

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: P1067478

Luminaire Tested: **NAV-SA5B-730-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067478
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5B-730-U-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 5xLight Square PACKAGE
70CRI 3000K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (70) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20195.5 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 178.8
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

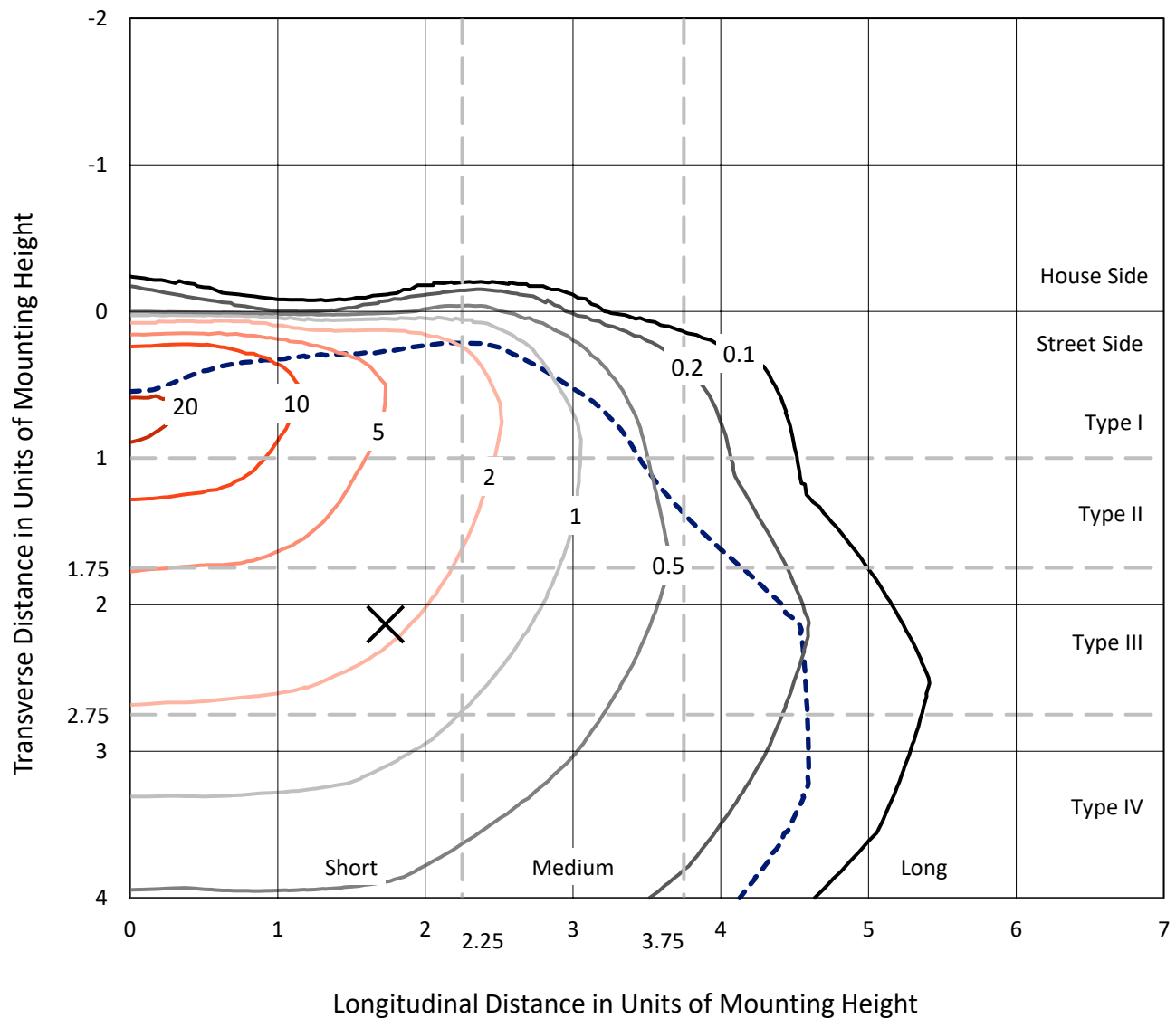


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

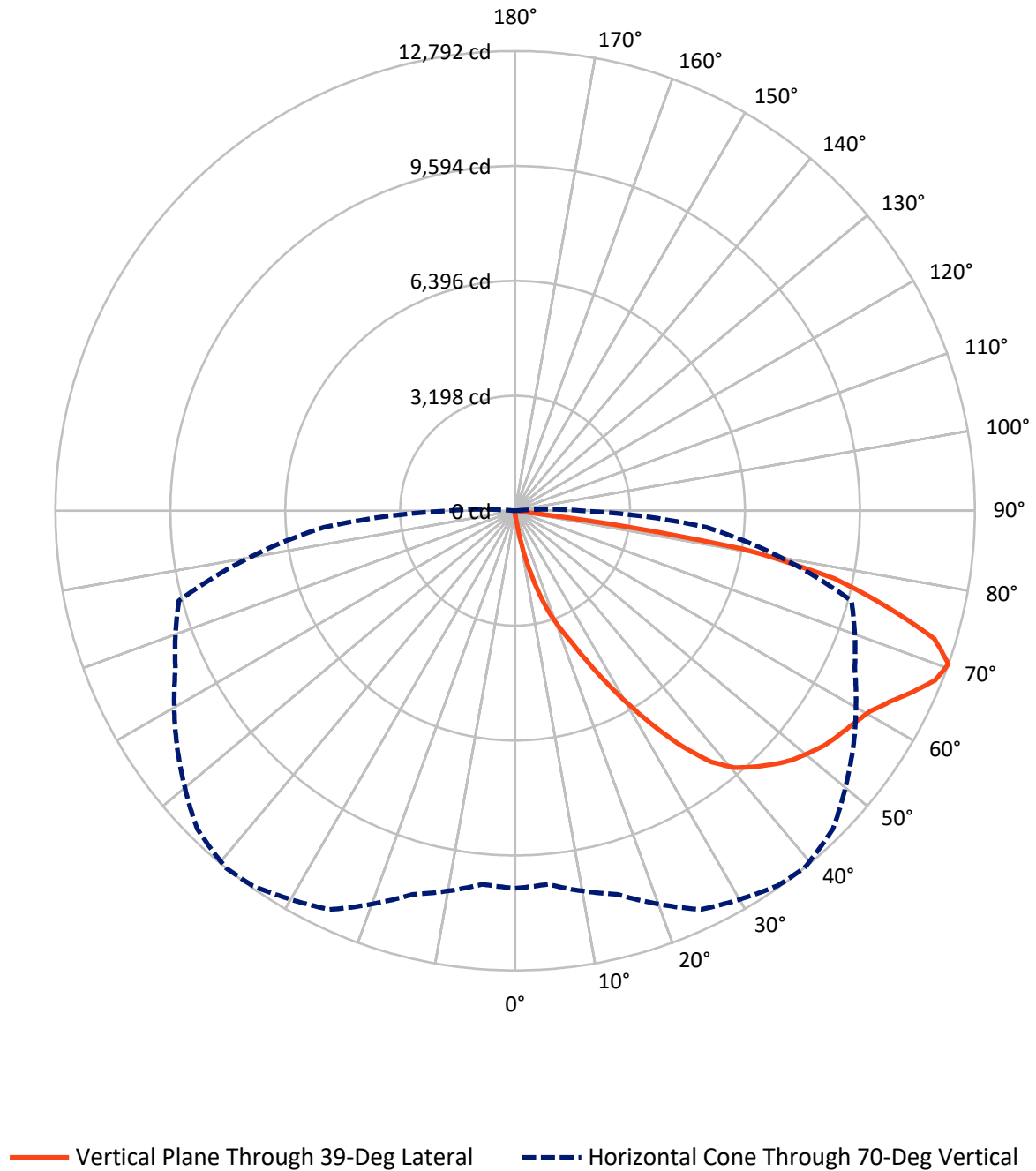


Based on 15 foot mounting height. Maximum calculated value = 22 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	62.2	0.0	62.2
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	20133.3	0.0	20133.3
	% Fixture	99.7	0.0	99.7
Total	Lumens	20195.5	0.0	20195.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.2	0.1
10°-20°	248.3	1.2
20°-30°	842.5	4.2
30°-40°	1980.1	9.8
40°-50°	3215.3	15.9
50°-60°	4074.4	20.2
60°-70°	5175.6	25.6
70°-80°	4205.1	20.8
80°-90°	433.0	2.1
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°	20195.5	100.0
0°-180°	20195.5	100.0



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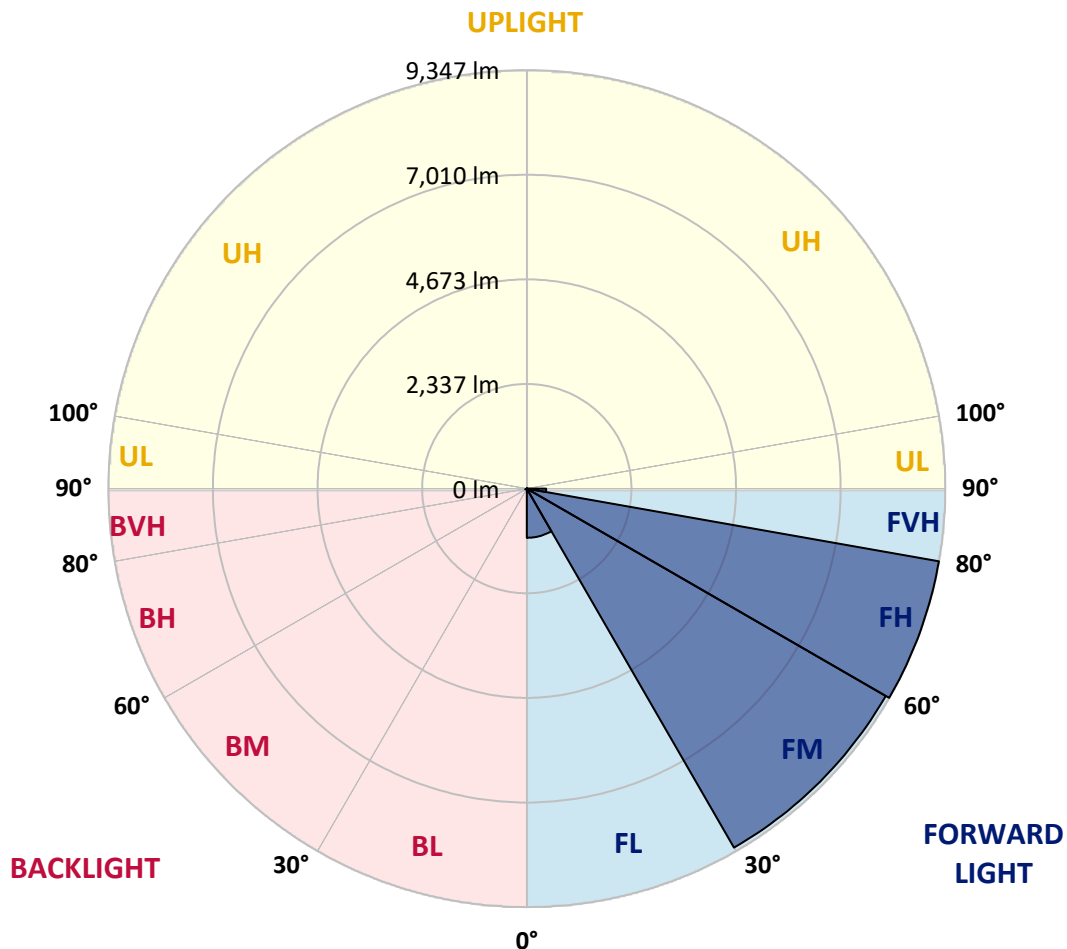
CATALOG NUMBER: NAV-SA5B-730-U-T4BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1098.6	5.4			
FM	(30°-60°)	9257.8	45.8			
FH	(60°-80°)	9346.5	46.3			G4/12000
FVH	(80°-90°)	430.4	2.1			G3/500
BL	(0°-30°)	13.5	0.1	B0/110		
BM	(30°-60°)	12.0	0.1	B0/220		
BH	(60°-80°)	34.2	0.2	B0/110		G0/110
BVH	(80°-90°)	2.6	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7
2.5°	142.6	142.6	142.6	137.1	137.1	131.6	131.6	126.1	120.6	120.6	115.1
5°	268.7	274.2	257.7	224.8	202.9	191.9	180.9	153.5	137.1	126.1	115.1
7.5°	734.7	712.8	679.9	570.2	438.6	372.8	318.0	224.8	164.5	131.6	115.1
10°	1546.2	1485.9	1392.7	1244.6	986.9	882.8	685.4	411.2	230.3	148.0	115.1
12.5°	2270.0	2280.9	2165.8	2023.2	1710.7	1535.2	1266.6	773.1	361.9	175.5	115.1
15°	2818.3	2807.3	2763.4	2648.3	2368.7	2198.7	1957.4	1299.5	608.6	219.3	120.6
17.5°	3251.4	3207.6	3191.1	3141.8	2960.8	2867.6	2604.4	1913.6	965.0	296.1	126.1
20°	3684.6	3673.6	3657.2	3602.3	3481.7	3415.9	3213.0	2533.2	1436.5	422.2	137.1
22.5°	4315.1	4254.8	4265.8	4145.2	4046.5	3931.3	3766.8	3191.1	1979.4	603.1	153.5
25°	5055.3	5049.9	4962.1	4907.3	4742.8	4616.7	4397.4	3827.1	2582.5	871.8	170.0
27.5°	5927.1	5866.8	5828.4	5735.2	5565.3	5422.7	5121.1	4457.7	3235.0	1173.4	191.9
30°	6837.3	6837.3	6766.0	6623.5	6459.0	6283.5	5976.5	5121.1	3882.0	1557.2	219.3
32.5°	7901.0	7923.0	7747.5	7533.7	7319.8	7199.2	6798.9	5872.3	4501.6	1995.8	252.2
35°	8931.8	8904.4	8613.8	8378.0	8219.0	8087.4	7747.5	6694.8	5203.4	2505.7	296.1
37.5°	9918.8	9847.5	9365.0	9030.5	8959.2	8871.5	8531.6	7517.2	5899.7	3070.5	350.9
40°	10626.1	10516.4	10017.5	9556.9	9452.7	9403.4	9140.2	8262.9	6634.4	3701.0	422.2
42.5°	10933.1	10807.0	10461.6	10088.7	9858.5	9743.3	9513.0	8871.5	7369.2	4402.9	526.4
45°	10993.4	10894.7	10648.0	10560.3	10247.7	10072.3	9759.8	9304.7	8054.5	5099.2	668.9
47.5°	10774.1	10730.3	10582.2	10768.6	10609.6	10368.4	9990.0	9628.2	8663.2	5943.6	866.3
50°	10236.8	10203.9	10275.2	10763.2	10872.8	10598.7	10242.3	9880.4	9189.5	6815.4	1145.9
52.5°	9513.0	9507.5	9842.0	10620.6	10988.0	10818.0	10489.0	10132.6	9606.2	7659.8	1540.7
55°	8723.5	8816.7	9403.4	10489.0	11053.8	10977.0	10730.3	10357.4	9979.1	8443.8	2176.8
57.5°	8657.7	8619.3	9184.0	10434.2	11092.1	11136.0	10971.5	10593.2	10297.1	9085.3	3026.6
60°	9315.6	9227.9	9441.7	10549.3	11262.1	11338.9	11212.8	10774.1	10615.1	9589.8	4145.2
62.5°	10077.8	9995.5	10105.2	10993.4	11596.6	11706.2	11547.2	10960.5	10872.8	9940.7	5345.9
65°	10686.4	10620.6	10828.9	11656.9	12062.6	12155.8	12046.2	11306.0	10988.0	10225.8	6321.9
67.5°	10785.1	10702.8	11136.0	12101.0	12534.2	12600.0	12512.2	11640.4	10949.6	10247.7	6546.7
70°	10505.4	10434.2	11053.8	12243.6	12737.0	12791.9	12512.2	11481.4	10428.7	9688.5	5351.4
72.5°	9644.6	9699.4	10500.0	11898.1	12457.4	12205.2	11613.0	10680.9	9754.3	8213.6	3755.9
75°	8306.8	8367.1	9430.8	10949.6	10993.4	10686.4	10368.4	9825.6	8729.0	5411.7	2604.4
77.5°	5905.2	5691.4	7281.4	9041.5	8882.5	9079.9	9107.3	8175.2	7308.9	2818.3	1743.6
80°	581.2	493.5	915.7	2593.5	5729.7	6404.2	6667.3	6300.0	5389.8	1261.1	915.7
82.5°	126.1	126.1	137.1	148.0	230.3	345.4	1584.6	3882.0	3481.7	641.5	296.1
85°	71.3	71.3	87.7	104.2	137.1	153.5	180.9	241.3	937.6	230.3	54.8
87.5°	54.8	60.3	71.3	87.7	115.1	126.1	153.5	191.9	235.8	213.8	16.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7
2.5°	115.1	109.7	104.2	98.7	93.2	93.2	87.7	87.7	87.7	87.7	87.7
5°	109.7	104.2	98.7	87.7	82.2	76.8	71.3	71.3	71.3	71.3	71.3
7.5°	109.7	104.2	93.2	82.2	71.3	65.8	60.3	54.8	54.8	60.3	60.3
10°	109.7	98.7	82.2	71.3	60.3	54.8	49.3	43.9	43.9	43.9	43.9
12.5°	104.2	93.2	76.8	65.8	54.8	43.9	32.9	27.4	27.4	27.4	27.4
15°	98.7	87.7	71.3	54.8	38.4	27.4	21.9	16.4	16.4	16.4	16.4
17.5°	98.7	82.2	65.8	49.3	27.4	16.4	11.0	5.5	5.5	5.5	11.0
20°	98.7	82.2	60.3	38.4	16.4	11.0	11.0	5.5	0.0	5.5	5.5
22.5°	98.7	76.8	49.3	27.4	16.4	11.0	5.5	0.0	0.0	0.0	0.0
25°	104.2	76.8	43.9	21.9	11.0	5.5	0.0	0.0	0.0	0.0	0.0
27.5°	104.2	71.3	38.4	16.4	5.5	0.0	0.0	0.0	0.0	0.0	0.0
30°	109.7	71.3	32.9	11.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	109.7	65.8	21.9	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	109.7	60.3	16.4	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	109.7	54.8	16.4	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	115.1	49.3	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	120.6	43.9	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	126.1	38.4	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	142.6	38.4	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	164.5	38.4	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	197.4	38.4	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	257.7	32.9	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	372.8	32.9	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	625.1	32.9	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1096.6	32.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1853.3	32.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2418.0	38.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1836.8	32.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	877.3	21.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	389.3	21.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	170.0	16.4	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	65.8	11.0	5.5	5.5	5.5	5.5	0.0	0.0	0.0	0.0	0.0
82.5°	27.4	11.0	5.5	5.5	5.5	5.5	5.5	0.0	0.0	0.0	0.0
85°	16.4	11.0	11.0	11.0	5.5	5.5	5.5	0.0	0.0	0.0	0.0
87.5°	11.0	11.0	11.0	11.0	11.0	5.5	5.5	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: SP1-2407-184-4

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

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

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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	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			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.19

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			

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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			

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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)