

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: P324638

Luminaire Tested: **GLEON-SA4B-830-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4B-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13580 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

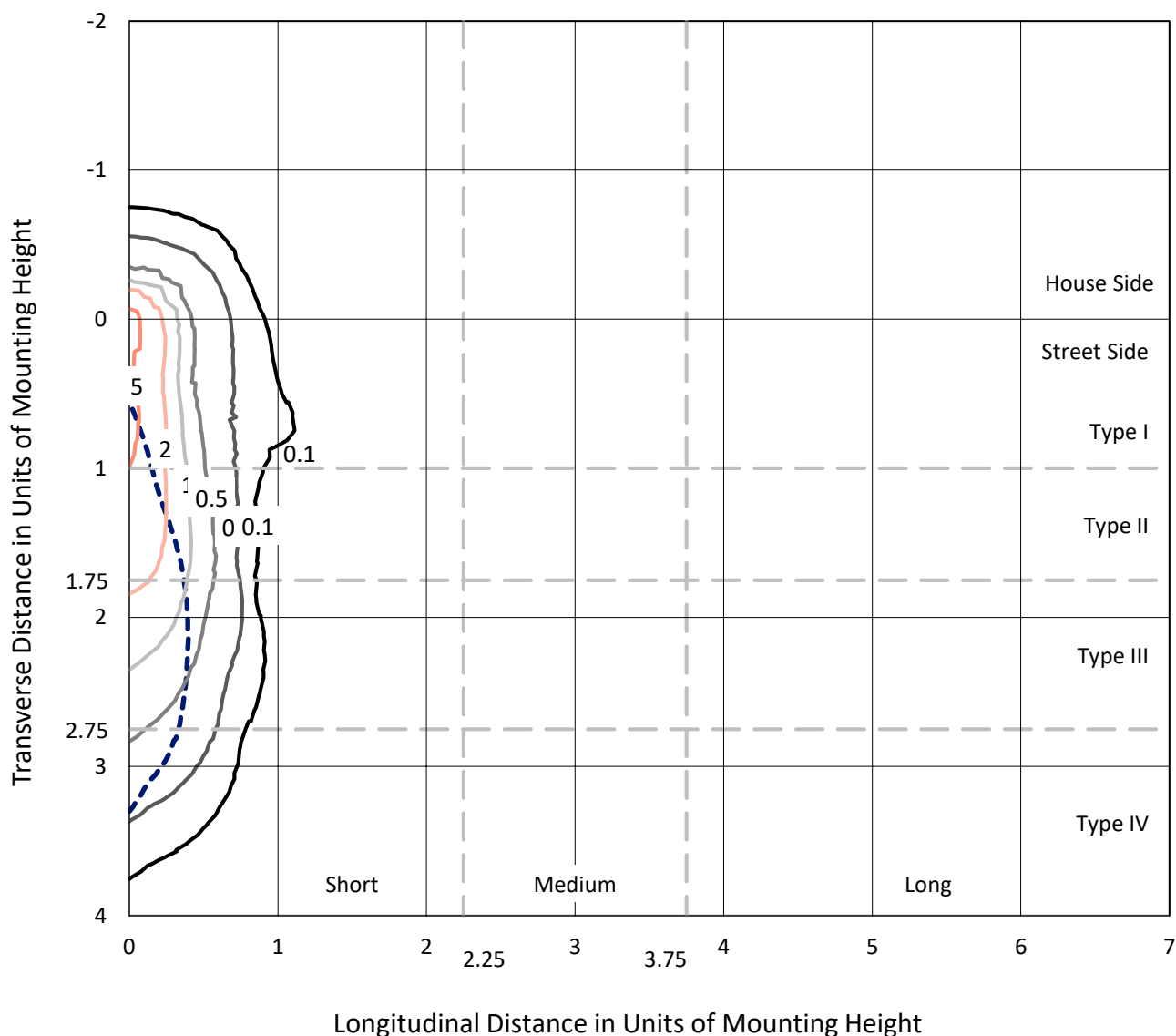
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

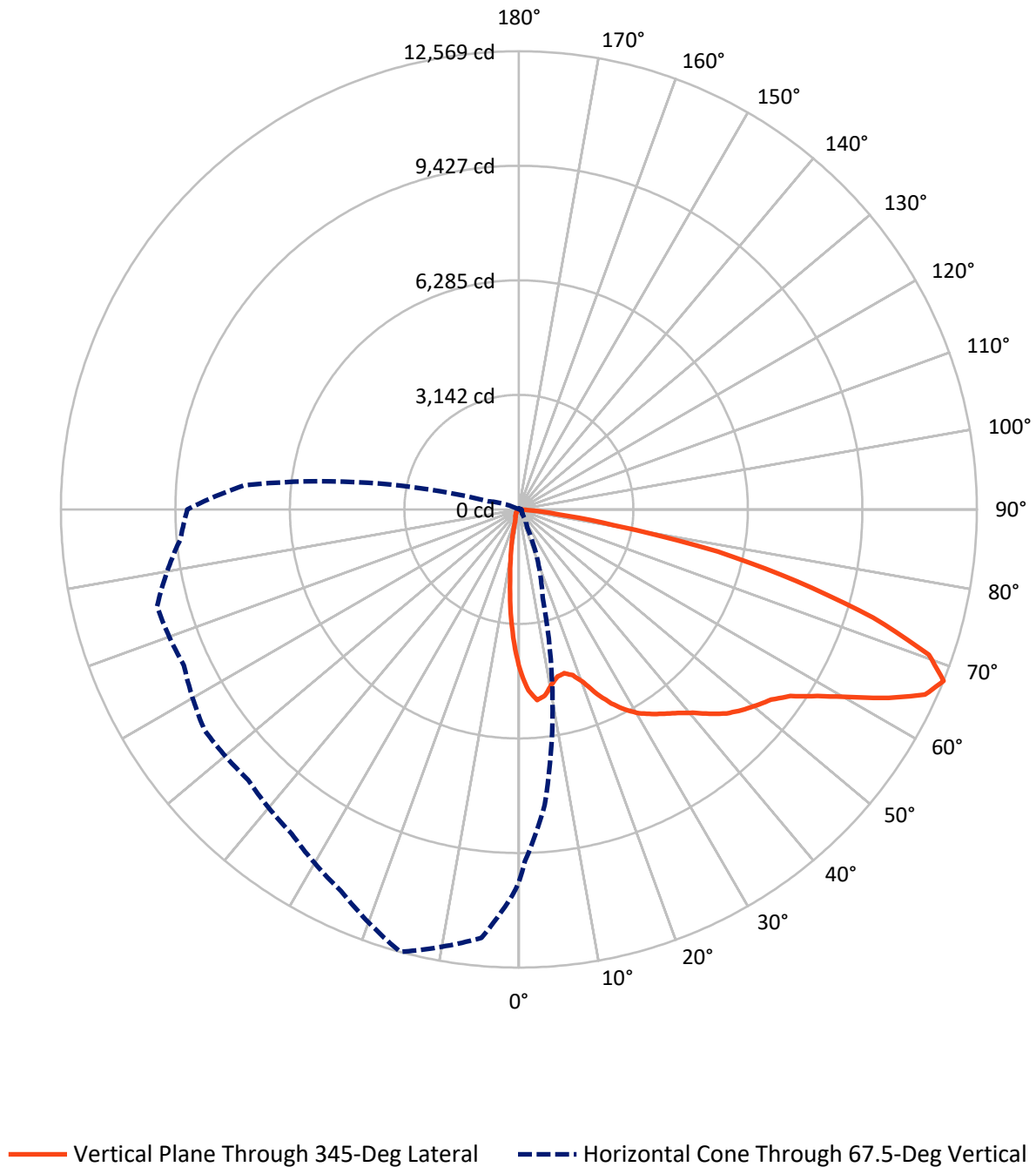
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1643.6	0.0	1643.6
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	11936.4	0.0	11936.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	13580.0	0.0	13580.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.5	2.5
10°-20°	675.8	5.0
20°-30°	959.6	7.1
30°-40°	1417.4	10.4
40°-50°	2044.2	15.1
50°-60°	2869.7	21.1
60°-70°	3345.2	24.6
70°-80°	1710.1	12.6
80°-90°	218.4	1.6
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°	13580.0	100.0
0°-180°	13580.0	100.0

Coefficient of Utilization



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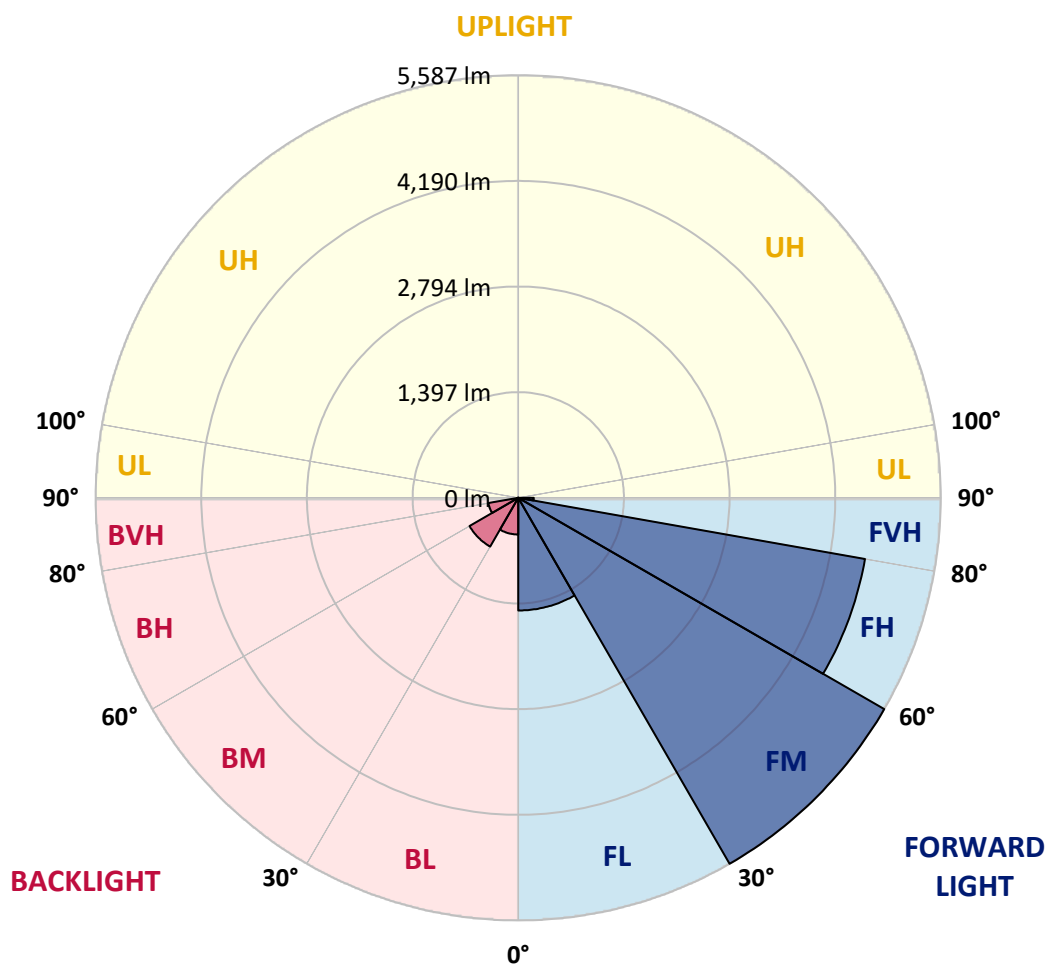
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1489.5	11.0			
FM	(30°-60°)	5587.0	41.1			
FH	(60°-80°)	4654.7	34.3			G2/5000
FVH	(80°-90°)	205.1	1.5			G2/225
BL	(0°-30°)	485.5	3.6	B1/500		
BM	(30°-60°)	744.3	5.5	B1/1000		
BH	(60°-80°)	400.6	2.9	B1/500		G1/500
BVH	(80°-90°)	13.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4423.7	4423.7	4423.7	4423.7	4423.7	4423.7	4423.7	4423.7	4423.7	4423.7	4423.7
2.5°	4843.8	4806.5	4765.3	4630.8	4506.0	4363.2	4246.7	4165.7	4064.0	3932.1	3898.7
5°	4809.0	4769.1	4639.8	4340.7	4078.8	3824.1	3578.3	3434.2	3255.3	3073.9	3028.9
7.5°	4459.7	4417.9	4231.3	3821.5	3468.9	3100.9	2781.8	2584.3	2382.3	2216.3	2128.2
10°	4096.2	4050.5	3840.8	3343.5	2909.2	2576.6	2342.4	2153.9	1962.9	1785.3	1643.8
12.5°	3845.9	3786.1	3558.4	2994.8	2616.5	2390.7	2171.9	1946.1	1687.5	1497.1	1341.4
15°	3741.1	3672.9	3432.3	2860.3	2512.9	2247.9	1962.9	1685.6	1382.6	1164.5	1021.6
17.5°	3822.1	3733.3	3475.4	2851.3	2383.0	2022.0	1661.8	1336.2	1007.5	786.8	685.2
20°	4097.5	3981.0	3653.6	2848.7	2225.3	1753.8	1297.0	929.0	663.9	534.0	480.6
22.5°	4531.1	4377.3	3909.6	2869.3	2062.6	1472.0	936.7	631.1	498.6	431.0	399.5
25°	5054.8	4876.6	4278.3	2942.0	1919.7	1197.9	680.7	498.6	420.7	371.2	344.8
27.5°	5552.7	5408.0	4744.0	3046.9	1809.1	976.6	552.6	422.7	359.6	326.8	305.6
30°	6050.0	5868.0	5222.1	3171.7	1675.9	826.7	485.7	385.4	322.3	287.6	274.1
32.5°	6411.6	6260.4	5596.5	3261.8	1533.7	728.9	434.3	352.6	301.1	265.7	245.8
35°	6836.9	6665.7	5917.5	3281.7	1442.4	667.2	390.5	317.2	261.2	229.7	208.4
37.5°	7296.2	7083.3	6288.1	3238.0	1371.0	636.9	357.7	301.1	243.8	211.7	189.1
40°	7804.5	7563.8	6643.9	3174.9	1300.8	626.6	332.6	288.9	230.3	197.5	174.3
42.5°	8339.7	8056.0	6952.0	3108.7	1256.5	591.2	330.0	276.6	220.0	184.6	161.5
45°	8789.4	8501.8	7268.5	3086.8	1224.9	552.6	341.0	268.3	212.9	174.3	151.8
47.5°	9147.8	8875.6	7592.8	3135.7	1206.9	517.3	310.7	279.2	209.1	165.3	143.5
50°	9575.6	9267.4	8049.6	3281.7	1180.5	481.9	281.1	319.7	209.1	159.6	136.4
52.5°	10112.1	9807.2	8559.1	3508.2	1127.8	433.0	252.8	320.4	211.0	151.8	127.4
55°	10787.0	10565.7	9286.7	3756.5	1043.5	360.9	218.7	275.4	203.3	137.7	119.0
57.5°	11434.2	11253.4	9950.0	3926.4	930.9	281.8	190.4	222.0	185.9	120.9	106.2
59°	11611.1	11413.6	10193.2	3934.1	846.6	245.8	176.3	183.4	182.1	113.2	98.4
60°	11611.1	11401.4	10263.3	3892.9	785.5	225.8	167.3	163.4	189.8	108.1	93.9
62.5°	11400.8	11106.1	10035.6	3614.3	640.8	192.4	146.0	135.1	170.5	97.1	83.0
65°	10963.3	10534.2	9259.7	3110.6	571.3	176.3	126.1	110.7	118.4	85.6	72.7
67.5°	10233.7	9652.1	8140.9	2512.9	543.6	171.8	108.7	93.9	89.4	73.3	63.7
70°	8949.0	8303.7	6782.8	1975.7	519.8	169.8	91.4	79.1	72.1	61.8	54.0
72.5°	6513.3	5840.3	4815.5	1544.7	505.7	173.7	73.3	66.3	59.2	48.3	41.8
75°	3725.6	3284.9	2706.6	1020.3	431.0	166.0	56.6	55.3	42.5	34.7	29.0
77.5°	1924.9	1866.4	1621.9	391.8	206.5	72.7	37.3	32.2	25.1	21.2	17.4
80°	830.6	821.6	710.9	113.2	54.7	40.5	21.2	13.5	11.6	9.0	7.1
82.5°	286.9	286.9	252.8	38.0	24.4	19.9	2.6	0.0	0.0	0.0	0.0
85°	57.9	65.0	45.7	0.0	8.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4423.7	4423.7	4423.7	4423.7	4423.7	4423.7	4423.7	4423.7	4423.7	4423.7	4423.7
2.5°	3858.2	3780.3	3775.2	3726.3	3665.2	3637.5	3621.4	3649.7	3684.5	3688.3	3740.4
5°	2994.8	2913.1	2947.2	2860.3	2877.7	2860.3	2832.0	2837.2	2852.6	2804.4	2864.2
7.5°	2103.1	2041.3	2080.6	2057.4	2088.3	2100.5	2083.2	2057.4	1981.5	1972.5	2024.6
10°	1585.2	1515.1	1473.3	1429.5	1439.2	1459.1	1452.7	1434.0	1385.8	1388.3	1438.5
12.5°	1273.8	1195.3	1112.3	1004.9	978.5	993.3	978.5	967.6	921.3	925.1	969.5
15°	966.3	902.0	815.1	728.9	681.9	686.5	645.3	616.3	587.4	552.6	579.7
17.5°	652.4	613.1	587.4	561.6	505.7	492.8	440.7	384.7	362.8	346.8	358.3
20°	461.9	440.7	430.4	429.1	396.9	380.9	330.0	295.3	284.4	281.1	288.2
22.5°	386.0	370.6	355.8	347.4	331.3	312.7	274.1	256.7	249.0	245.1	250.3
25°	335.8	324.2	308.8	294.7	288.2	268.3	240.6	227.7	222.6	218.7	221.3
27.5°	298.5	288.2	270.2	261.2	256.1	238.7	214.9	204.6	200.1	198.8	198.2
30°	268.9	259.3	242.5	232.2	223.2	207.8	193.6	183.4	178.9	177.6	176.3
32.5°	239.3	231.6	220.7	210.4	200.7	186.6	174.3	166.0	158.9	157.6	157.0
35°	202.0	194.3	188.5	187.9	178.9	165.3	156.3	145.4	139.6	137.7	138.3
37.5°	179.5	169.2	156.3	160.8	158.3	148.6	136.4	125.5	119.7	118.4	118.4
40°	165.3	154.4	139.6	131.9	139.6	137.7	118.4	107.4	101.6	101.0	99.7
42.5°	151.8	140.9	124.2	111.3	115.2	120.9	102.3	92.0	86.2	84.9	83.0
45°	142.2	130.6	111.9	97.1	89.4	101.6	87.5	74.6	71.4	68.8	67.6
47.5°	133.2	122.2	101.0	84.3	71.4	73.3	70.1	61.1	57.3	54.7	54.0
50°	125.5	113.9	91.4	72.1	59.2	54.0	56.6	48.3	45.0	42.5	41.2
52.5°	116.4	105.5	81.1	62.4	49.5	42.5	43.1	38.0	34.7	32.8	32.2
55°	109.4	98.4	72.7	54.7	43.7	34.7	30.9	29.6	27.7	26.4	25.7
57.5°	99.7	89.4	64.3	46.3	37.3	28.3	23.8	23.8	23.2	21.9	21.2
59°	93.9	84.9	59.2	41.8	34.1	24.4	21.2	21.9	21.2	19.9	19.3
60°	89.4	81.1	55.3	38.6	32.2	22.5	19.3	20.6	19.9	18.7	18.0
62.5°	79.1	73.3	47.6	32.2	28.3	18.0	16.1	17.4	17.4	16.7	16.1
65°	69.5	63.0	40.5	27.0	26.4	15.4	12.9	15.4	16.1	14.8	13.5
67.5°	60.5	54.0	35.4	21.9	24.4	12.2	9.7	12.9	17.4	13.5	12.2
70°	51.5	45.0	27.7	17.4	25.7	8.4	7.7	11.6	20.6	14.8	11.6
72.5°	39.9	34.7	19.3	12.9	27.7	5.8	5.8	9.7	23.2	16.1	10.9
75°	27.7	22.5	11.6	7.7	22.5	3.9	3.9	9.0	21.9	14.8	10.3
77.5°	16.1	12.2	3.9	0.6	11.6	0.0	0.6	6.4	15.4	9.0	4.5
80°	5.8	2.6	0.0	0.0	7.1	0.0	0.0	0.0	1.3	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4423.7	4423.7	4423.7	4423.7	4423.7	4423.7	4423.7	4423.7	4423.7	4423.7	4423.7
2.5°	3753.9	3840.8	3918.6	4036.4	4176.0	4336.8	4475.1	4623.7	4763.3	4821.2	4861.1
5°	2876.4	2983.8	3109.3	3282.4	3512.7	3796.4	4062.1	4362.5	4685.5	4847.0	4998.8
7.5°	2033.6	2143.0	2298.7	2482.7	2761.2	3099.0	3446.4	3861.4	4298.9	4554.3	4805.8
10°	1462.3	1596.8	1742.2	1993.7	2276.8	2597.2	2954.9	3418.1	3905.8	4188.8	4491.9
12.5°	995.3	1148.4	1368.4	1650.2	1982.8	2296.8	2607.5	3049.5	3615.6	3896.1	4221.0
15°	597.0	681.9	914.8	1241.0	1648.9	2040.1	2380.4	2823.7	3427.1	3770.7	4108.4
17.5°	368.0	407.2	534.0	801.6	1230.1	1724.8	2191.2	2747.1	3454.1	3872.3	4233.9
20°	293.4	308.8	349.3	473.5	815.1	1377.4	1978.3	2731.7	3674.8	4189.5	4577.4
22.5°	254.8	269.6	296.6	344.2	512.7	1031.3	1776.3	2745.8	3991.3	4664.9	5117.8
25°	224.5	237.4	263.1	302.4	375.7	726.3	1560.1	2808.9	4403.7	5254.9	5736.1
27.5°	200.7	211.7	235.5	271.5	322.3	507.0	1315.0	2885.4	4892.7	5858.3	6333.1
30°	178.9	188.5	209.7	243.2	279.9	389.9	1046.1	2937.5	5382.2	6333.1	6759.7
32.5°	160.2	167.3	186.6	214.9	243.2	310.7	795.2	2929.2	5745.7	6728.1	7066.5
35°	140.9	148.0	164.7	189.1	211.7	256.7	625.3	2772.8	6062.3	7137.9	7417.8
37.5°	119.7	128.7	144.8	166.6	182.1	225.8	505.7	2584.3	6383.3	7606.3	7809.6
40°	101.6	110.7	124.8	148.6	158.3	214.2	388.6	2354.7	6744.2	8130.0	8239.4
42.5°	84.3	92.6	107.4	128.0	149.3	184.6	287.6	2092.2	7091.0	8577.8	8631.2
45°	68.2	76.6	92.0	112.6	159.6	153.1	222.6	1811.0	7370.8	8950.3	8967.6
47.5°	54.0	61.8	77.8	106.2	148.6	122.2	158.9	1590.4	7605.7	9241.0	9195.4
50°	41.8	48.3	65.0	121.6	130.0	101.0	120.3	1517.0	7816.0	9421.2	9302.8
52.5°	32.8	38.6	53.4	113.9	101.0	83.6	101.0	1585.9	8104.3	9570.4	9363.3
55°	26.4	32.2	41.8	65.0	68.8	70.8	86.2	1650.2	8601.6	9920.4	9720.3
57.5°	21.9	27.7	34.1	45.7	52.1	59.8	76.6	1657.3	9187.7	10502.0	10312.9
59°	19.9	25.1	30.9	40.5	45.7	54.7	72.1	1618.7	9394.2	10713.7	10619.1
60°	18.7	23.8	29.0	37.3	42.5	51.5	69.5	1582.0	9403.2	10706.0	10749.7
62.5°	16.1	21.2	25.7	31.5	36.0	43.7	62.4	1446.2	9022.3	10355.3	10671.2
65°	14.2	18.7	23.2	27.0	30.9	39.2	56.6	1198.6	8371.9	9789.8	10134.0
67.5°	12.9	16.1	21.2	23.8	27.7	34.7	50.2	854.4	7559.3	9098.2	9321.5
70°	11.6	15.4	19.3	21.9	25.1	30.2	43.1	490.9	6383.3	8085.6	8244.5
72.5°	10.9	14.8	17.4	20.6	22.5	27.0	39.2	231.0	4673.9	6477.2	6892.2
75°	9.7	13.5	16.1	19.3	21.2	24.4	33.5	110.7	3108.7	4687.4	5159.0
77.5°	5.8	10.9	14.8	17.4	18.7	21.2	27.7	63.7	1984.1	3244.4	3821.5
80°	0.0	3.9	10.9	14.8	16.1	18.0	21.2	50.2	1061.5	1853.5	2224.7
82.5°	0.0	0.0	7.7	11.6	10.9	12.2	16.1	31.5	478.7	1211.4	1365.2
85°	0.0	0.0	2.6	9.0	7.7	5.8	10.9	10.9	104.9	613.1	764.9
87.5°	0.0	0.0	0.0	0.6	3.9	2.6	4.5	1.3	0.6	45.7	185.3
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: GLEON-SA4B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4423.7	4423.7	4423.7	4423.7	4423.7	4423.7	4423.7	4423.7	4423.7	4423.7
2.5°	5000.7	5048.4	5128.8	5166.7	5148.1	5068.9	4974.4	4877.9	4821.2	4843.8
5°	5308.3	5553.4	5694.9	5741.9	5663.4	5485.8	5253.6	4947.3	4838.6	4809.0
7.5°	5308.3	5769.5	6061.6	6113.1	5938.1	5590.0	5154.5	4676.5	4517.6	4459.7
10°	5121.7	5749.6	6156.8	6238.5	5994.1	5473.6	4890.1	4344.5	4156.0	4096.2
12.5°	4911.3	5587.5	6016.6	6129.2	5928.5	5357.8	4706.7	4120.0	3898.0	3845.9
15°	4782.0	5388.0	5743.2	5824.9	5739.9	5290.2	4663.0	4052.4	3791.2	3741.1
17.5°	4828.3	5233.6	5361.7	5409.3	5466.5	5266.4	4782.0	4200.4	3869.7	3822.1
20°	5002.7	5070.9	5004.6	5064.4	5218.8	5289.6	5065.7	4558.1	4161.2	4097.5
22.5°	5298.6	4986.6	4800.7	4824.5	5012.3	5366.2	5499.3	5068.9	4610.9	4531.1
25°	5643.4	5054.8	4687.4	4666.2	4859.2	5467.2	5895.6	5624.8	5142.9	5054.8
27.5°	6077.1	5207.9	4664.3	4643.0	4805.8	5561.7	6225.0	6174.2	5703.3	5552.7
30°	6411.6	5358.4	4733.1	4684.2	4859.2	5627.4	6489.4	6640.6	6149.8	6050.0
32.5°	6651.6	5536.0	4845.1	4774.3	5009.7	5740.6	6693.4	7067.8	6562.8	6411.6
35°	6834.3	5729.0	5025.8	4909.4	5216.9	5912.4	6884.5	7522.7	7002.2	6836.9
37.5°	7005.4	5999.9	5308.3	5169.3	5541.8	6189.0	7086.5	8038.6	7493.7	7296.2
40°	7244.1	6306.7	5743.8	5620.3	6088.0	6566.0	7338.7	8576.5	8052.8	7804.5
42.5°	7482.8	6636.1	6189.6	6223.1	6769.3	7024.1	7664.2	9145.2	8604.8	8339.7
45°	7700.9	6975.8	6824.6	6979.0	7401.7	7526.5	7987.8	9473.9	9045.5	8789.4
47.5°	7895.2	7400.4	7455.8	7866.9	8121.0	7981.4	8229.7	9757.7	9373.6	9147.8
50°	8121.0	7949.8	8287.6	8869.2	8949.0	8393.1	8449.7	10093.5	9757.0	9575.6
52.5°	8368.0	8528.9	9208.9	9721.6	9695.9	8840.2	8671.0	10469.8	10282.6	10112.1
55°	8648.5	8996.6	10020.1	10519.4	10497.5	9339.5	9037.8	10935.0	10941.4	10787.0
57.5°	9064.8	9399.3	10570.8	11164.7	11201.3	9915.9	9659.2	11456.1	11537.2	11434.2
59°	9363.3	9660.5	10788.9	11434.2	11583.5	10361.8	10113.4	11758.5	11705.1	11611.1
60°	9584.6	9826.5	10897.0	11575.1	11805.4	10664.1	10448.6	11936.0	11725.0	11611.1
62.5°	10132.1	10188.1	11092.0	11734.7	12060.8	11335.8	11391.8	12238.4	11586.7	11400.8
65°	10387.5	10416.4	11089.4	11449.0	11813.8	11858.8	12247.4	12247.4	11248.9	10963.3
67.5°	10280.7	10141.1	10539.3	10502.0	10866.1	11548.1	12569.1	11798.4	10603.0	10233.7
70°	9412.2	8875.0	8698.1	8714.1	8992.7	10044.6	11932.2	10476.9	9380.7	8949.0
72.5°	7831.5	6542.8	6106.0	6604.6	6677.3	7719.5	10168.8	7890.0	6917.9	6513.3
75°	6299.0	4612.2	3901.9	4428.2	4551.7	5649.2	7866.2	4913.9	4040.9	3725.6
77.5°	4525.3	3310.7	2799.8	2763.2	2922.7	3582.8	5581.7	2473.0	2062.6	1924.9
80°	2570.8	2179.0	2346.3	2213.8	2294.2	2240.1	2651.9	1084.7	888.5	830.6
82.5°	1551.8	1288.0	1394.8	1161.2	1469.4	1279.6	1021.6	347.4	301.7	286.9
85°	1009.4	703.8	366.7	245.8	506.3	817.7	228.4	94.6	72.7	57.9
87.5°	348.1	179.5	18.0	7.7	54.0	152.5	8.4	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

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

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

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

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

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2408-195-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **GALN-SB1A-830-U-5WQ**
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K): 3050
 CIE u' : 0.2476
 CIE v' : 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 81.0
 R1: 79.6
 R2: 85.6
 R3: 92.0
 R4: 82.6
 R5: 78.9
 R6: 81.7
 R7: 85.2
 R8: 62.0
 R9: 7.1
 R10: 67.0
 R11: 82.7
 R12: 63.2
 R13: 80.3
 R14: 95.0
 R15: 71.7



Test Conditions

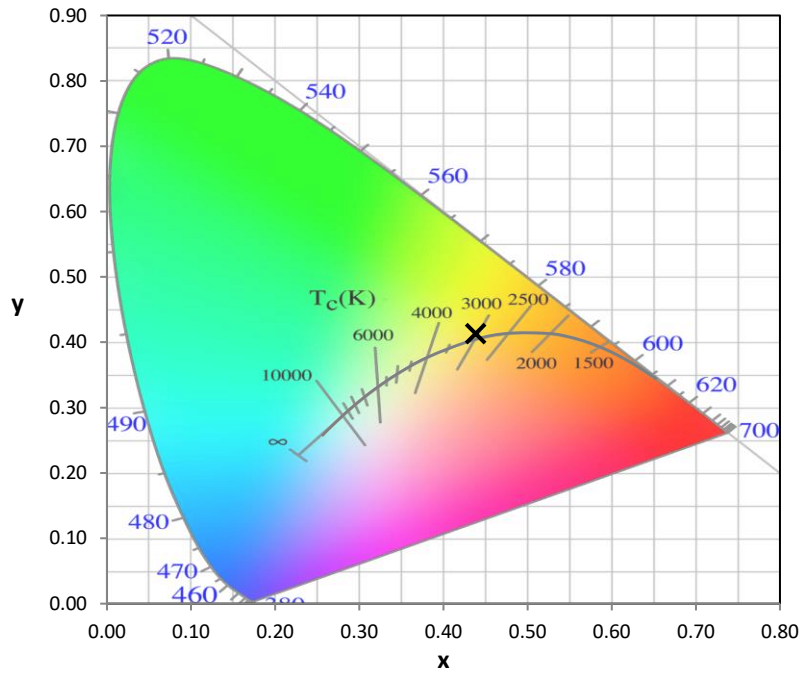
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.27

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_9 = 7.1$

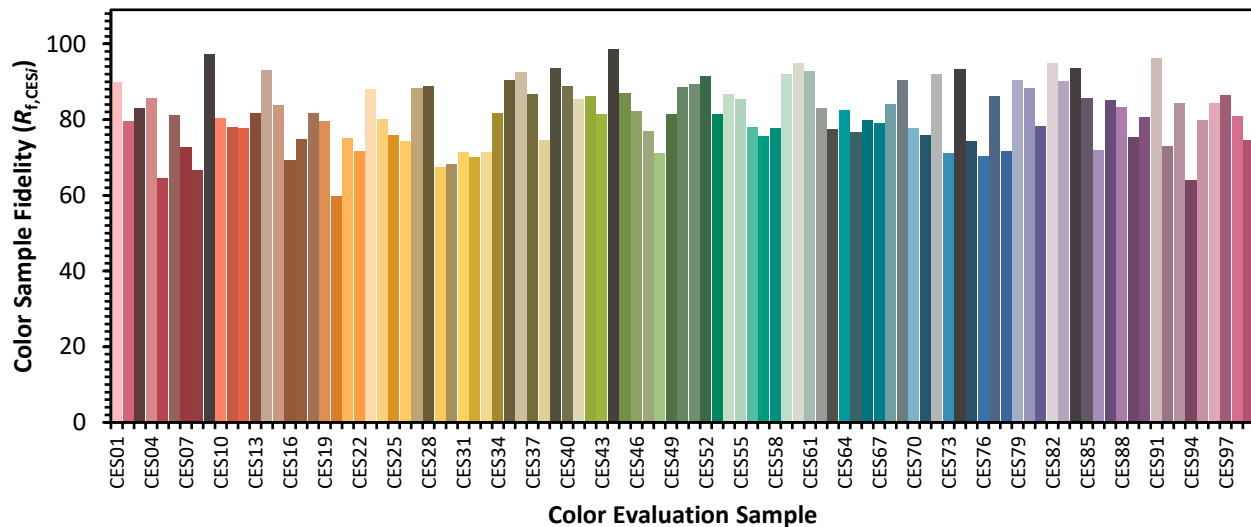


Color Vector Graphics



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

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	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 = 94
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 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	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	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)