

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: P324324

Luminaire Tested: **GLEON-SA0B-830-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324324
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-SA0B-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 800mA 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: 33322 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

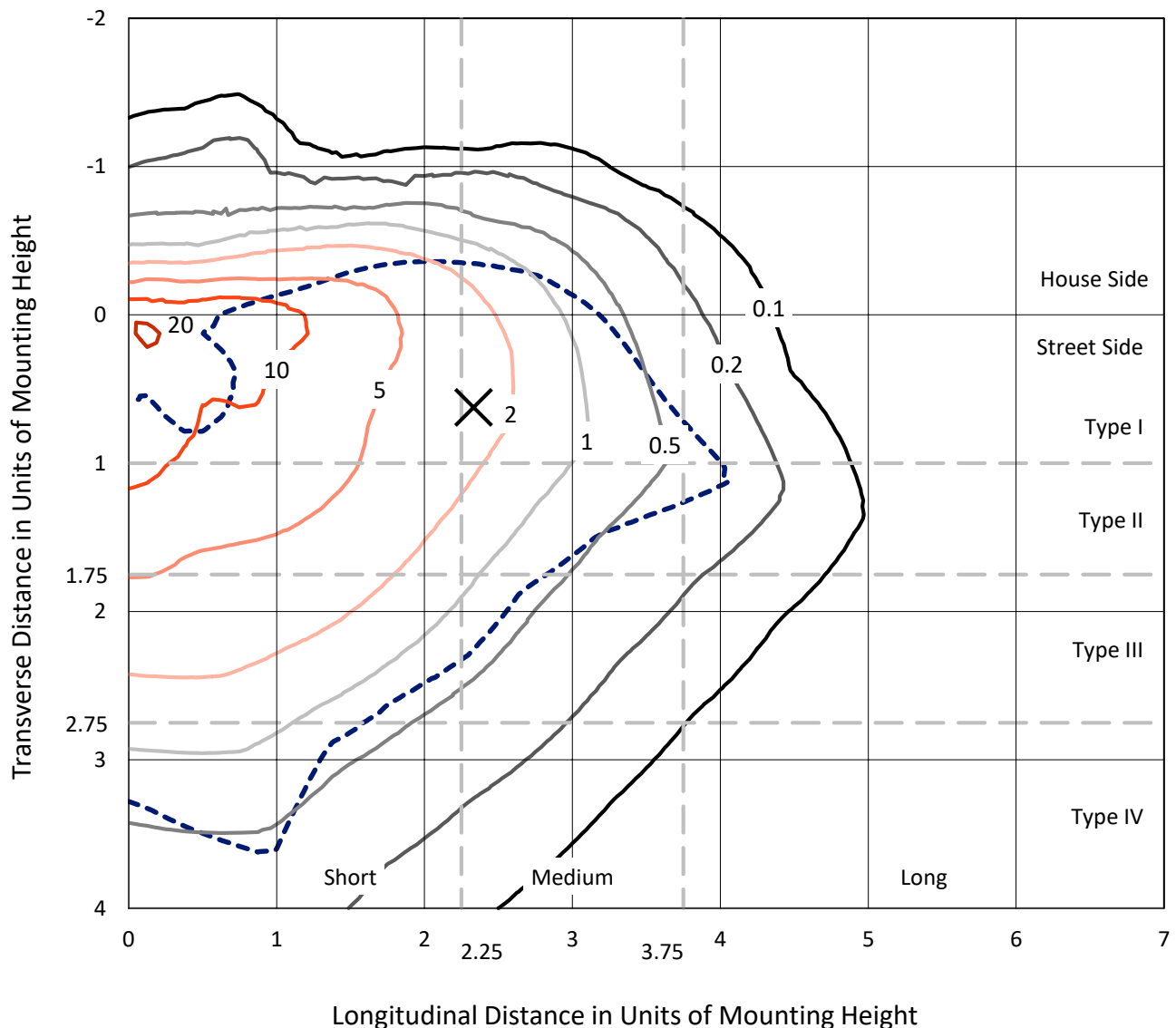
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

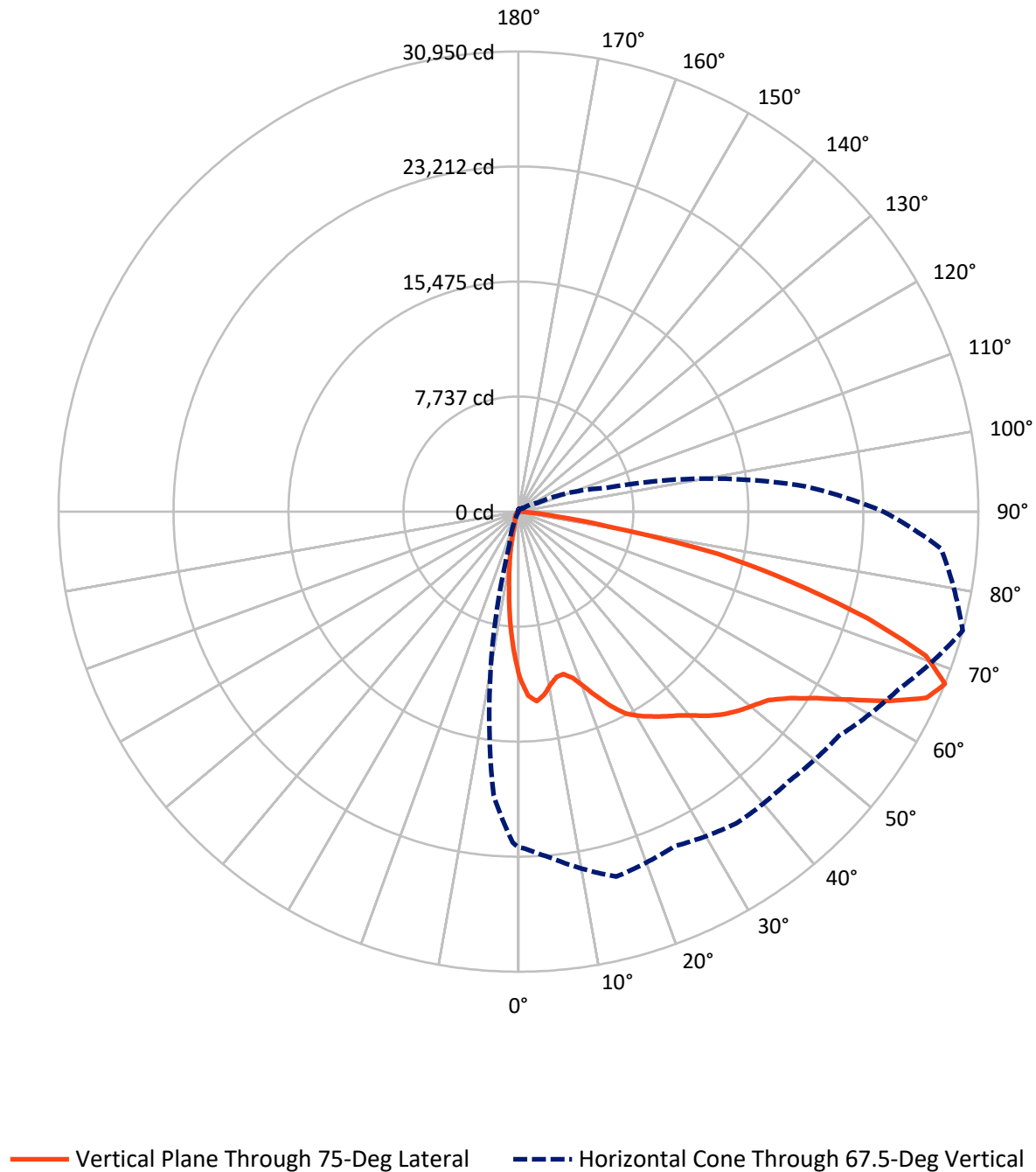
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.2 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	5000.3	0.0	5000.3
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	28321.7	0.0	28321.7
	% Fixture	85.0	0.0	85.0
Total	Lumens	33322.0	0.0	33322.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	848.0	2.5
10°-20°	1669.7	5.0
20°-30°	2362.1	7.1
30°-40°	3473.0	10.4
40°-50°	4991.8	15.0
50°-60°	7027.2	21.1
60°-70°	8207.1	24.6
70°-80°	4187.0	12.6
80°-90°	556.2	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°	33322.0	100.0
0°-180°	33322.0	100.0

Coefficient of Utilization



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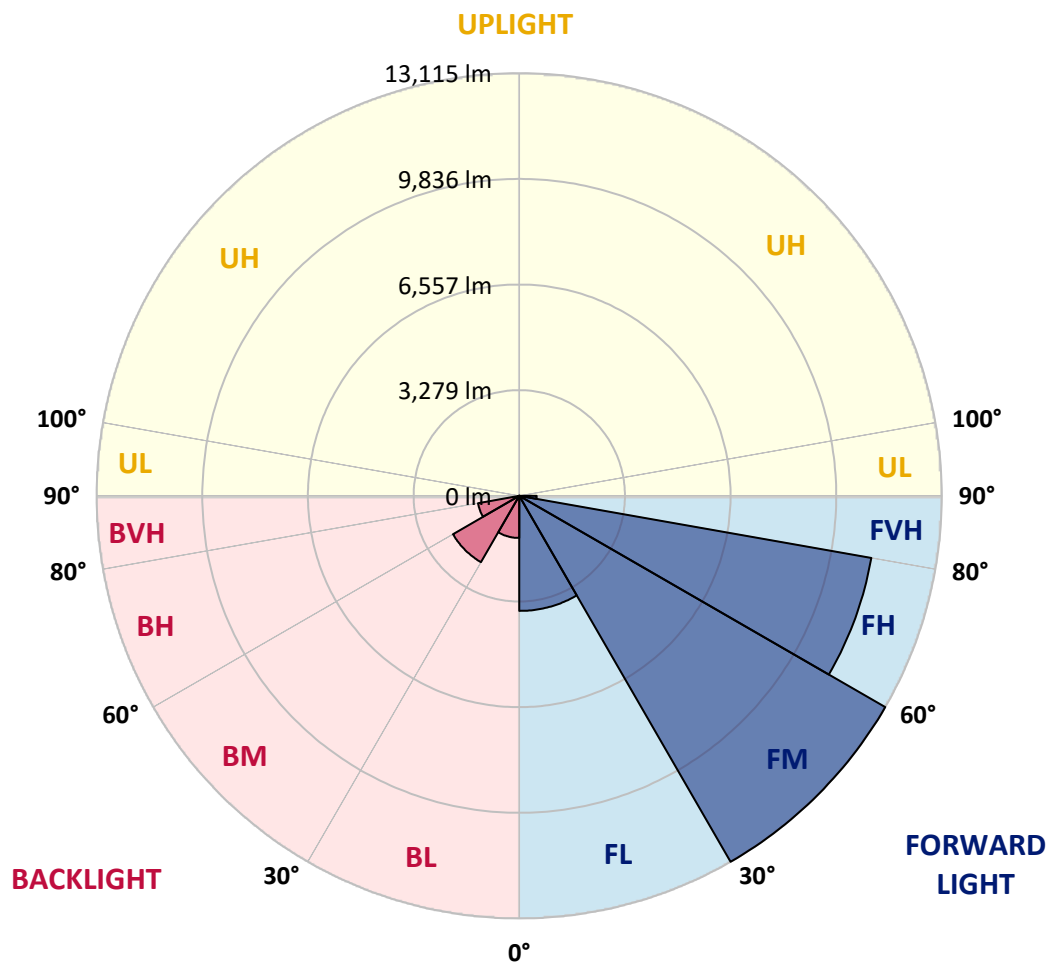
CATALOG NUMBER: GLEON-SA0B-830-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3572.1	10.7			
FM	(30°-60°)	13115.0	39.4			
FH	(60°-80°)	11095.3	33.3			G4/12000
FVH	(80°-90°)	539.3	1.6			G4/750
BL	(0°-30°)	1307.6	3.9	B3/2500		
BM	(30°-60°)	2377.0	7.1	B2/2500		
BH	(60°-80°)	1298.8	3.9	B3/2500		G3/2500
BVH	(80°-90°)	16.9	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11179.0	11179.0	11179.0	11179.0	11179.0	11179.0	11179.0	11179.0	11179.0	11179.0	11179.0
2.5°	12118.2	12137.1	12235.0	12462.3	12710.1	12729.1	12896.4	12724.3	12665.9	12388.1	12100.8
5°	12209.7	12282.3	12618.6	13286.3	13865.6	14051.8	14184.4	13846.6	13491.5	12812.7	12088.2
7.5°	11472.6	11594.1	12122.9	13376.2	14411.7	14869.5	14956.3	14427.5	13557.8	12440.2	11351.0
10°	10528.6	10667.5	11305.2	12845.9	14268.1	15052.6	15172.6	14479.6	13229.4	11837.2	10553.9
12.5°	9764.6	9927.2	10579.1	12249.2	13774.0	14642.2	14879.0	14304.4	12945.3	11409.4	10009.3
15°	9412.6	9598.9	10283.9	11864.0	13226.3	13909.8	14105.5	13857.7	12787.5	11341.5	9883.0
17.5°	9614.7	9816.7	10523.9	11897.2	12711.7	13003.7	13161.6	13262.6	12787.5	11750.4	10252.4
20°	10443.4	10661.2	11409.4	12233.4	12285.5	12176.6	12345.5	12700.6	12935.8	12527.0	11139.5
22.5°	11589.4	11845.1	12689.6	12809.6	12077.1	11665.1	11687.2	12244.5	13205.8	13512.0	12370.7
25°	12986.3	13298.9	14157.6	13668.3	12163.9	11360.5	11352.6	11868.8	13469.4	14498.6	13742.5
27.5°	14373.9	14718.0	15472.5	14716.4	12522.3	11305.2	11289.5	11755.1	13726.7	15376.2	15240.5
30°	15537.2	15871.9	16522.2	15475.6	12909.0	11434.7	11358.9	11876.7	13879.8	15946.0	16332.8
32.5°	16484.3	16752.7	17278.3	15998.1	13322.6	11685.7	11521.5	12201.8	14140.2	16427.5	17336.7
35°	17526.1	17808.7	18018.6	16495.4	13786.6	12047.1	11811.9	12718.0	14541.2	16916.8	18436.9
37.5°	18714.7	18995.7	18970.5	16950.0	14375.4	12645.4	12495.4	13535.7	15164.7	17401.4	19665.0
40°	19878.1	20165.4	19960.2	17447.2	15066.8	13632.0	13521.5	14763.7	15999.7	18021.8	21104.6
42.5°	20967.3	21278.2	20839.4	17917.6	15890.8	14875.8	15065.2	16345.4	17044.7	18785.8	22345.3
45°	21844.9	22162.2	21576.6	18375.4	16759.0	16384.9	16954.7	18097.5	18301.2	19431.4	23183.5
47.5°	22482.6	22782.5	22088.0	18833.1	17870.2	18230.1	19223.0	19934.9	19436.1	19991.7	23778.6
50°	22889.9	23123.5	22238.0	19406.1	19328.8	20383.2	21586.0	21933.3	20504.8	20496.9	24501.5
52.5°	23148.8	23254.5	22348.5	20004.4	20850.5	22727.3	23900.1	24009.0	21605.0	21052.5	25475.5
55°	24040.6	24125.8	23131.4	20728.9	22108.5	24780.9	25993.2	25892.2	22850.4	22140.1	26624.6
57.5°	25562.3	25652.3	24749.4	21770.7	23126.7	26050.0	27510.2	27691.7	24310.5	23668.1	27855.8
60°	26326.3	26493.6	26171.6	23090.3	24113.2	26861.4	28544.1	29123.4	26135.3	25682.3	29049.2
62.5°	25633.3	25876.4	26343.6	24553.6	25093.5	27308.1	28866.1	29636.4	28004.2	28029.5	29784.8
65°	24250.5	24444.7	25237.1	25355.5	25661.7	27252.9	28070.5	28919.8	29148.6	30185.7	29745.3
67.5°	22580.5	22653.1	23325.5	25418.6	24837.8	25592.3	25680.7	26308.9	28244.2	30949.7	28550.4
70°	20176.4	20215.9	20803.1	23305.0	21344.5	21510.3	21379.3	21507.1	24282.1	29088.7	25533.9
72.5°	16238.1	16337.5	17172.5	19354.0	15549.8	15071.6	16100.7	16043.9	18700.5	24575.7	18964.1
75°	11955.6	12127.6	13388.9	15589.3	10913.8	9872.0	10623.3	10823.8	13294.2	19009.9	11859.3
77.5°	8370.8	8498.7	9720.4	11459.9	7898.8	7059.1	6787.6	7025.9	8774.9	13751.9	5974.6
80°	4822.3	4869.7	5649.5	6617.1	5322.7	6089.9	5516.9	5681.0	5258.0	6118.3	2569.8
82.5°	3155.4	3163.3	3468.0	3938.4	3314.9	3851.5	2850.8	3644.8	3234.4	2457.7	836.6
85°	1704.8	1714.3	2011.0	2795.5	1876.8	1060.8	623.5	1280.2	2000.0	563.5	228.9
87.5°	187.8	172.1	606.1	1016.6	520.9	96.3	33.1	143.6	320.4	36.3	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°	11179.0	11179.0	11179.0	11179.0	11179.0	11179.0	11179.0	11179.0	11179.0	11179.0	11179.0
2.5°	11954.0	11823.0	11496.2	11150.5	10872.7	10612.3	10350.2	10029.8	9782.0	9731.5	9649.4
5°	11698.3	11283.1	10598.1	9909.8	9355.8	8656.5	8213.0	7867.3	7529.5	7508.9	7441.1
7.5°	10804.9	10258.7	9294.2	8342.4	7562.6	6896.5	6224.0	5774.2	5420.6	5295.9	5221.7
10°	9946.1	9332.1	8127.7	7041.7	6345.6	5756.8	5283.3	4812.9	4386.7	4093.1	3960.5
12.5°	9346.3	8667.6	7340.0	6404.0	5905.2	5346.4	4768.7	4181.5	3690.5	3337.0	3120.7
15°	9114.3	8389.7	7076.4	6151.4	5535.8	4828.6	4089.9	3419.0	2874.5	2554.0	2359.9
17.5°	9390.5	8547.6	7055.9	5843.6	4983.3	4104.1	3288.0	2495.6	1982.6	1739.5	1614.8
20°	10091.4	9049.6	7048.0	5466.4	4326.7	3245.4	2227.3	1641.6	1330.7	1194.9	1136.5
22.5°	11082.7	9690.4	7111.2	5093.8	3643.2	2318.8	1537.5	1206.0	1046.5	973.9	940.8
25°	12358.1	10590.2	7289.5	4756.0	3000.7	1730.0	1198.1	1010.2	898.2	841.3	817.7
27.5°	13717.2	11625.7	7567.3	4462.4	2478.3	1379.6	1026.0	865.0	784.5	745.1	723.0
30°	14837.9	12825.3	7848.3	4135.7	2099.4	1202.8	939.2	789.3	696.1	670.9	650.3
32.5°	15818.2	13733.0	8047.2	3840.5	1851.6	1068.6	849.2	705.6	642.5	593.5	571.4
35°	16833.2	14489.1	8040.9	3633.7	1681.1	967.6	773.5	631.4	555.6	498.8	481.4
37.5°	17931.8	15343.1	7903.6	3456.9	1606.9	887.1	730.8	591.9	516.2	459.3	437.2
40°	19218.3	16239.6	7763.1	3291.2	1586.4	822.4	700.9	560.4	479.9	424.6	402.5
42.5°	20471.6	17047.8	7640.0	3168.1	1498.0	820.8	674.0	536.7	451.5	397.8	372.5
45°	21474.0	17800.8	7616.3	3093.9	1404.9	849.2	659.8	520.9	429.4	375.7	352.0
47.5°	22307.4	18618.4	7767.8	3041.8	1316.5	775.0	694.5	509.9	408.8	356.7	329.9
50°	23298.7	19622.4	8124.6	2956.5	1223.3	697.7	795.6	513.0	391.5	337.8	309.4
52.5°	24681.5	21011.5	8648.6	2812.9	1095.5	626.7	782.9	516.2	372.5	317.3	288.9
55°	26231.6	22746.2	9212.1	2574.5	917.1	533.5	670.9	494.1	336.2	295.2	268.3
57.5°	27860.6	24320.0	9546.8	2290.4	729.3	460.9	536.7	449.9	296.8	265.2	247.8
60°	28116.3	24918.3	9393.7	1941.6	579.3	400.9	397.8	457.8	265.2	233.6	221.0
62.5°	27480.2	24166.9	8653.4	1630.6	484.6	352.0	326.8	399.4	239.9	208.4	195.7
65°	26256.8	22135.4	7453.7	1469.6	449.9	301.5	271.5	281.0	209.9	181.5	170.5
67.5°	24555.2	19423.5	6119.9	1378.0	445.1	258.9	232.0	213.1	181.5	157.9	148.4
70°	21076.2	16181.2	4882.3	1327.5	432.5	217.8	195.7	173.6	151.5	134.2	126.3
72.5°	15512.0	11466.2	3797.9	1272.3	435.7	173.6	170.5	143.6	121.5	104.2	101.0
75°	8962.7	6550.8	2490.9	1030.8	415.1	134.2	142.1	101.0	85.2	72.6	72.6
77.5°	4776.6	3995.2	948.7	429.4	151.5	85.2	80.5	60.0	53.7	44.2	42.6
80°	2082.0	1758.5	285.7	120.0	83.7	45.8	30.0	26.8	23.7	18.9	17.4
82.5°	737.2	636.1	93.1	58.4	36.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	167.3	120.0	0.0	14.2	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°	11179.0	11179.0	11179.0	11179.0	11179.0	11179.0	11179.0	11179.0	11179.0	11179.0	11179.0
2.5°	9482.1	9447.3	9242.1	9250.0	9286.3	9338.4	9215.3	9272.1	9425.2	9572.0	9627.3
5°	7332.1	7340.0	7215.3	7292.7	7362.1	7409.5	7210.6	7213.8	7335.3	7501.0	7587.9
7.5°	5166.4	5153.8	5160.1	5344.8	5475.8	5381.1	5455.3	5198.0	5213.8	5332.2	5243.8
10°	3840.5	3666.9	3569.0	3707.9	3851.5	3799.5	3671.6	3587.9	3646.3	3777.4	3767.9
12.5°	3018.1	2768.7	2621.9	2522.4	2640.8	2543.0	2539.8	2467.2	2388.3	2402.5	2612.4
15°	2269.9	2088.4	1914.7	1755.3	1752.1	1719.0	1550.1	1360.7	1344.9	1354.4	1463.3
17.5°	1561.1	1499.6	1428.5	1291.2	1254.9	1116.0	951.8	876.1	838.2	855.5	891.9
20°	1097.1	1073.4	1081.3	1007.1	955.0	822.4	726.1	696.1	689.8	707.2	724.5
22.5°	909.2	866.6	861.9	828.7	776.6	680.3	628.2	610.9	603.0	618.8	631.4
25°	795.6	752.9	735.6	715.1	659.8	593.5	561.9	546.2	538.3	547.7	555.6
27.5°	700.9	661.4	645.6	631.4	577.7	530.4	505.1	490.9	484.6	487.8	495.7
30°	629.8	595.1	574.6	557.2	511.4	478.3	456.2	442.0	435.7	435.7	443.6
32.5°	555.6	536.7	517.7	495.7	453.0	430.9	408.8	393.0	386.7	388.3	394.6
35°	462.5	456.2	460.9	440.4	404.1	385.2	363.1	345.7	341.0	342.5	348.8
37.5°	410.4	382.0	399.4	388.3	367.8	342.5	314.1	298.3	290.4	295.2	298.3
40°	377.3	342.5	329.9	341.0	337.8	296.8	271.5	255.7	249.4	251.0	254.1
42.5°	348.8	307.8	279.4	277.8	296.8	258.9	232.0	217.8	209.9	209.9	213.1
45°	322.0	277.8	243.1	216.3	249.4	219.4	194.2	181.5	172.1	172.1	173.6
47.5°	301.5	252.6	211.5	176.8	187.8	179.9	159.4	146.8	137.3	137.3	138.9
50°	282.6	227.3	183.1	148.4	140.5	148.4	129.4	115.2	108.9	107.3	110.5
52.5°	262.0	202.0	156.3	126.3	110.5	112.1	101.0	91.6	83.7	83.7	86.8
55°	241.5	181.5	135.8	107.3	91.6	83.7	80.5	74.2	67.9	67.9	71.0
57.5°	221.0	159.4	115.2	88.4	72.6	66.3	66.3	61.6	56.8	56.8	60.0
60°	202.0	137.3	94.7	72.6	56.8	55.2	56.8	52.1	48.9	48.9	52.1
62.5°	179.9	116.8	77.3	60.0	45.8	44.2	48.9	45.8	42.6	42.6	45.8
65°	153.1	99.4	61.6	45.8	34.7	34.7	41.0	37.9	34.7	34.7	37.9
67.5°	129.4	83.7	47.4	33.1	25.3	26.8	34.7	31.6	30.0	30.0	33.1
70°	107.3	64.7	33.1	20.5	14.2	20.5	26.8	26.8	26.8	26.8	30.0
72.5°	80.5	44.2	18.9	7.9	6.3	14.2	22.1	25.3	23.7	23.7	28.4
75°	52.1	25.3	6.3	0.0	0.0	7.9	17.4	20.5	20.5	18.9	23.7
77.5°	30.0	7.9	0.0	0.0	0.0	0.0	11.0	9.5	7.9	6.3	11.0
80°	7.9	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: P324324

CATALOG NUMBER: GLEON-SA0B-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11179.0	11179.0	11179.0	11179.0	11179.0	11179.0	11179.0	11179.0	11179.0	11179.0
2.5°	9849.9	10036.1	10298.2	10576.0	11003.7	11343.1	11676.2	11961.9	12072.4	12118.2
5°	7796.2	8069.3	8452.9	8945.4	9717.3	10411.8	11115.8	11824.6	12132.4	12209.7
7.5°	5594.2	5943.1	6430.8	7048.0	7952.5	8852.2	9835.7	10875.9	11352.6	11472.6
10°	4140.4	4566.6	5125.4	5775.7	6639.2	7564.2	8636.0	9824.6	10369.2	10528.6
12.5°	2937.6	3513.7	4262.0	5052.8	5801.0	6626.6	7711.0	9021.1	9592.6	9764.6
15°	1725.3	2282.5	3168.1	4227.2	5185.4	6022.0	7123.8	8609.2	9239.0	9412.6
17.5°	989.7	1267.5	1936.8	3117.5	4418.2	5576.9	6939.1	8711.8	9453.7	9614.7
20°	756.1	844.5	1116.0	2007.9	3521.6	5139.6	6939.1	9292.6	10206.6	10443.4
22.5°	661.4	726.1	836.6	1198.1	2591.9	4670.8	7019.6	10132.4	11327.3	11589.4
25°	587.2	645.6	740.3	901.3	1767.9	4113.6	7210.6	11163.2	12647.0	12986.3
27.5°	525.6	580.9	666.1	789.3	1209.1	3441.1	7467.9	12372.3	14102.3	14373.9
30°	470.4	522.5	599.8	686.6	932.9	2678.7	7687.3	13512.0	15245.2	15537.2
32.5°	418.3	465.7	535.1	599.8	764.0	1981.0	7711.0	14414.9	16193.9	16484.3
35°	369.4	412.0	475.1	525.6	633.0	1564.3	7343.2	15197.8	17142.5	17526.1
37.5°	322.0	363.1	418.3	456.2	557.2	1275.4	6781.3	16070.7	18359.6	18714.7
40°	277.8	314.1	370.9	396.2	527.2	980.3	6170.4	16986.3	19552.9	19878.1
42.5°	236.8	271.5	326.8	375.7	462.5	732.4	5510.6	17845.0	20626.3	20967.3
45°	197.3	233.6	288.9	397.8	383.6	547.7	4805.0	18414.8	21474.0	21844.9
47.5°	159.4	200.5	276.2	378.8	306.2	402.5	4246.2	18954.7	22116.4	22482.6
50°	127.9	168.9	311.0	337.8	251.0	307.8	4012.6	19437.7	22537.9	22889.9
52.5°	104.2	142.1	293.6	258.9	209.9	254.1	4138.8	20220.6	22927.8	23148.8
55°	86.8	112.1	176.8	179.9	178.4	216.3	4295.1	21344.5	23936.4	24040.6
57.5°	75.8	90.0	123.1	138.9	150.0	192.6	4298.3	22957.8	25497.6	25562.3
60°	64.7	78.9	102.6	112.1	129.4	172.1	4142.0	23521.3	26111.6	26326.3
62.5°	56.8	69.5	85.2	93.1	108.9	154.7	3775.8	22705.2	25268.7	25633.3
65°	50.5	63.1	71.0	78.9	96.3	138.9	3172.8	21073.0	23870.1	24250.5
67.5°	44.2	55.2	63.1	71.0	86.8	123.1	2336.2	19177.2	22264.8	22580.5
70°	39.5	48.9	56.8	63.1	75.8	104.2	1417.5	16272.8	20045.4	20176.4
72.5°	37.9	44.2	52.1	56.8	66.3	91.6	718.2	11958.7	16025.0	16238.1
75°	33.1	39.5	47.4	50.5	58.4	78.9	292.0	7854.6	11613.0	11955.6
77.5°	26.8	36.3	42.6	45.8	50.5	64.7	148.4	5019.6	8149.8	8370.8
80°	9.5	26.8	36.3	37.9	42.6	47.4	97.9	2748.2	4727.6	4822.3
82.5°	0.0	17.4	28.4	26.8	30.0	36.3	63.1	1307.0	3120.7	3155.4
85°	0.0	7.9	22.1	17.4	12.6	25.3	22.1	285.7	1636.9	1704.8
87.5°	0.0	0.0	1.6	7.9	6.3	9.5	3.2	1.6	148.4	187.8
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

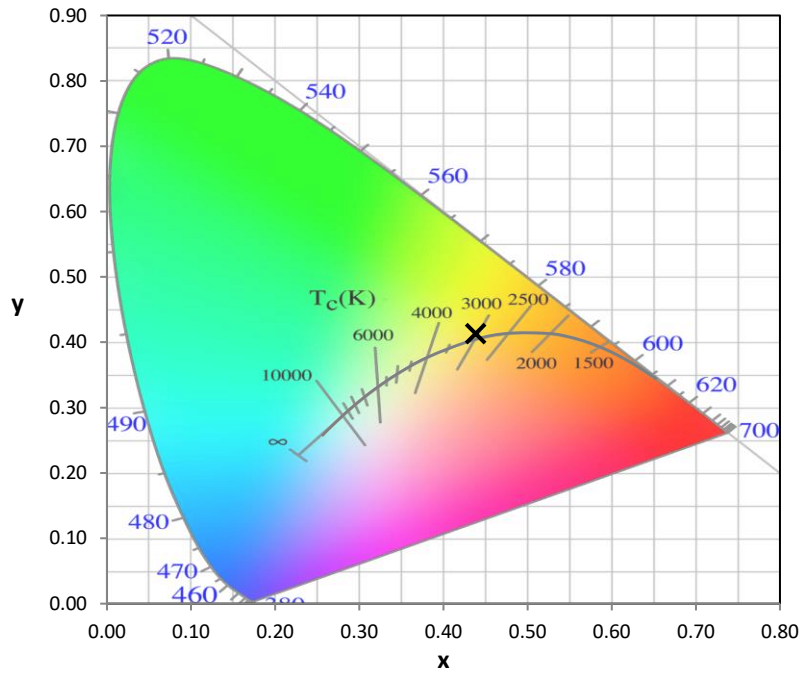
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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			

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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			

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)