

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: LUMARK

Report Number: P1067232

Luminaire Tested: **NAV-SA3D-730-U-T2BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067232
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3D-730-U-T2BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 3xLight Square PACKAGE
70CRI 3000K FIXTURE w/ TYPE II ANGLED BACKLIGHT CONTROL
Light Source: (42) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16386.2 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 160.9
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

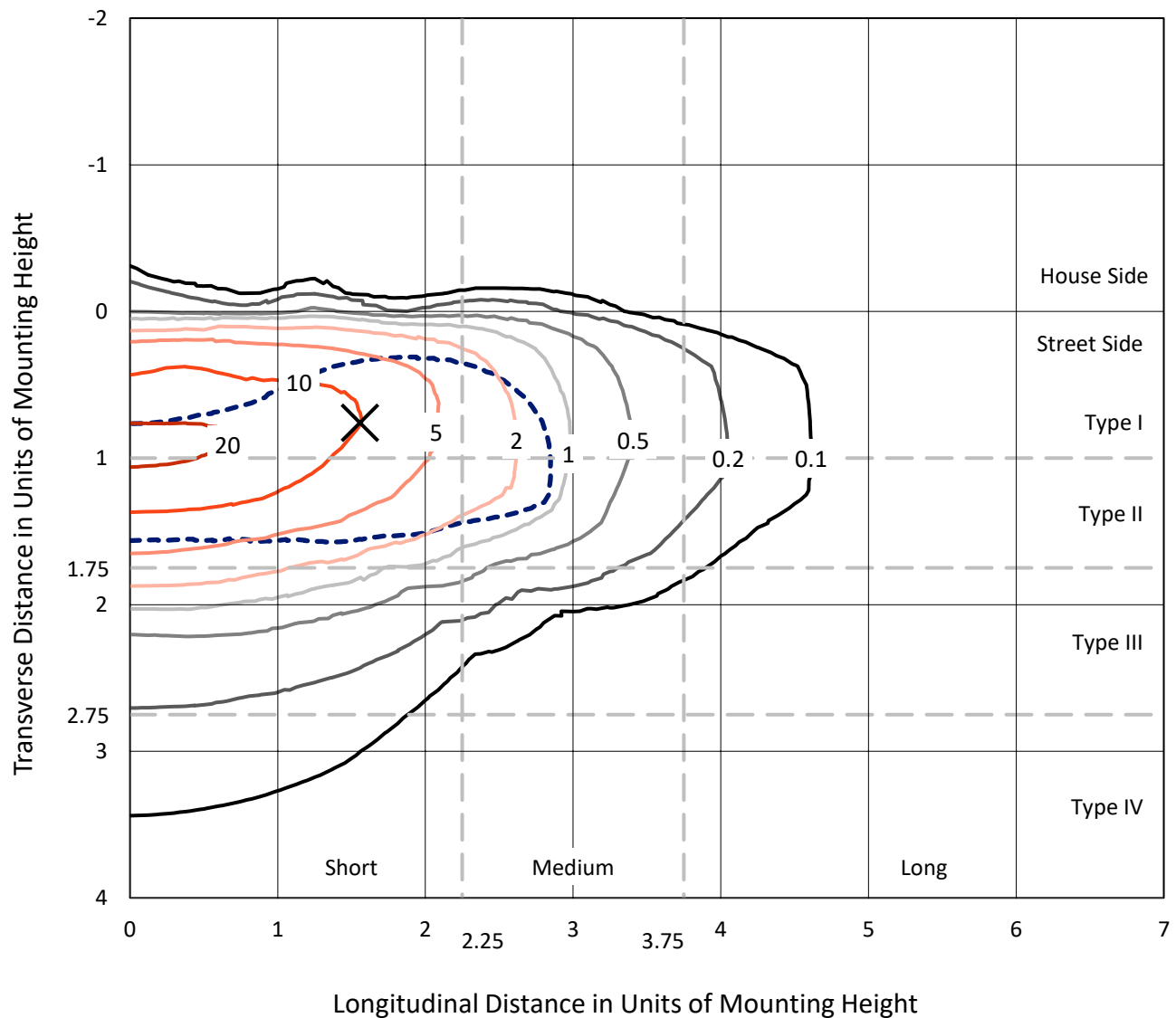


REPORT NUMBER: P1067232

CATALOG NUMBER: NAV-SA3D-730-U-T2BC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

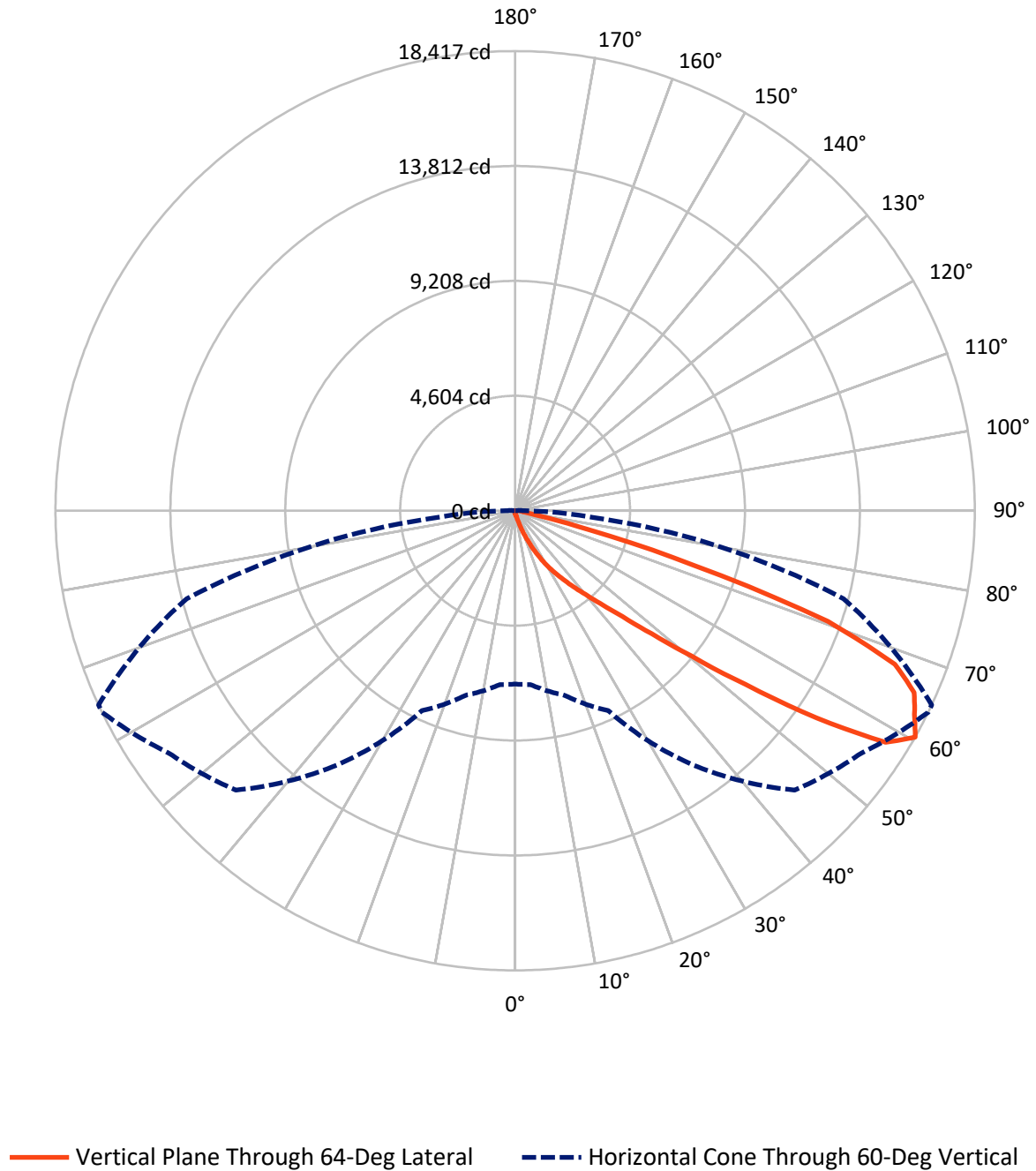


Based on 15 foot mounting height. Maximum calculated value = 23.5 fc
 Type II - Short - N/A

REPORT NUMBER: P1067232

CATALOG NUMBER: NAV-SA3D-730-U-T2BC

Luminous Intensity Polar Plot



REPORT NUMBER: P1067232

CATALOG NUMBER: NAV-SA3D-730-U-T2BC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	66.4	0.0	66.4
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	16319.8	0.0	16319.8
	% Fixture	99.6	0.0	99.6
Total	Lumens	16386.2	0.0	16386.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.3	0.1
10°-20°	161.0	1.0
20°-30°	534.8	3.3
30°-40°	1427.0	8.7
40°-50°	3627.1	22.1
50°-60°	5287.6	32.3
60°-70°	4084.2	24.9
70°-80°	1121.6	6.8
80°-90°	126.6	0.8
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°	16386.2	100.0
0°-180°	16386.2	100.0



REPORT NUMBER: P1067232

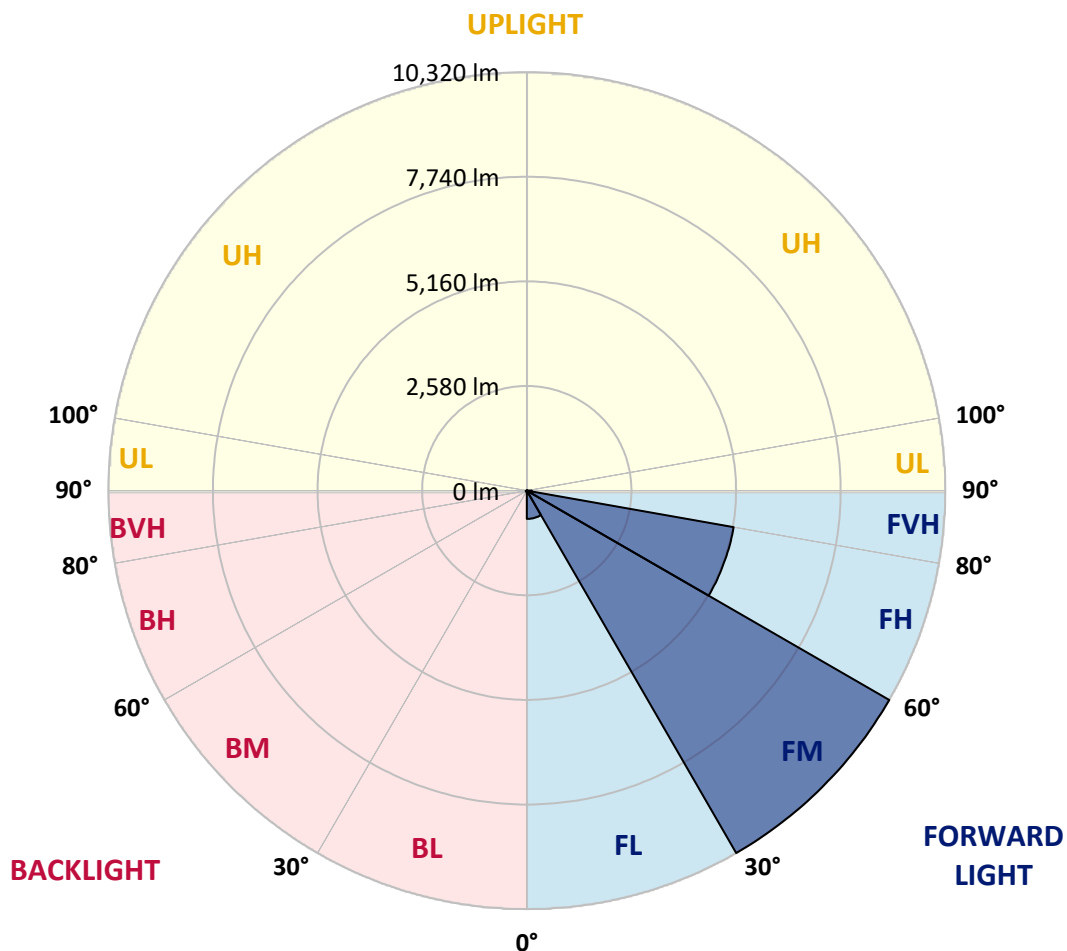
CATALOG NUMBER: NAV-SA3D-730-U-T2BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	697.2	4.3			
FM	(30°-60°)	10319.8	63.0			
FH	(60°-80°)	5179.2	31.6			G3/7500
FVH	(80°-90°)	123.6	0.8			G2/225
BL	(0°-30°)	14.9	0.1	B0/110		
BM	(30°-60°)	22.0	0.1	B0/220		
BH	(60°-80°)	26.5	0.2	B0/110		G0/110
BVH	(80°-90°)	3.0	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-G3

Type II Short



REPORT NUMBER: P1067232

CATALOG NUMBER: NAV-SA3D-730-U-T2BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3
2.5°	144.3	144.3	144.3	139.8	135.3	135.3	130.8	126.3	126.3	117.3	112.8
5°	221.0	221.0	212.0	203.0	189.4	171.4	153.4	139.8	139.8	126.3	117.3
7.5°	433.0	446.5	405.9	356.3	288.7	243.6	194.0	162.4	157.9	135.3	117.3
10°	938.2	929.2	866.0	744.2	586.4	424.0	270.6	198.5	189.4	144.3	117.3
12.5°	1411.8	1425.3	1357.7	1222.4	1032.9	753.3	464.6	257.1	248.1	157.9	117.3
15°	1817.8	1817.8	1772.6	1705.0	1497.5	1204.3	748.8	383.4	351.8	171.4	112.8
17.5°	2097.4	2092.9	2074.9	2056.8	1935.0	1632.8	1145.7	613.4	541.3	203.0	112.8
20°	2413.1	2399.6	2422.2	2386.1	2291.4	2052.3	1565.2	911.1	843.5	257.1	112.8
22.5°	2742.4	2755.9	2774.0	2737.9	2634.2	2426.7	2007.2	1294.5	1222.4	356.3	117.3
25°	3161.9	3152.9	3193.5	3161.9	3031.1	2787.5	2422.2	1714.0	1610.3	496.2	126.3
27.5°	3676.1	3658.1	3685.1	3603.9	3432.5	3184.4	2792.0	2142.5	2020.7	712.7	144.3
30°	4357.2	4370.7	4248.9	4154.2	3910.6	3581.4	3202.5	2602.6	2476.3	969.8	162.4
32.5°	5430.7	5336.0	5146.5	4763.1	4442.9	4023.4	3612.9	3004.0	2891.3	1299.0	189.4
35°	7104.1	7122.2	6707.2	5760.0	5065.3	4578.2	4064.0	3446.1	3364.9	1673.4	225.5
37.5°	9142.9	9093.3	8727.9	7532.6	5976.5	5268.3	4578.2	3928.7	3811.4	2079.4	270.6
40°	11452.3	11244.8	11032.8	10220.9	7875.4	6134.3	5227.7	4488.0	4397.8	2548.5	342.8
42.5°	13301.6	13247.5	13283.6	12945.3	11041.8	7609.3	6089.2	5173.6	5065.3	3130.3	469.1
45°	14212.7	14136.1	14352.6	14605.2	14118.0	10748.6	7478.5	6048.6	5904.3	3815.9	663.1
47.5°	13969.2	13915.0	14379.6	14875.8	15525.3	14388.6	9747.3	7356.7	7108.6	4695.5	951.7
50°	12769.4	12773.9	13536.2	14460.8	15489.2	16233.5	13107.6	9147.4	8836.2	5863.7	1402.8
52.5°	11601.1	11637.2	12444.6	13793.3	14952.5	16450.0	16057.5	11560.5	11055.4	7239.4	1935.0
55°	10401.3	10419.4	11132.0	13031.0	14699.9	15805.0	17573.1	14668.3	14131.5	8953.4	2453.7
57.5°	9246.6	9246.6	9512.7	11199.7	14424.7	15746.3	17392.7	17509.9	17072.4	10911.0	2837.1
60°	6946.2	6991.3	7654.4	8836.2	12440.1	15832.0	16932.6	18416.6	18416.6	13626.4	3130.3
62.5°	3509.2	3576.9	4402.3	5552.5	8534.0	14650.3	17004.8	17961.0	18033.2	16021.5	3797.9
65°	1646.3	1723.0	2165.1	2977.0	4591.7	10311.1	16256.0	17573.1	17550.5	15565.9	5205.2
67.5°	1181.8	1204.3	1353.2	1736.6	2471.8	4519.6	12408.5	16413.9	16422.9	13224.9	5985.5
70°	1060.0	1060.0	1096.1	1208.8	1488.5	2020.7	6030.6	13292.6	13937.6	10211.9	5548.0
72.5°	1046.4	1037.4	1028.4	1032.9	1005.9	1014.9	2070.3	7505.6	8425.7	7144.7	4424.8
75°	1019.4	1019.4	1010.4	978.8	802.9	654.0	712.7	3035.6	3509.2	4772.2	3283.7
77.5°	807.4	888.6	983.3	924.7	735.2	491.6	415.0	879.6	1109.6	2927.3	2381.6
80°	374.4	378.9	374.4	392.4	469.1	351.8	306.7	428.5	433.0	1623.8	1474.9
82.5°	270.6	275.1	261.6	234.5	207.5	189.4	252.6	315.7	338.3	744.2	550.3
85°	81.2	76.7	90.2	121.8	144.3	166.9	212.0	266.1	279.7	275.1	81.2
87.5°	36.1	36.1	45.1	63.1	85.7	126.3	184.9	243.6	248.1	284.2	22.6
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: P1067232

CATALOG NUMBER: NAV-SA3D-730-U-T2BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3
2.5°	112.8	108.3	103.7	99.2	94.7	90.2	85.7	85.7	90.2	90.2	90.2
5°	108.3	103.7	94.7	85.7	81.2	76.7	72.2	72.2	76.7	76.7	76.7
7.5°	108.3	99.2	90.2	81.2	72.2	67.7	63.1	63.1	63.1	67.7	67.7
10°	108.3	99.2	85.7	72.2	63.1	58.6	54.1	49.6	54.1	54.1	54.1
12.5°	103.7	94.7	81.2	67.7	54.1	45.1	40.6	40.6	40.6	40.6	40.6
15°	99.2	90.2	76.7	58.6	45.1	36.1	27.1	27.1	27.1	31.6	31.6
17.5°	94.7	85.7	67.7	45.1	31.6	22.6	18.0	18.0	18.0	22.6	22.6
20°	94.7	81.2	58.6	36.1	22.6	13.5	9.0	9.0	9.0	13.5	18.0
22.5°	94.7	81.2	54.1	27.1	13.5	9.0	4.5	4.5	4.5	4.5	4.5
25°	94.7	76.7	49.6	22.6	9.0	4.5	0.0	0.0	4.5	9.0	13.5
27.5°	94.7	72.2	40.6	13.5	9.0	4.5	0.0	4.5	9.0	9.0	9.0
30°	94.7	72.2	36.1	13.5	4.5	0.0	0.0	4.5	9.0	9.0	13.5
32.5°	99.2	67.7	31.6	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	103.7	63.1	27.1	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	112.8	63.1	18.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	126.3	67.7	18.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	157.9	72.2	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	221.0	90.2	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	324.8	135.3	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	473.6	184.9	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	581.9	184.9	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	577.4	117.3	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	442.0	81.2	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	374.4	58.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	451.1	45.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	802.9	40.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1290.0	40.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1443.4	40.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1127.6	36.1	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	617.9	31.6	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	311.2	22.6	9.0	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	130.8	18.0	9.0	4.5	4.5	4.5	0.0	0.0	0.0	0.0	0.0
82.5°	45.1	18.0	9.0	9.0	4.5	4.5	0.0	0.0	0.0	0.0	0.0
85°	22.6	13.5	13.5	9.0	9.0	4.5	4.5	0.0	0.0	0.0	0.0
87.5°	13.5	13.5	13.5	9.0	9.0	4.5	4.5	0.0	0.0	0.0	4.5
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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-4
 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-730-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	2985	CRI (Ra):	70.8		
CIE u':	0.2504	R1:	66.3	R9:	-43.2
CIE v':	0.5243	R2:	80.6	R10:	57.6
Duv:	0.0019	R3:	94.5	R11:	64.8
CIE x:	0.4408	R4:	68.2	R12:	53.5
CIE y:	0.4101	R5:	66.5	R13:	68.7
CIE z:	0.1491	R6:	74.7	R14:	97.0
Peak Wavelength (nm):	595	R7:	76.2	R15:	56.4
Dominant Wavelength (nm):	582	R8:	39.6		
Purity:	55.41818				
Rf:	73.8				
Rg:	94.4				



Test Conditions

Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

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: SP1-2407-184-4

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: SP1-2407-184-4

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.19

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

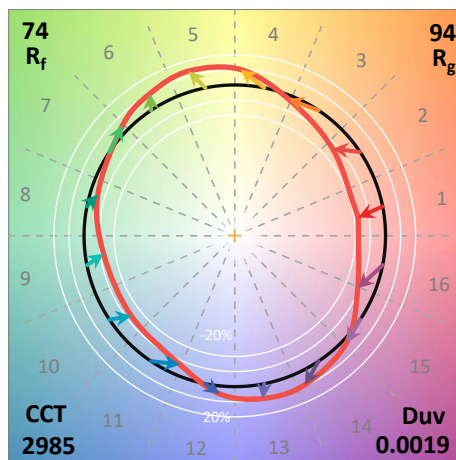
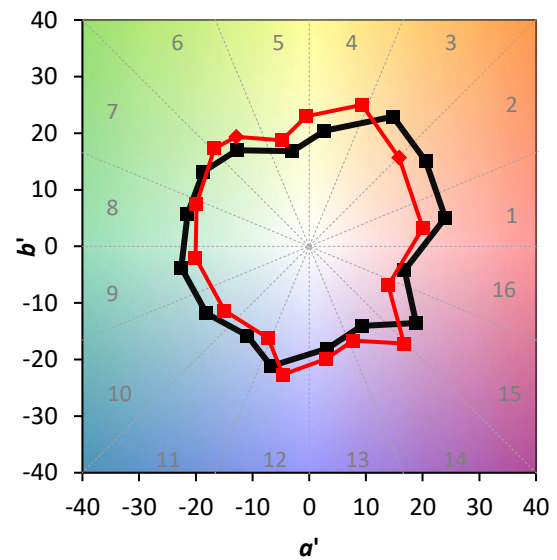
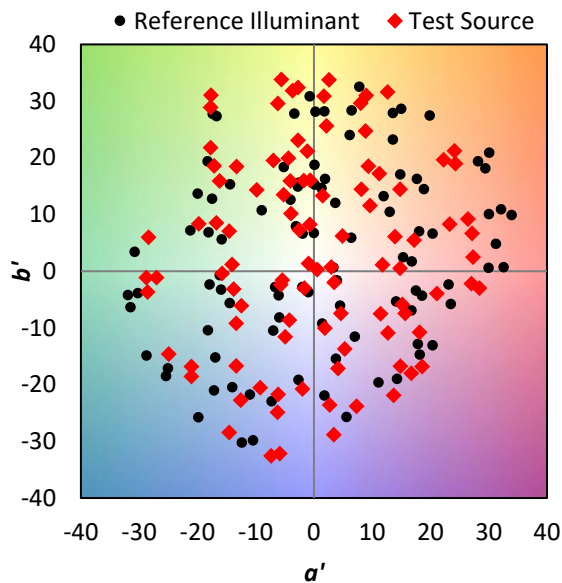
TM-30-18

Summary

$R_f = 73.8$
 $R_g = 94.4$
 $CIE R_a = 70.8$
 $R_g = -43.2$



Color Vector Graphics

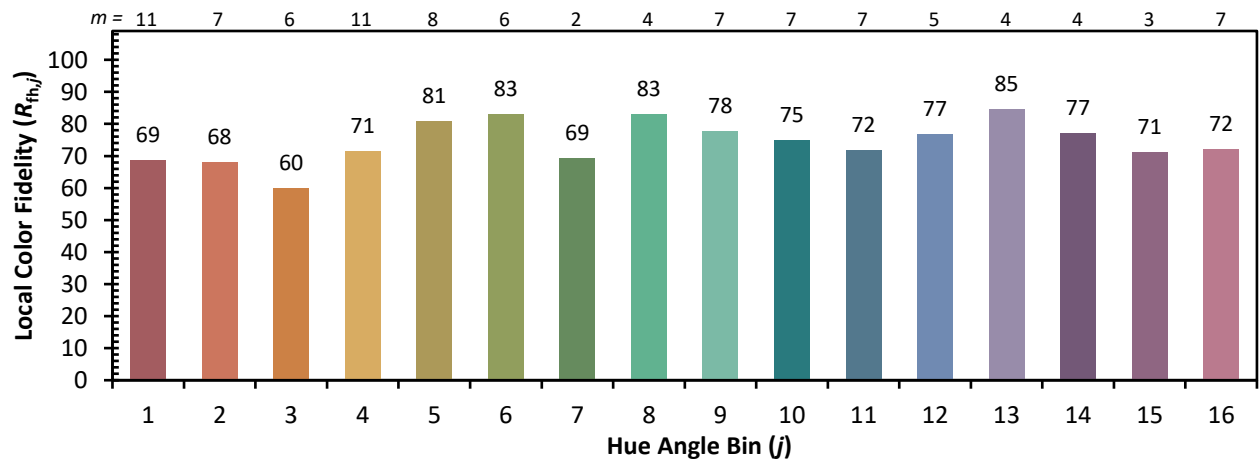


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)