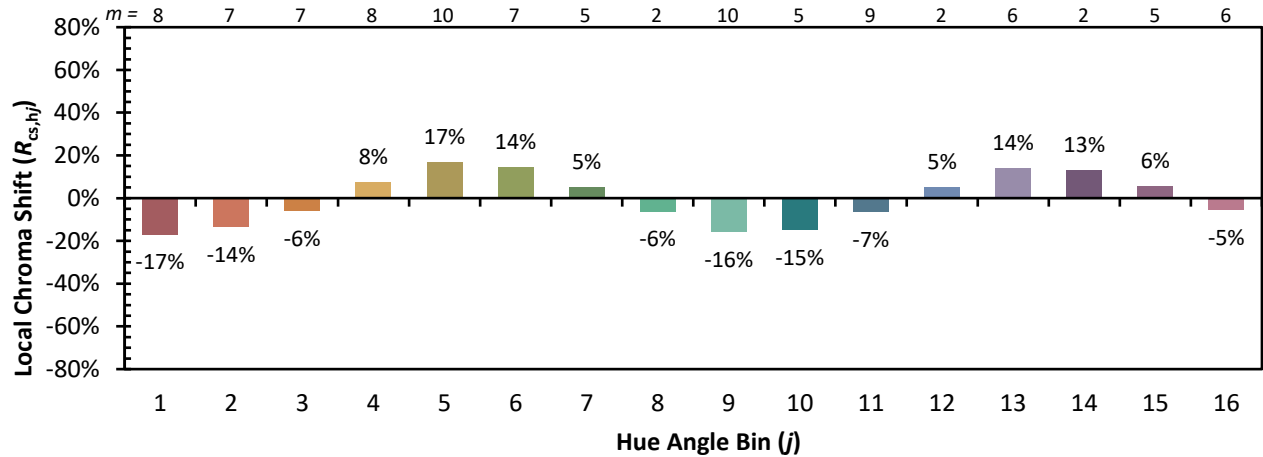


Individual Sample Fidelity Index ($R_{f,i}$)

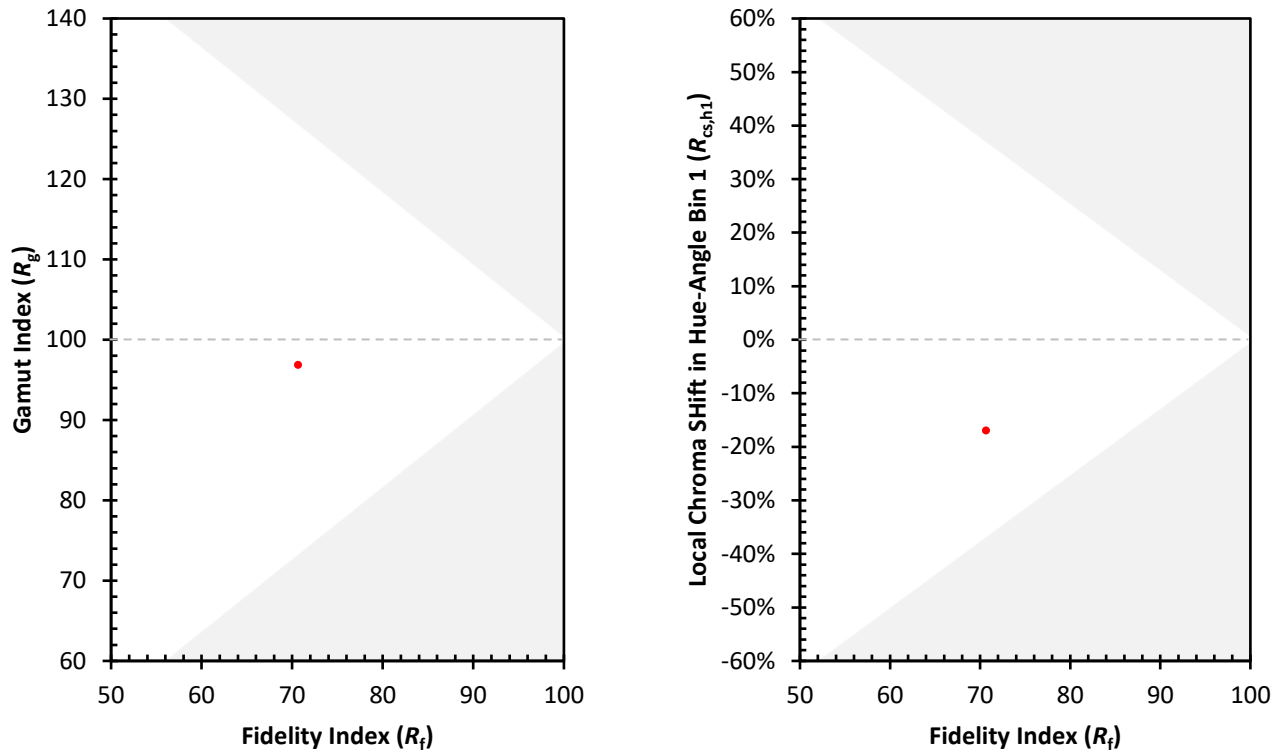
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82 = 88
CES08 = 38	CES33 = 60	CES58 = 67	CES83 = 82
CES09 = 29	CES34 = 62	CES59 = 87	CES84 = 87
CES10 = 72	CES35 = 79	CES60 = 91	CES85 = 84
CES11 = 56	CES36 = 90	CES61 = 87	CES86 = 74
CES12 = 61	CES37 = 72	CES62 = 79	CES87 = 75
CES13 = 41	CES38 = 66	CES63 = 72	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 70	CES89 = 74
CES15 = 70	CES40 = 83	CES65 = 63	CES90 = 73
CES16 = 46	CES41 = 83	CES66 = 64	CES91 = 92
CES17 = 49	CES42 = 70	CES67 = 62	CES92 = 67
CES18 = 55	CES43 = 68	CES68 = 69	CES93 = 81
CES19 = 71	CES44 = 98	CES69 = 80	CES94 = 56
CES20 = 64	CES45 = 78	CES70 = 56	CES95 = 71
CES21 = 85	CES46 = 77	CES71 = 53	CES96 = 77
CES22 = 77	CES47 = 73	CES72 = 84	CES97 = 82
CES23 = 91	CES48 = 65	CES73 = 46	CES98 = 71
CES24 = 90	CES49 = 76	CES74 = 94	CES99 = 59
CES25 = 71	CES50 = 85	CES75 = 49	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)