

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: McGRAW-EDISON

Report Number: P324342

Luminaire Tested: **GLEON-SA8D-830-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324342
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8D-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36634 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

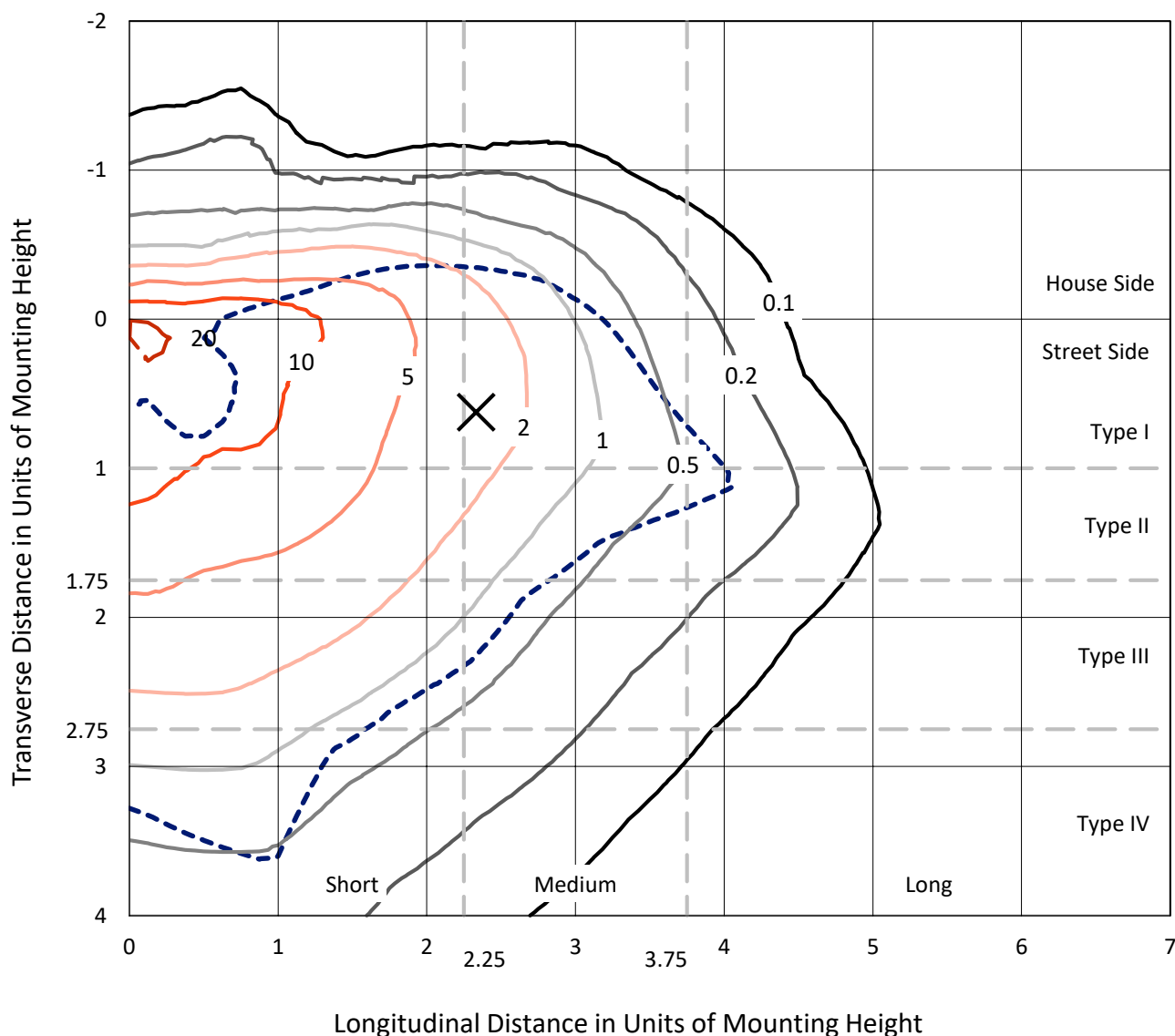
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

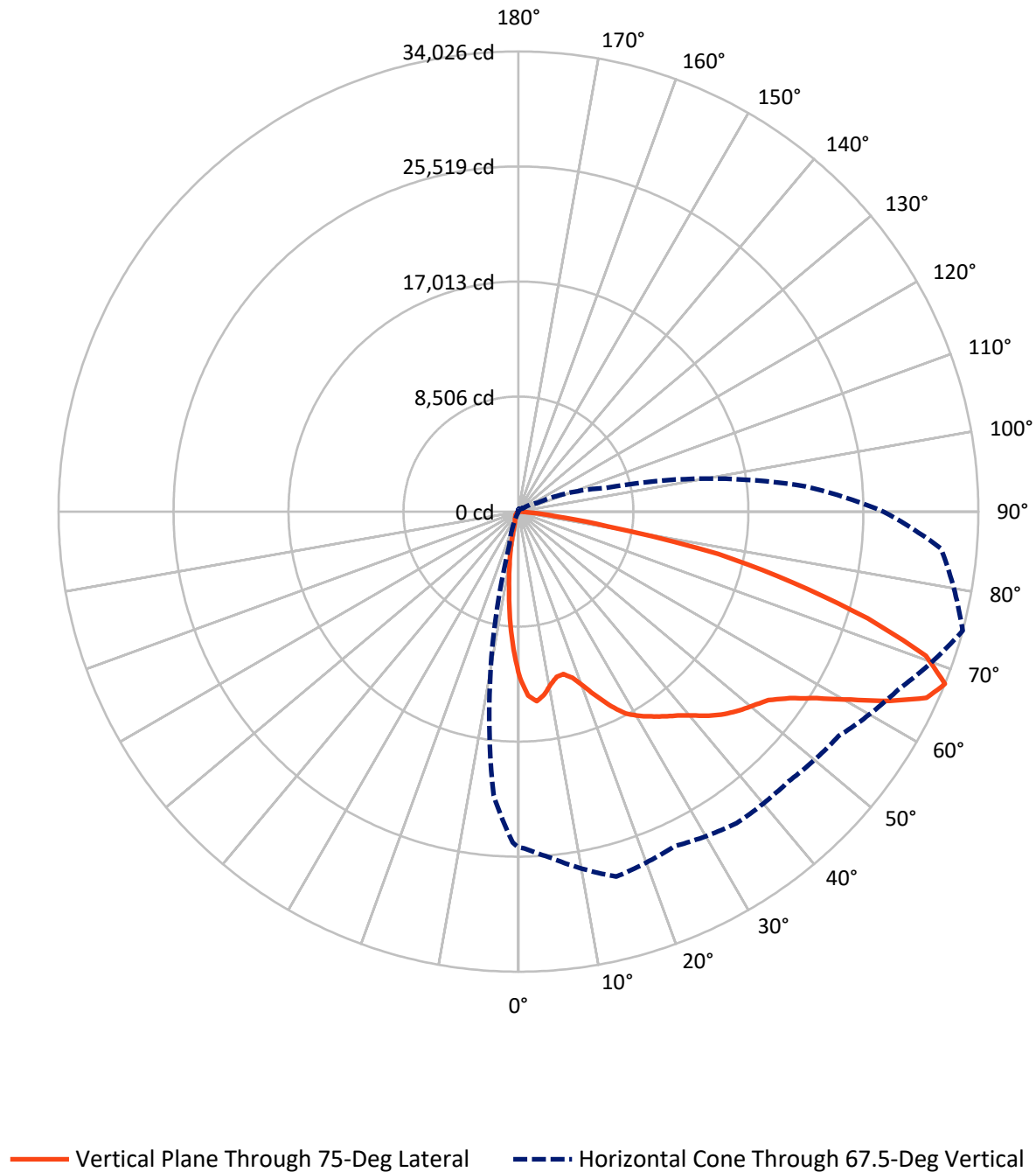
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5497.3	0.0	5497.3
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	31136.7	0.0	31136.7
	% Fixture	85.0	0.0	85.0
Total	Lumens	36634.0	0.0	36634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	932.3	2.5
10°-20°	1835.6	5.0
20°-30°	2596.9	7.1
30°-40°	3818.2	10.4
40°-50°	5488.0	15.0
50°-60°	7725.6	21.1
60°-70°	9022.8	24.6
70°-80°	4603.1	12.6
80°-90°	611.5	1.7
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°	36634.0	100.0
0°-180°	36634.0	100.0

Coefficient of Utilization



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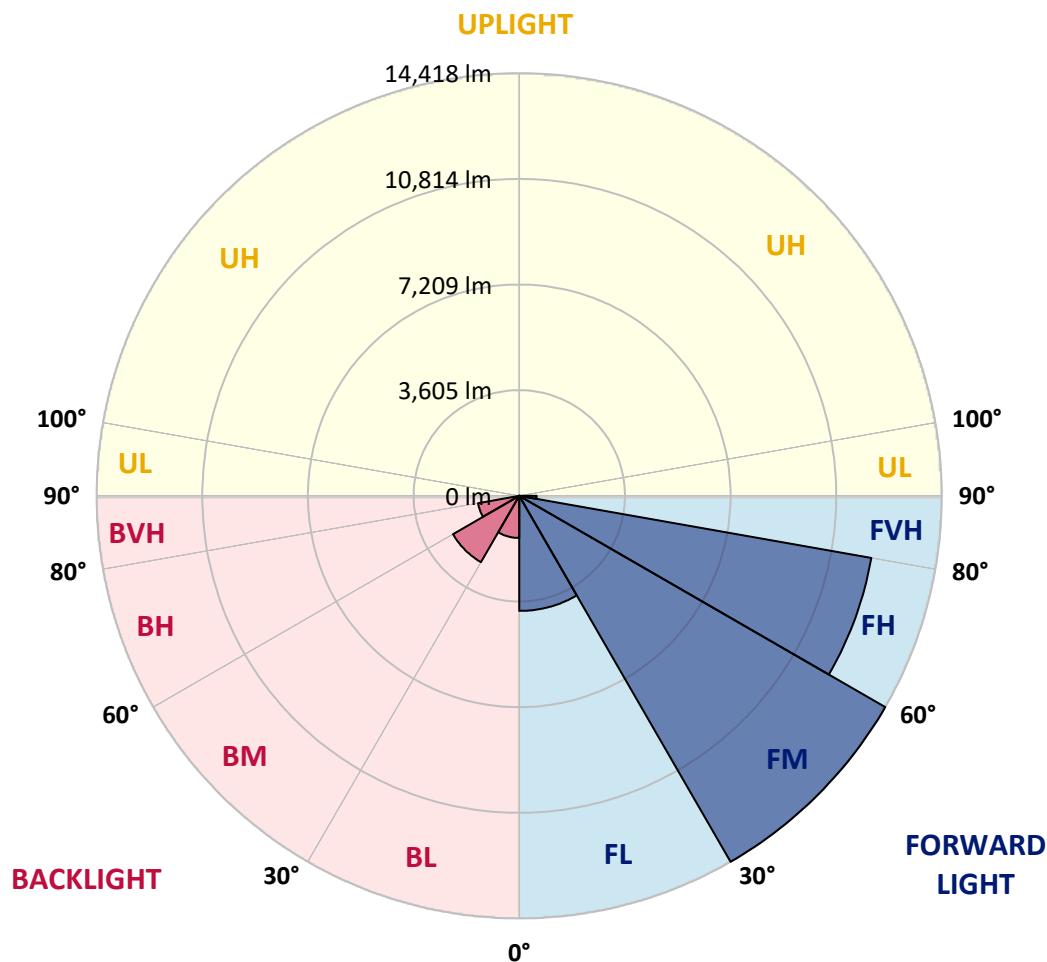
CATALOG NUMBER: GLEON-SA8D-830-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3927.2	10.7			
FM	(30°-60°)	14418.5	39.4			
FH	(60°-80°)	12198.1	33.3			G5
FVH	(80°-90°)	593.0	1.6			G4/750
BL	(0°-30°)	1437.6	3.9	B3/2500		
BM	(30°-60°)	2613.3	7.1	B3/5000		
BH	(60°-80°)	1427.9	3.9	B3/2500		G3/2500
BVH	(80°-90°)	18.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12290.1	12290.1	12290.1	12290.1	12290.1	12290.1	12290.1	12290.1	12290.1	12290.1	12290.1
2.5°	13322.6	13343.5	13451.1	13701.0	13973.4	13994.2	14178.2	13989.0	13924.8	13619.4	13303.6
5°	13423.3	13503.1	13872.8	14606.8	15243.7	15448.5	15594.3	15222.9	14832.4	14086.2	13289.7
7.5°	12612.9	12746.5	13327.8	14705.8	15844.2	16347.4	16442.9	15861.5	14905.3	13676.7	12479.2
10°	11575.1	11727.8	12428.9	14122.7	15686.3	16548.7	16680.6	15918.8	14544.4	13013.7	11602.9
12.5°	10735.2	10913.9	11630.6	13466.7	15143.1	16097.5	16357.9	15726.2	14232.0	12543.4	11004.2
15°	10348.2	10552.9	11306.1	13043.2	14540.9	15292.3	15507.5	15235.0	14058.4	12468.8	10865.3
17.5°	10570.3	10792.4	11569.9	13079.7	13975.2	14296.2	14469.7	14580.8	14058.4	12918.3	11271.4
20°	11481.4	11720.9	12543.4	13449.3	13506.6	13386.9	13572.5	13963.0	14221.6	13772.1	12246.7
22.5°	12741.3	13022.4	13950.9	14082.7	13277.5	12824.6	12848.9	13461.5	14518.3	14855.0	13600.3
25°	14277.1	14620.7	15564.8	15026.8	13373.0	12489.7	12481.0	13048.4	14808.1	15939.6	15108.4
27.5°	15802.5	16180.8	17010.4	16179.1	13766.9	12428.9	12411.6	12923.5	15091.0	16904.5	16755.3
30°	17081.5	17449.4	18164.4	17013.8	14192.1	12571.2	12487.9	13057.1	15259.3	17531.0	17956.2
32.5°	18122.7	18417.8	18995.7	17588.2	14646.7	12847.1	12666.7	13414.6	15545.7	18060.3	19059.9
35°	19268.1	19578.7	19809.6	18134.9	15157.0	13244.5	12986.0	13982.1	15986.5	18598.2	20269.4
37.5°	20574.9	20883.8	20856.0	18634.7	15804.3	13902.3	13737.4	14881.0	16672.0	19131.0	21619.6
40°	21853.9	22169.7	21944.1	19181.3	16564.4	14986.9	14865.4	16231.2	17590.0	19813.0	23202.3
42.5°	23051.3	23393.1	22910.7	19698.5	17470.2	16354.4	16562.6	17970.0	18738.8	20653.0	24566.3
45°	24016.2	24365.0	23721.1	20201.8	18424.7	18013.4	18639.9	19896.3	20120.2	21362.7	25487.8
47.5°	24717.3	25047.0	24283.4	20705.0	19646.4	20042.1	21133.7	21916.3	21367.9	21978.8	26142.0
50°	25165.0	25421.8	24448.3	21335.0	21249.9	22409.2	23731.6	24113.3	22542.8	22534.1	26936.8
52.5°	25449.6	25565.9	24569.7	21992.7	22922.9	24986.2	26275.6	26395.4	23752.4	23145.0	28007.6
55°	26430.1	26523.8	25430.5	22789.2	24306.0	27244.0	28576.8	28465.7	25121.6	24340.7	29270.9
57.5°	28103.0	28201.9	27209.3	23934.6	25425.3	28639.3	30244.5	30444.1	26726.8	26020.5	30624.5
60°	28942.9	29126.9	28772.9	25385.4	26509.9	29531.2	31381.2	32018.1	28733.0	28234.9	31936.5
62.5°	28181.1	28448.4	28962.0	26994.1	27587.6	30022.4	31735.2	32582.1	30787.7	30815.4	32745.2
65°	26660.9	26874.4	27745.5	27875.7	28212.3	29961.6	30860.6	31794.2	32045.8	33186.0	32701.8
67.5°	24824.9	24904.7	25644.0	27945.1	27306.5	28136.0	28233.2	28923.9	31051.5	34025.9	31388.1
70°	22181.8	22225.2	22870.8	25621.4	23466.0	23648.3	23504.2	23644.8	26695.6	31979.9	28071.8
72.5°	17852.0	17961.4	18879.4	21277.7	17095.4	16569.6	17701.0	17638.6	20559.2	27018.4	20849.1
75°	13143.9	13333.1	14719.6	17138.8	11998.5	10853.2	11679.2	11899.6	14615.5	20899.4	13038.0
77.5°	9202.8	9343.4	10686.6	12599.0	8683.9	7760.7	7462.2	7724.3	9647.1	15118.8	6568.5
80°	5301.6	5353.7	6211.0	7274.8	5851.8	6695.2	6065.2	6245.7	5780.6	6726.4	2825.2
82.5°	3469.1	3477.7	3812.7	4329.8	3644.3	4234.4	3134.1	4007.0	3555.8	2702.0	919.8
85°	1874.2	1884.6	2210.9	3073.4	2063.4	1166.2	685.5	1407.4	2198.7	619.5	251.6
87.5°	206.5	189.2	666.4	1117.6	572.7	105.9	36.4	157.9	352.3	39.9	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°	12290.1	12290.1	12290.1	12290.1	12290.1	12290.1	12290.1	12290.1	12290.1	12290.1	12290.1
2.5°	13142.2	12998.1	12638.9	12258.8	11953.4	11667.1	11379.0	11026.7	10754.3	10698.7	10608.5
5°	12861.0	12404.6	11651.5	10894.8	10285.7	9516.9	9029.3	8649.2	8277.8	8255.3	8180.7
7.5°	11878.8	11278.3	10218.0	9171.6	8314.3	7581.9	6842.7	6348.1	5959.4	5822.3	5740.7
10°	10934.7	10259.7	8935.6	7741.6	6976.3	6329.0	5808.4	5291.2	4822.7	4499.9	4354.1
12.5°	10275.3	9529.1	8069.6	7040.5	6492.1	5877.8	5242.6	4597.1	4057.4	3668.6	3430.9
15°	10020.2	9223.6	7779.8	6762.8	6086.0	5308.6	4496.4	3758.9	3160.2	2807.9	2594.4
17.5°	10323.9	9397.2	7757.2	6424.4	5478.6	4512.0	3614.8	2743.7	2179.7	1912.4	1775.3
20°	11094.4	9949.0	7748.5	6009.7	4756.7	3568.0	2448.6	1804.8	1462.9	1313.7	1249.5
22.5°	12184.2	10653.6	7818.0	5600.1	4005.3	2549.3	1690.3	1325.8	1150.6	1070.7	1034.3
25°	13586.4	11642.8	8014.1	5228.8	3299.0	1902.0	1317.2	1110.7	987.4	925.0	898.9
27.5°	15080.6	12781.2	8319.5	4906.0	2724.6	1516.7	1128.0	951.0	862.5	819.1	794.8
30°	16312.7	14100.1	8628.4	4546.7	2308.1	1322.4	1032.6	867.7	765.3	737.5	715.0
32.5°	17390.4	15098.0	8847.1	4222.2	2035.6	1174.9	933.6	775.7	706.3	652.5	628.2
35°	18506.3	15929.2	8840.1	3994.9	1848.2	1063.8	850.3	694.2	610.9	548.4	529.3
37.5°	19714.1	16868.1	8689.1	3800.5	1766.6	975.3	803.5	650.8	567.5	505.0	480.7
40°	21128.5	17853.8	8534.7	3618.3	1744.1	904.1	770.5	616.1	527.6	466.8	442.5
42.5°	22506.4	18742.3	8399.3	3482.9	1646.9	902.4	741.0	590.0	496.3	437.3	409.6
45°	23608.3	19570.1	8373.3	3401.4	1544.5	933.6	725.4	572.7	472.0	413.0	387.0
47.5°	24524.6	20469.0	8539.9	3344.1	1447.3	852.1	763.6	560.5	449.5	392.2	362.7
50°	25614.5	21572.7	8932.1	3250.4	1344.9	767.0	874.6	564.0	430.4	371.4	340.1
52.5°	27134.7	23099.9	9508.2	3092.5	1204.4	689.0	860.8	567.5	409.6	348.8	317.6
55°	28838.8	25007.1	10127.8	2830.4	1008.3	586.6	737.5	543.2	369.6	324.5	295.0
57.5°	30629.8	26737.3	10495.7	2518.1	801.8	506.7	590.0	494.6	326.3	291.5	272.5
60°	30910.9	27395.0	10327.3	2134.5	636.9	440.8	437.3	503.3	291.5	256.8	243.0
62.5°	30211.5	26568.9	9513.4	1792.7	532.8	387.0	359.2	439.1	263.8	229.1	215.2
65°	28866.6	24335.5	8194.5	1615.7	494.6	331.5	298.5	308.9	230.8	199.6	187.4
67.5°	26995.8	21354.1	6728.1	1515.0	489.4	284.6	255.1	234.3	199.6	173.5	163.1
70°	23171.0	17789.6	5367.6	1459.5	475.5	239.5	215.2	190.9	166.6	147.5	138.8
72.5°	17053.7	12605.9	4175.4	1398.7	479.0	190.9	187.4	157.9	133.6	114.5	111.1
75°	9853.6	7201.9	2738.5	1133.2	456.4	147.5	156.2	111.1	93.7	79.8	79.8
77.5°	5251.3	4392.3	1043.0	472.0	166.6	93.7	88.5	65.9	59.0	48.6	46.9
80°	2289.0	1933.2	314.1	131.9	92.0	50.3	33.0	29.5	26.0	20.8	19.1
82.5°	810.4	699.4	102.4	64.2	39.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	184.0	131.9	0.0	15.6	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°	12290.1	12290.1	12290.1	12290.1	12290.1	12290.1	12290.1	12290.1	12290.1	12290.1	12290.1
2.5°	10424.5	10386.4	10160.7	10169.4	10209.3	10266.6	10131.2	10193.7	10362.1	10523.4	10584.2
5°	8060.9	8069.6	7932.5	8017.5	8093.9	8146.0	7927.3	7930.8	8064.4	8246.6	8342.1
7.5°	5680.0	5666.1	5673.0	5876.1	6020.1	5916.0	5997.5	5714.7	5732.0	5862.2	5765.0
10°	4222.2	4031.3	3923.7	4076.4	4234.4	4177.1	4036.5	3944.6	4008.8	4152.8	4142.4
12.5°	3318.1	3043.9	2882.5	2773.2	2903.3	2795.7	2792.3	2712.4	2625.7	2641.3	2872.1
15°	2495.5	2295.9	2105.0	1929.8	1926.3	1889.8	1704.2	1495.9	1478.6	1489.0	1608.7
17.5°	1716.3	1648.6	1570.5	1419.6	1379.6	1226.9	1046.4	963.1	921.5	940.6	980.5
20°	1206.1	1180.1	1188.7	1107.2	1049.9	904.1	798.3	765.3	758.4	777.5	796.5
22.5°	999.6	952.7	947.5	911.1	853.8	748.0	690.7	671.6	662.9	680.3	694.2
25°	874.6	827.8	808.7	786.1	725.4	652.5	617.8	600.4	591.8	602.2	610.9
27.5°	770.5	727.1	709.8	694.2	635.2	583.1	555.3	539.7	532.8	536.2	544.9
30°	692.4	654.2	631.7	612.6	562.3	525.8	501.5	485.9	479.0	479.0	487.6
32.5°	610.9	590.0	569.2	544.9	498.1	473.8	449.5	432.1	425.2	426.9	433.8
35°	508.5	501.5	506.7	484.2	444.3	423.4	399.1	380.1	374.8	376.6	383.5
37.5°	451.2	420.0	439.1	426.9	404.3	376.6	345.3	328.0	319.3	324.5	328.0
40°	414.8	376.6	362.7	374.8	371.4	326.3	298.5	281.1	274.2	275.9	279.4
42.5°	383.5	338.4	307.2	305.4	326.3	284.6	255.1	239.5	230.8	230.8	234.3
45°	354.0	305.4	267.3	237.7	274.2	241.2	213.5	199.6	189.2	189.2	190.9
47.5°	331.5	277.7	232.5	194.4	206.5	197.8	175.3	161.4	151.0	151.0	152.7
50°	310.6	249.9	201.3	163.1	154.5	163.1	142.3	126.7	119.7	118.0	121.5
52.5°	288.1	222.1	171.8	138.8	121.5	123.2	111.1	100.7	92.0	92.0	95.4
55°	265.5	199.6	149.2	118.0	100.7	92.0	88.5	81.6	74.6	74.6	78.1
57.5°	243.0	175.3	126.7	97.2	79.8	72.9	72.9	67.7	62.5	62.5	65.9
60°	222.1	151.0	104.1	79.8	62.5	60.7	62.5	57.3	53.8	53.8	57.3
62.5°	197.8	128.4	85.0	65.9	50.3	48.6	53.8	50.3	46.9	46.9	50.3
65°	168.3	109.3	67.7	50.3	38.2	38.2	45.1	41.6	38.2	38.2	41.6
67.5°	142.3	92.0	52.1	36.4	27.8	29.5	38.2	34.7	33.0	33.0	36.4
70°	118.0	71.2	36.4	22.6	15.6	22.6	29.5	29.5	29.5	29.5	33.0
72.5°	88.5	48.6	20.8	8.7	6.9	15.6	24.3	27.8	26.0	26.0	31.2
75°	57.3	27.8	6.9	0.0	0.0	8.7	19.1	22.6	22.6	20.8	26.0
77.5°	33.0	8.7	0.0	0.0	0.0	0.0	12.1	10.4	8.7	6.9	12.1
80°	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

REPORT NUMBER: P324342

CATALOG NUMBER: GLEON-SA8D-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12290.1	12290.1	12290.1	12290.1	12290.1	12290.1	12290.1	12290.1	12290.1	12290.1
2.5°	10828.9	11033.7	11321.7	11627.2	12097.5	12470.6	12836.7	13150.8	13272.3	13322.6
5°	8571.1	8871.3	9293.1	9834.5	10683.1	11446.7	12220.7	12999.9	13338.3	13423.3
7.5°	6150.2	6533.8	7070.0	7748.5	8742.9	9732.1	10813.3	11956.9	12481.0	12612.9
10°	4551.9	5020.5	5634.8	6349.8	7299.1	8316.0	9494.4	10801.1	11399.8	11575.1
12.5°	3229.6	3863.0	4685.6	5555.0	6377.6	7285.2	8477.4	9917.8	10546.0	10735.2
15°	1896.8	2509.4	3482.9	4647.4	5700.8	6620.5	7831.8	9464.9	10157.3	10348.2
17.5°	1088.1	1393.5	2129.3	3427.4	4857.4	6131.2	7628.8	9577.7	10393.3	10570.3
20°	831.3	928.4	1226.9	2207.4	3871.7	5650.5	7628.8	10216.3	11221.1	11481.4
22.5°	727.1	798.3	919.8	1317.2	2849.5	5135.0	7717.3	11139.5	12453.2	12741.3
25°	645.6	709.8	813.9	990.9	1943.6	4522.4	7927.3	12272.7	13904.0	14277.1
27.5°	577.9	638.6	732.3	867.7	1329.3	3783.2	8210.2	13602.0	15504.0	15802.5
30°	517.1	574.4	659.5	754.9	1025.6	2945.0	8451.4	14855.0	16760.5	17081.5
32.5°	459.9	511.9	588.3	659.5	839.9	2177.9	8477.4	15847.6	17803.4	18122.7
35°	406.1	452.9	522.4	577.9	695.9	1719.8	8073.1	16708.4	18846.4	19268.1
37.5°	354.0	399.1	459.9	501.5	612.6	1402.2	7455.3	17668.1	20184.4	20574.9
40°	305.4	345.3	407.8	435.6	579.6	1077.7	6783.7	18674.6	21496.4	21853.9
42.5°	260.3	298.5	359.2	413.0	508.5	805.2	6058.3	19618.7	22676.4	23051.3
45°	216.9	256.8	317.6	437.3	421.7	602.2	5282.5	20245.1	23608.3	24016.2
47.5°	175.3	220.4	303.7	416.5	336.7	442.5	4668.2	20838.6	24314.6	24717.3
50°	140.6	185.7	341.9	371.4	275.9	338.4	4411.4	21369.7	24778.0	25165.0
52.5°	114.5	156.2	322.8	284.6	230.8	279.4	4550.2	22230.4	25206.6	25449.6
55°	95.4	123.2	194.4	197.8	196.1	237.7	4722.0	23466.0	26315.6	26430.1
57.5°	83.3	98.9	135.4	152.7	164.9	211.7	4725.5	25239.6	28031.9	28103.0
60°	71.2	86.8	112.8	123.2	142.3	189.2	4553.7	25859.1	28706.9	28942.9
62.5°	62.5	76.4	93.7	102.4	119.7	170.1	4151.1	24961.9	27780.2	28181.1
65°	55.5	69.4	78.1	86.8	105.9	152.7	3488.1	23167.5	26242.7	26660.9
67.5°	48.6	60.7	69.4	78.1	95.4	135.4	2568.4	21083.3	24477.8	24824.9
70°	43.4	53.8	62.5	69.4	83.3	114.5	1558.4	17890.2	22037.8	22181.8
72.5°	41.6	48.6	57.3	62.5	72.9	100.7	789.6	13147.4	17617.7	17852.0
75°	36.4	43.4	52.1	55.5	64.2	86.8	321.0	8635.3	12767.3	13143.9
77.5°	29.5	39.9	46.9	50.3	55.5	71.2	163.1	5518.6	8959.9	9202.8
80°	10.4	29.5	39.9	41.6	46.9	52.1	107.6	3021.3	5197.5	5301.6
82.5°	0.0	19.1	31.2	29.5	33.0	39.9	69.4	1436.9	3430.9	3469.1
85°	0.0	8.7	24.3	19.1	13.9	27.8	24.3	314.1	1799.6	1874.2
87.5°	0.0	0.0	1.7	8.7	6.9	10.4	3.5	1.7	163.1	206.5
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

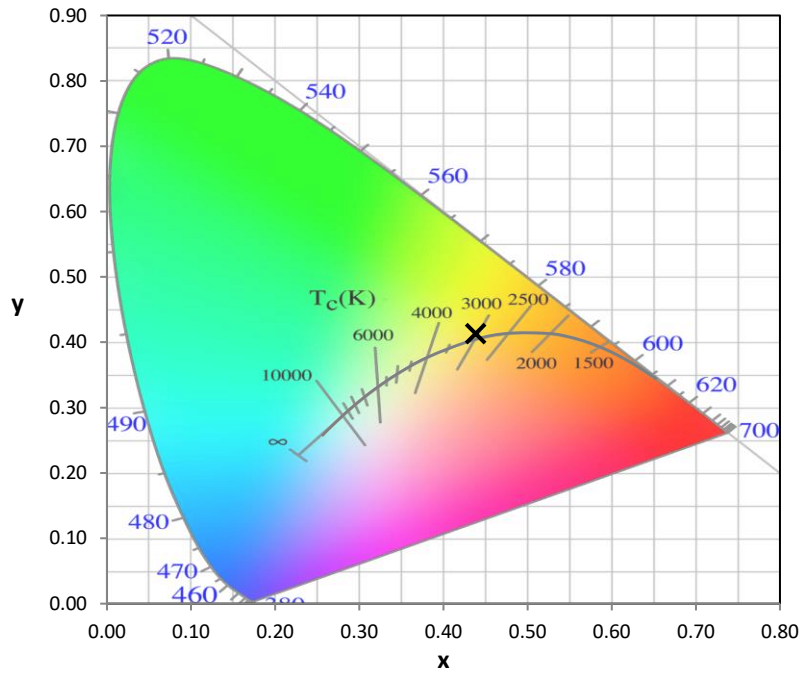
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

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

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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 ^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

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			

REPORT NUMBER: SP1-2408-195-9

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)