Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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Scaled data based on original data using

LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P1197963

Luminaire Tested: GPC-SB1B-830-U-SLL

Issue Date: 10/30/2025

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1197963
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8)
Test Lab:	INNOVATION CENTER
Issue Date:	3/15/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GPC-SB1B-830-U-SLL
Description:	GALLEON PEDESTRIAN LUMINAIRE
	(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5068 lumens
Efficiency:	N/A
Efficacy:	127.3 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	39.8
Input Voltage (V):	120.0
Input Current (Ain):	0.33
Voltage Rise (V):	NR
Power Factor:	0.996
Total Harmonic Distortion (THDi):	5.305
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

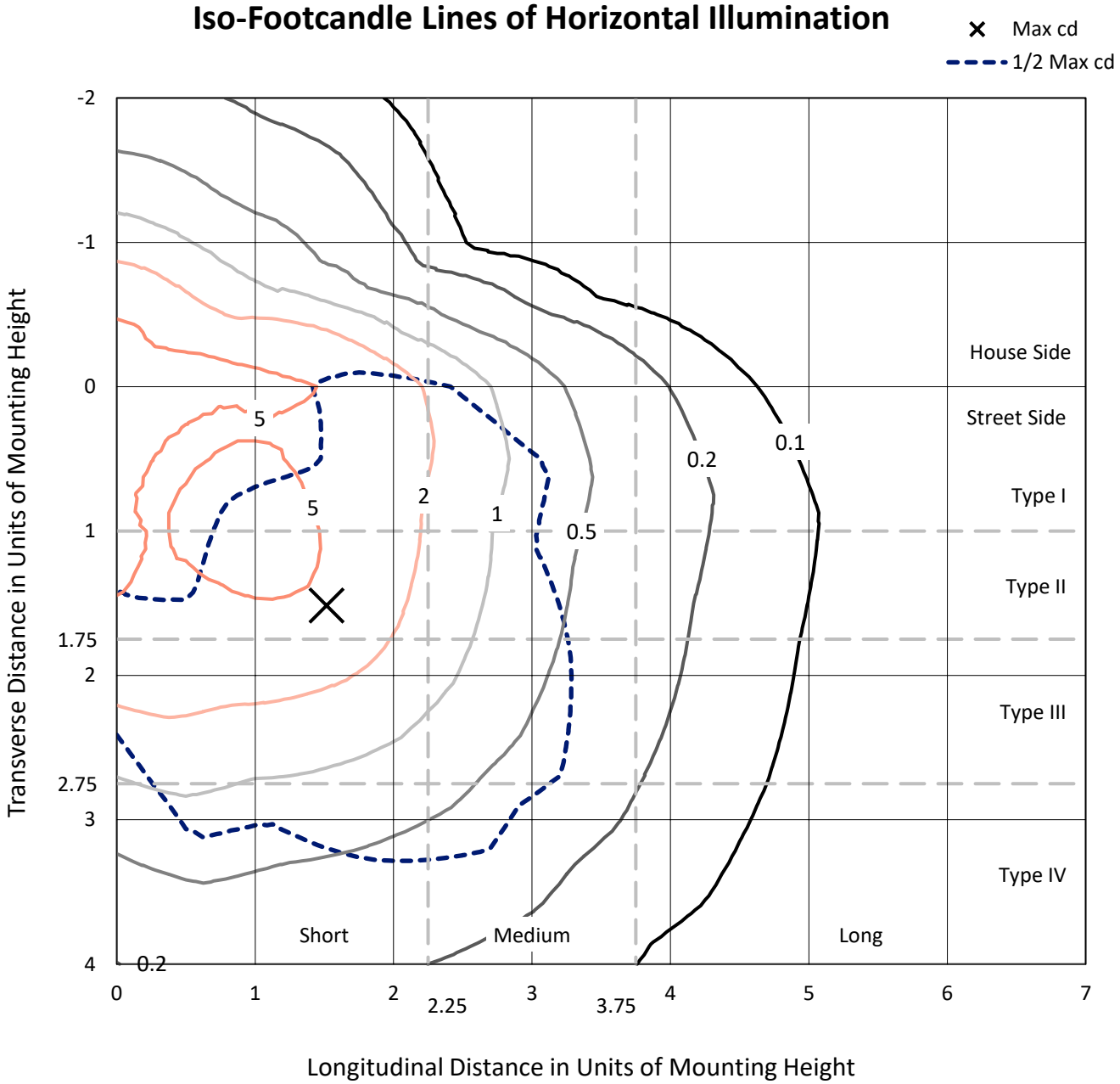


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Iso-Footcandle Lines of Horizontal Illumination



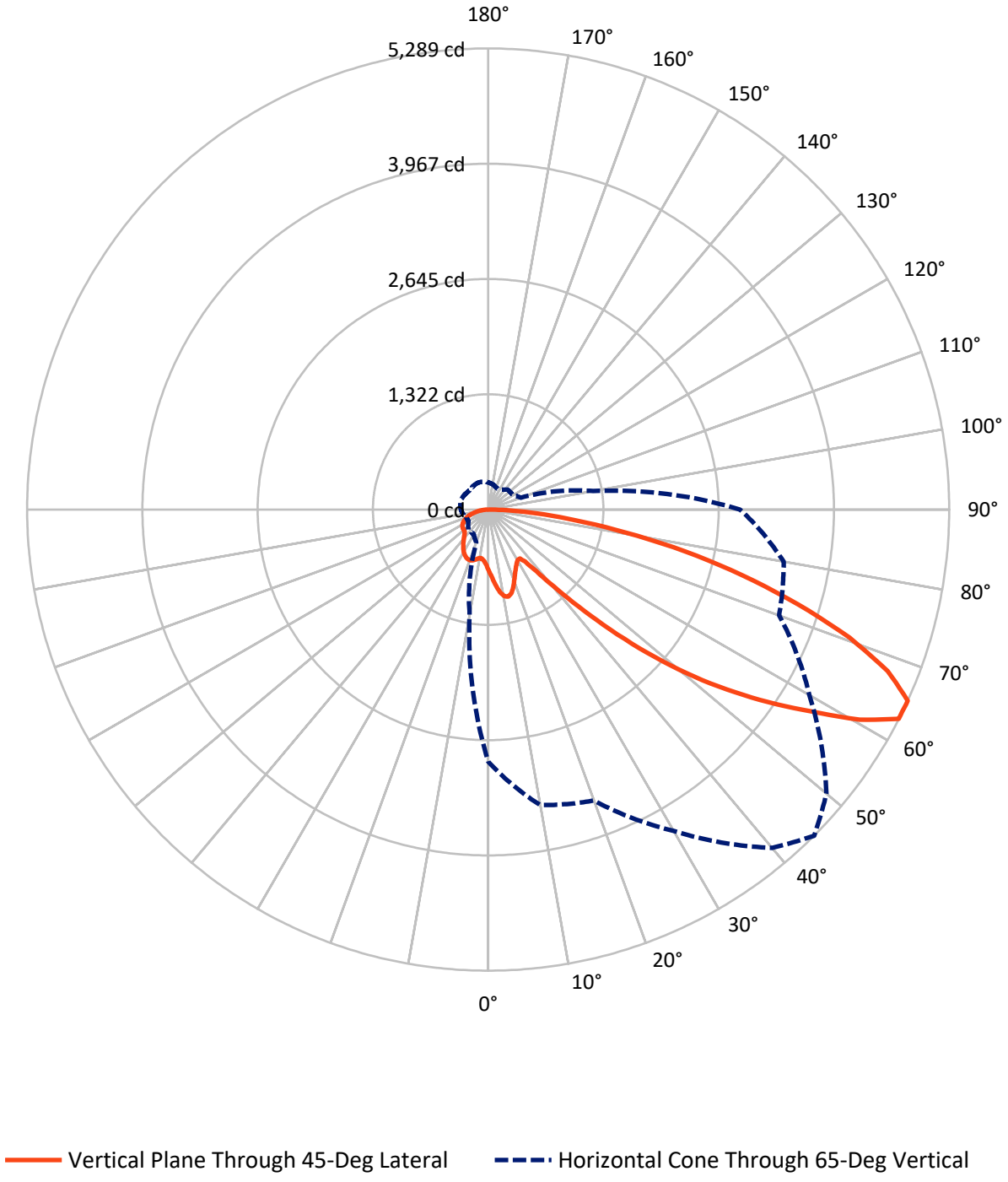
Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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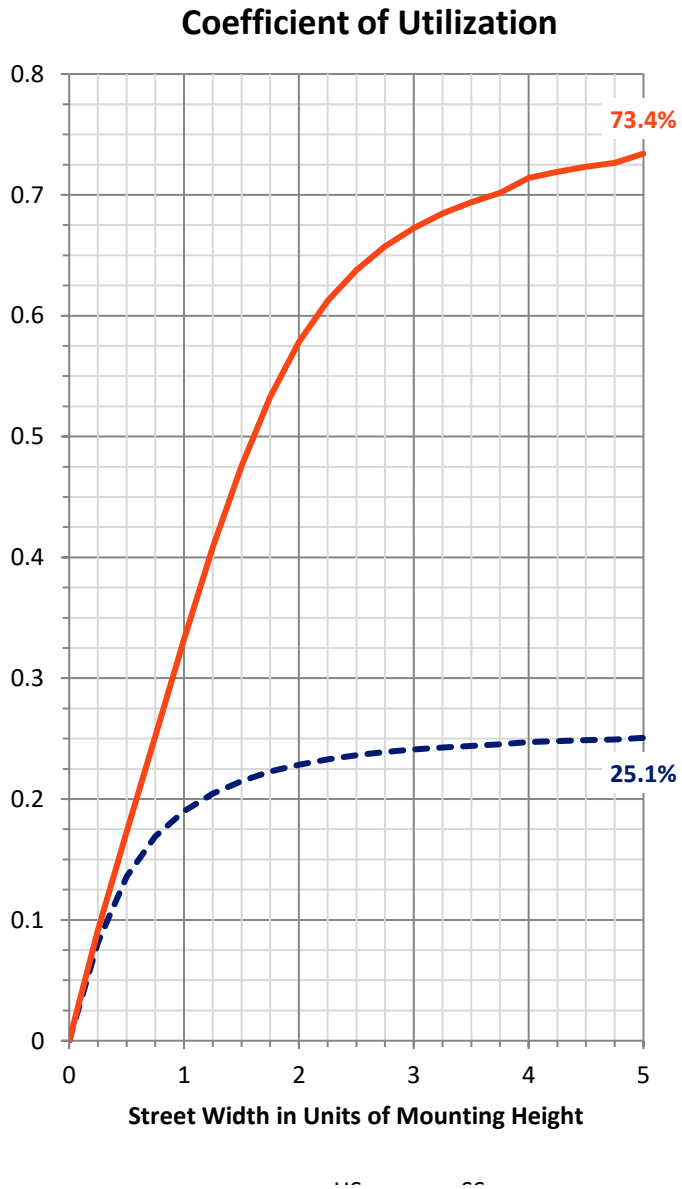
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1288.0	0.0	1288.0
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	3780.0	0.0	3780.0
	% Fixture	74.6	0.0	74.6
Total	Lumens	5068.0	0.0	5068.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	1.4
10°-20°	217.0	4.3
20°-30°	335.2	6.6
30°-40°	424.8	8.4
40°-50°	640.7	12.6
50°-60°	1035.2	20.4
60°-70°	1290.5	25.5
70°-80°	846.2	16.7
80°-90°	209.2	4.1
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°	5068.0	100.0
0°-180°	5068.0	100.0



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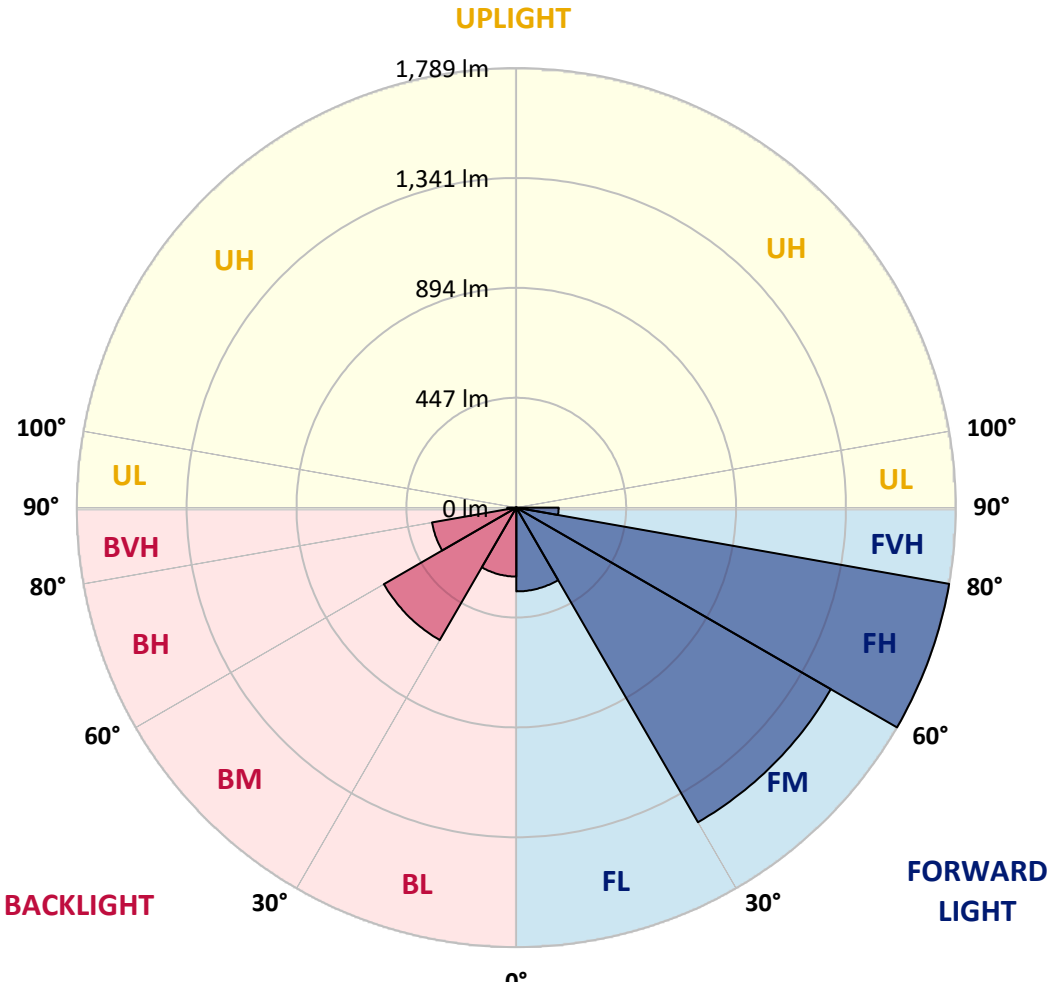
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	340.9	6.7			
FM	(30°-60°)	1478.2	29.2			
FH	(60°-80°)	1788.5	35.3			G1/1800
FVH	(80°-90°)	172.3	3.4			G2/225
BL	(0°-30°)	280.5	5.5	B1/500		
BM	(30°-60°)	622.5	12.3	B1/1000		
BH	(60°-80°)	348.2	6.9	B1/500		G1/500
BVH	(80°-90°)	36.9	0.7			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	*696.9*	696.9
2.5°	749.4	752.3	755.1	759.2	763.2	765.6	768.0	769.2	770.4	*769.9*	770.4
5°	805.9	815.8	825.7	835.6	845.4	850.8	856.1	859.4	862.6	*865.1*	862.6
7.5°	862.6	878.7	894.8	909.4	923.9	932.6	941.4	946.1	950.8	*953.1*	950.8
10°	906.0	925.1	944.2	961.2	978.3	988.6	998.9	1003.5	1008.0	*1009.8*	1008.0
12.5°	932.6	953.3	974.0	989.4	1004.7	1012.2	1019.7	1022.2	1024.7	*1025.0*	1024.7
15°	948.8	966.7	984.5	994.2	1003.8	1004.1	1004.4	1001.7	999.0	*995.9*	999.0
17.5°	957.9	970.0	982.0	982.2	982.4	971.5	960.7	950.8	940.8	*933.8*	940.8
20°	967.9	972.1	976.3	963.6	950.9	927.0	903.1	885.7	868.3	*857.6*	868.3
22.5°	979.6	974.0	968.5	942.2	915.9	880.7	845.6	823.8	802.0	*790.2*	802.0
25°	994.5	977.1	959.8	919.8	879.9	837.2	794.4	771.6	748.7	*737.5*	748.7
27.5°	1014.9	983.8	952.7	899.8	846.9	799.5	752.2	729.7	707.2	*696.6*	707.2
30°	1042.3	995.9	949.6	884.5	819.3	770.0	720.7	699.8	678.9	*669.1*	678.9
32.5°	1074.6	1011.2	947.7	874.0	800.3	754.0	707.6	691.3	674.8	*667.7*	674.8
35°	1113.9	1036.3	958.6	881.8	805.1	772.9	740.7	736.9	733.0	*732.5*	733.0
37.5°	1180.1	1088.8	997.4	927.6	857.8	855.7	853.7	871.1	888.6	*897.7*	888.6
40°	1280.1	1180.8	1081.4	1029.5	977.6	1014.3	1050.9	1093.4	1135.9	*1157.1*	1135.9
42.5°	1412.8	1314.2	1215.6	1185.7	1155.8	1235.7	1315.6	1393.0	1470.3	*1515.7*	1470.3
45°	1576.6	1488.0	1399.5	1386.3	1373.1	1501.1	1629.1	1756.2	1883.3	*1960.4*	1883.3
47.5°	1781.4	1695.3	1609.1	1606.4	1603.8	1788.4	1973.1	2159.1	2345.1	*2454.4*	2345.1
50°	2049.9	1943.5	1837.1	1837.6	1838.0	2076.0	2314.0	2559.6	2805.2	*2953.6*	2805.2
52.5°	2358.1	2229.3	2100.4	2087.4	2074.4	2358.7	2643.0	2946.8	3250.6	*3428.6*	3250.6
55°	2686.2	2558.9	2431.6	2380.9	2330.1	2646.5	2962.9	3325.1	3687.3	*3899.0*	3687.3
57.5°	2984.7	2915.3	2846.0	2744.1	2642.3	2961.8	3281.3	3691.6	4101.8	*4364.3*	4101.8
60°	3165.0	3272.7	3380.4	3253.9	3127.4	3429.8	3732.1	4171.4	4610.6	*4894.3*	4610.6
62.5°	3073.4	3367.6	3661.8	3647.6	3633.3	3910.3	4187.2	4605.2	5023.1	*5285.3*	5023.1
65°	*2890.1*	*3166.2*	*3442.3*	*3497.0*	*3551.6*	*3903.6*	*4255.6*	*4660.8*	*5066.0*	*5289.3*	*5066.0*
67.5°	2644.5	2907.1	3169.7	3195.3	3220.9	3587.7	3954.4	4361.4	4768.3	*4943.2*	4768.3
70°	2349.4	2635.0	2920.7	2932.1	2943.6	3271.6	3599.5	3949.8	4300.0	*4397.2*	4300.0
72.5°	1997.8	2325.5	2653.3	2661.6	2669.8	2926.4	3183.0	3445.3	3707.5	*3717.4*	3707.5
75°	1552.9	1892.1	2231.4	2261.9	2292.3	2491.9	2691.6	2876.2	3060.9	*3011.4*	3060.9
77.5°	1109.5	1426.2	1742.9	1786.5	1830.1	1981.8	2133.6	2264.6	2395.5	*2310.5*	2395.5
80°	726.2	992.6	1259.0	1313.2	1367.4	1482.0	1596.5	1665.3	1734.1	*1597.3*	1734.1
82.5°	422.1	604.3	786.4	846.9	907.5	986.4	1065.3	1094.0	1122.6	*1015.1*	1122.6
85°	185.7	282.4	379.1	430.5	482.0	546.8	611.6	627.9	644.2	*558.1*	644.2
87.5°	57.5	90.0	122.5	151.2	179.9	212.3	244.7	246.1	247.5	*207.8*	247.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9
2.5°	769.2	768.0	765.6	763.2	759.2	755.1	752.3	749.4	743.7	737.9	731.8
5°	859.4	856.1	850.8	845.4	835.6	825.7	815.8	805.9	793.2	780.5	767.8
7.5°	946.1	941.4	932.6	923.9	909.4	894.8	878.7	862.6	841.6	820.7	801.3
10°	1003.5	998.9	988.6	978.3	961.2	944.2	925.1	906.0	879.5	853.0	827.4
12.5°	1022.2	1019.7	1012.2	1004.7	989.4	974.0	953.3	932.6	903.5	874.4	845.4
15°	1001.7	1004.4	1004.1	1003.8	994.2	984.5	966.7	948.8	918.5	888.1	856.6
17.5°	950.8	960.7	971.5	982.4	982.2	982.0	970.0	957.9	927.1	896.3	862.0
20°	885.7	903.1	927.0	950.9	963.6	976.3	972.1	967.9	935.9	903.9	866.2
22.5°	823.8	845.6	880.7	915.9	942.2	968.5	974.0	979.6	946.9	914.2	871.9
25°	771.6	794.4	837.2	879.9	919.8	959.8	977.1	994.5	962.5	930.5	882.2
27.5°	729.7	752.2	799.5	846.9	899.8	952.7	983.8	1014.9	984.3	953.7	898.2
30°	699.8	720.7	770.0	819.3	884.5	949.6	995.9	1042.3	1012.7	983.2	919.0
32.5°	691.3	707.6	754.0	800.3	874.0	947.7	1011.2	1074.6	1045.4	1016.2	940.7
35°	736.9	740.7	772.9	805.1	881.8	958.6	1036.3	1113.9	1086.0	1058.0	965.4
37.5°	871.1	853.7	855.7	857.8	927.6	997.4	1088.8	1180.1	1144.4	1108.8	993.1
40°	1093.4	1050.9	1014.3	977.6	1029.5	1081.4	1180.8	1280.1	1228.1	1176.2	1028.2
42.5°	1393.0	1315.6	1235.7	1155.8	1185.7	1215.6	1314.2	1412.8	1337.7	1262.7	1074.2
45°	1756.2	1629.1	1501.1	1373.1	1386.3	1399.5	1488.0	1576.6	1475.4	1374.1	1134.7
47.5°	2159.1	1973.1	1788.4	1603.8	1606.4	1609.1	1695.3	1781.4	1639.0	1496.5	1199.1
50°	2559.6	2314.0	2076.0	1838.0	1837.6	1837.1	1943.5	2049.9	1835.1	1620.3	1258.9
52.5°	2946.8	2643.0	2358.7	2074.4	2087.4	2100.4	2229.3	2358.1	2041.2	1724.3	1297.7
55°	3325.1	2962.9	2646.5	2330.1	2380.9	2431.6	2558.9	2686.2	2223.9	1761.6	1289.2
57.5°	3691.6	3281.3	2961.8	2642.3	2744.1	2846.0	2915.3	2984.7	2353.4	1722.1	1229.0
60°	4171.4	3732.1	3429.8	3127.4	3253.9	3380.4	3272.7	3165.0	2385.8	1606.4	1116.9
62.5°	4605.2	4187.2	3910.3	3633.3	3647.6	3661.8	3367.6	3073.4	2249.5	1425.6	965.3
65°	*4660.8*	*4255.6*	*3903.6*	*3551.6*	*3497.0*	*3442.3*	*3166.2*	*2890.1*	*2056.7*	*1223.3*	*810.7*
67.5°	4361.4	3954.4	3587.7	3220.9	3195.3	3169.7	2907.1	2644.5	1827.3	1010.1	659.2
70°	3949.8	3599.5	3271.6	2943.6	2932.1	2920.7	2635.0	2349.4	1577.0	804.5	519.1
72.5°	3445.3	3183.0	2926.4	2669.8	2661.6	2653.3	2325.5	1997.8	1305.6	613.5	396.8
75°	2876.2	2691.6	2491.9	2292.3	2261.9	2231.4	1892.1	1552.9	994.5	436.1	288.0
77.5°	2264.6	2133.6	1981.8	1830.1	1786.5	1742.9	1426.2	1109.5	696.1	282.6	195.2
80°	1665.3	1596.5	1482.0	1367.4	1313.2	1259.0	992.6	726.2	448.5	170.7	125.7
82.5°	1094.0	1065.3	986.4	907.5	846.9	786.4	604.3	422.1	259.6	97.0	77.3
85°	627.9	611.6	546.8	482.0	430.5	379.1	282.4	185.7	116.8	47.8	41.3
87.5°	246.1	244.7	212.3	179.9	151.2	122.5	90.0	57.5	38.2	19.0	17.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9
2.5°	725.7	719.6	713.4	707.5	701.7	696.0	689.6	684.5	679.4	674.8	670.2
5°	755.1	742.4	729.7	717.8	705.9	694.6	683.5	673.8	664.1	656.0	647.9
7.5°	781.9	763.1	744.2	727.6	711.0	695.7	681.3	668.4	655.6	644.9	634.2
10°	801.9	779.0	756.0	736.4	716.7	697.8	682.4	668.8	655.2	644.5	633.8
12.5°	816.4	789.4	762.4	740.2	718.0	698.1	683.7	672.6	661.5	654.4	647.4
15°	825.2	794.1	763.0	737.3	711.5	689.5	678.0	672.7	667.4	668.4	669.3
17.5°	827.7	791.6	755.5	724.6	693.6	667.7	660.7	662.6	664.5	676.2	687.9
20°	828.5	784.8	741.0	702.7	664.3	634.2	632.3	641.4	650.5	670.7	691.0
22.5°	829.6	776.4	723.2	677.0	630.8	596.5	600.1	613.6	627.0	650.1	673.3
25°	833.8	768.1	702.4	648.3	594.2	559.0	568.9	584.4	600.0	620.7	641.5
27.5°	842.6	762.5	682.5	622.0	561.6	529.6	541.7	556.6	571.6	588.7	605.8
30°	854.7	760.0	665.1	600.1	535.1	508.2	517.7	529.5	541.5	555.6	569.8
32.5°	865.2	756.7	648.3	581.2	514.1	492.5	496.7	503.7	510.7	522.0	533.4
35°	872.8	750.7	628.6	562.6	496.6	478.5	476.8	478.7	480.7	489.3	497.9
37.5°	877.3	740.3	603.4	540.7	478.1	462.4	456.0	453.9	451.7	457.9	464.1
40°	880.2	726.1	572.0	514.6	457.3	443.0	433.2	428.4	423.5	428.0	432.5
42.5°	885.6	711.4	537.2	485.8	434.5	421.3	409.0	402.6	396.2	399.8	403.5
45°	895.2	697.7	500.3	455.3	410.2	396.8	384.9	378.7	372.5	375.5	378.6
47.5°	901.7	686.4	471.1	431.1	391.0	373.7	363.5	358.2	353.0	355.9	358.7
50°	897.5	674.1	450.8	415.0	379.1	356.5	344.6	339.9	335.3	339.8	344.3
52.5°	871.1	653.4	435.6	404.4	373.2	347.1	330.5	325.9	321.3	328.1	334.8
55°	816.7	618.9	421.1	396.7	372.3	348.0	323.0	315.7	308.5	318.1	327.6
57.5°	735.8	570.4	404.9	387.6	370.4	349.0	318.5	307.9	297.3	307.6	318.0
60°	627.3	507.3	387.3	373.7	360.2	346.0	314.3	300.6	286.8	295.9	304.9
62.5°	505.1	431.8	358.6	349.5	340.6	338.8	309.4	292.2	275.0	280.8	286.5
65°	*398.1*	*363.9*	*329.7*	*325.5*	*321.2*	*321.4*	*299.0*	*280.7*	*262.5*	*264.7*	*266.9*
67.5°	308.4	298.7	288.9	291.3	293.7	293.1	280.5	265.3	250.1	249.4	248.7
70°	233.6	236.4	239.1	250.1	261.1	261.1	257.0	246.2	235.4	233.0	230.6
72.5°	180.2	188.6	197.0	212.6	228.2	230.8	230.8	223.4	216.0	212.5	209.0
75°	139.9	147.5	155.1	172.6	190.1	202.2	201.2	195.5	189.7	186.4	183.0
77.5°	107.7	112.9	118.1	135.0	152.0	172.0	171.4	166.8	162.3	158.8	155.4
80°	80.8	82.9	85.0	99.4	113.8	137.6	137.5	133.7	129.8	127.0	124.1
82.5°	57.7	58.1	58.5	69.1	79.7	100.0	101.1	99.3	97.4	95.4	93.3
85°	34.9	34.7	34.5	42.3	50.0	65.1	66.6	64.6	62.6	60.3	58.0
87.5°	15.3	15.1	14.9	18.1	21.3	27.5	29.4	28.6	27.8	27.4	27.0
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: P1197963
CATALOG NUMBER: GPC-SB1B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9
2.5°	666.1	662.1	658.0	654.0	650.8	647.7	645.1	642.6	640.6	638.6	636.8
5°	640.7	633.6	627.1	620.5	615.5	610.5	607.0	603.5	601.0	598.5	596.6
7.5°	625.2	616.1	608.2	600.2	594.3	588.3	584.1	580.0	577.1	574.3	572.6
10°	624.1	614.4	605.4	596.5	589.4	582.2	577.6	572.9	570.2	567.5	566.0
12.5°	639.7	632.1	622.8	613.6	604.5	595.4	589.4	583.4	580.4	577.4	576.1
15°	667.4	665.4	657.3	649.3	636.4	623.4	614.3	605.1	600.9	596.7	595.1
17.5°	694.1	700.2	693.7	687.3	670.1	653.0	639.5	626.0	619.8	613.6	611.6
20°	704.0	717.0	714.0	710.9	691.3	671.8	655.2	638.7	630.8	622.8	620.3
22.5°	690.2	707.1	708.9	710.7	691.9	673.2	656.2	639.2	630.8	622.4	619.6
25°	658.1	674.8	681.0	687.1	671.8	656.5	641.3	626.2	619.0	611.7	609.1
27.5°	619.1	632.4	639.3	646.2	635.3	624.4	612.6	600.9	596.0	591.1	589.9
30°	580.9	591.9	597.5	603.2	594.8	586.5	578.1	569.7	567.2	564.7	564.7
32.5°	544.0	554.6	560.8	567.1	559.4	551.7	545.0	538.3	536.7	535.1	535.3
35°	508.4	518.9	526.4	533.9	528.4	523.0	516.8	510.6	508.1	505.7	505.2
37.5°	474.6	485.0	494.3	503.5	501.0	498.5	492.8	487.1	482.6	478.1	475.7
40°	442.6	452.7	463.3	474.0	474.6	475.2	470.4	465.5	458.9	452.4	448.0
42.5°	413.1	422.7	434.2	445.7	448.7	451.8	447.7	443.6	435.5	427.3	420.9
45°	387.7	396.8	408.7	420.6	425.1	429.5	425.8	422.1	412.8	403.5	395.9
47.5°	367.6	376.5	388.3	400.1	405.1	410.2	407.7	405.1	396.8	388.5	381.5
50°	352.7	361.1	371.6	382.1	388.7	395.2	395.0	394.9	388.3	381.7	375.2
52.5°	342.5	350.2	360.0	369.8	377.6	385.3	386.7	388.1	382.7	377.3	371.5
55°	335.9	344.2	352.8	361.4	369.6	377.8	379.7	381.7	377.0	372.2	367.2
57.5°	327.7	337.4	345.9	354.5	362.7	371.0	372.9	374.9	370.1	365.3	360.3
60°	316.1	327.3	335.9	344.6	352.9	361.1	363.3	365.4	360.8	356.1	351.0
62.5°	299.6	312.6	321.8	331.1	338.7	346.3	348.3	350.4	346.2	342.0	336.5
65°	*280.8*	*294.8*	*303.7*	*312.5*	*319.2*	*325.8*	*328.0*	*330.0*	*326.0*	*322.0*	*316.7*
67.5°	261.6	274.5	282.9	291.2	297.0	302.8	304.8	306.9	303.1	299.5	294.5
70°	241.9	253.2	260.5	267.7	272.9	278.1	280.1	282.1	279.1	276.0	271.3
72.5°	217.9	226.8	233.3	239.9	245.0	250.1	252.4	254.8	252.3	249.8	245.3
75°	189.6	196.2	202.1	208.1	212.7	217.4	219.8	222.3	221.0	219.8	216.0
77.5°	160.8	166.2	171.3	176.4	181.3	186.1	188.4	190.7	189.0	187.2	183.4
80°	128.6	133.0	137.3	141.6	145.3	149.0	152.1	155.1	154.4	153.6	148.5
82.5°	93.0	92.6	91.1	89.6	97.5	105.4	110.6	115.8	115.5	115.1	110.8
85°	56.1	54.2	50.0	45.9	53.3	60.7	67.1	73.5	73.0	72.5	69.1
87.5°	26.9	26.8	23.6	20.5	23.6	26.7	29.3	31.9	31.2	30.5	28.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1197963
CATALOG NUMBER: GPC-SB1B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9
2.5°	635.0	632.7	635.0	636.8	638.6	640.6	642.6	645.1	647.7	650.8	654.0
5°	594.7	592.9	594.7	596.6	598.5	601.0	603.5	607.0	610.5	615.5	620.5
7.5°	570.9	569.6	570.9	572.6	574.3	577.1	580.0	584.1	588.3	594.3	600.2
10°	564.6	564.0	564.6	566.0	567.5	570.2	572.9	577.6	582.2	589.4	596.5
12.5°	574.9	574.7	574.9	576.1	577.4	580.4	583.4	589.4	595.4	604.5	613.6
15°	593.5	593.4	593.5	595.1	596.7	600.9	605.1	614.3	623.4	636.4	649.3
17.5°	609.5	609.2	609.5	611.6	613.6	619.8	626.0	639.5	653.0	670.1	687.3
20°	617.7	616.9	617.7	620.3	622.8	630.8	638.7	655.2	671.8	691.3	710.9
22.5°	616.8	615.6	616.8	619.6	622.4	630.8	639.2	656.2	673.2	691.9	710.7
25°	606.5	604.9	606.5	609.1	611.7	619.0	626.2	641.3	656.5	671.8	687.1
27.5°	588.7	588.3	588.7	589.9	591.1	596.0	600.9	612.6	624.4	635.3	646.2
30°	564.7	565.1	564.7	564.7	564.7	567.2	569.7	578.1	586.5	594.8	603.2
32.5°	535.5	535.9	535.5	535.3	535.1	536.7	538.3	545.0	551.7	559.4	567.1
35°	504.6	504.4	504.6	505.2	505.7	508.1	510.6	516.8	523.0	528.4	533.9
37.5°	473.3	472.0	473.3	475.7	478.1	482.6	487.1	492.8	498.5	501.0	503.5
40°	443.6	441.0	443.6	448.0	452.4	458.9	465.5	470.4	475.2	474.6	474.0
42.5°	414.4	410.2	414.4	420.9	427.3	435.5	443.6	447.7	451.8	448.7	445.7
45°	388.3	383.5	388.3	395.9	403.5	412.8	422.1	425.8	429.5	425.1	420.6
47.5°	374.5	369.8	374.5	381.5	388.5	396.8	405.1	407.7	410.2	405.1	400.1
50°	368.7	364.2	368.7	375.2	381.7	388.3	394.9	395.0	395.2	388.7	382.1
52.5°	365.7	361.6	365.7	371.5	377.3	382.7	388.1	386.7	385.3	377.6	369.8
55°	362.1	358.3	362.1	367.2	372.2	377.0	381.7	379.7	377.8	369.6	361.4
57.5°	355.3	351.4	355.3	360.3	365.3	370.1	374.9	372.9	371.0	362.7	354.5
60°	345.8	341.8	345.8	351.0	356.1	360.8	365.4	363.3	361.1	352.9	344.6
62.5°	331.1	326.3	331.1	336.5	342.0	346.2	350.4	348.3	346.3	338.7	331.1
65°	*311.4*	*307.3*	*311.4*	*316.7*	*322.0*	*326.0*	*330.0*	*328.0*	*325.8*	*319.2*	*312.5*
67.5°	289.6	285.9	289.6	294.5	299.5	303.1	306.9	304.8	302.8	297.0	291.2
70°	266.6	262.3	266.6	271.3	276.0	279.1	282.1	280.1	278.1	272.9	267.7
72.5°	240.8	236.7	240.8	245.3	249.8	252.3	254.8	252.4	250.1	245.0	239.9
75°	212.3	208.3	212.3	216.0	219.8	221.0	222.3	219.8	217.4	212.7	208.1
77.5°	179.7	176.5	179.7	183.4	187.2	189.0	190.7	188.4	186.1	181.3	176.4
80°	143.4	137.5	143.4	148.5	153.6	154.4	155.1	152.1	149.0	145.3	141.6
82.5°	106.5	102.7	106.5	110.8	115.1	115.5	115.8	110.6	105.4	97.5	89.6
85°	65.7	62.3	65.7	69.1	72.5	73.0	73.5	67.1	60.7	53.3	45.9
87.5°	27.1	25.4	27.1	28.8	30.5	31.2	31.9	29.3	26.7	23.6	20.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1197963
CATALOG NUMBER: GPC-SB1B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9
2.5°	658.0	662.1	666.1	670.2	674.8	679.4	684.5	689.6	696.0	701.7	707.5
5°	627.1	633.6	640.7	647.9	656.0	664.1	673.8	683.5	694.6	705.9	717.8
7.5°	608.2	616.1	625.2	634.2	644.9	655.6	668.4	681.3	695.7	711.0	727.6
10°	605.4	614.4	624.1	633.8	644.5	655.2	668.8	682.4	697.8	716.7	736.4
12.5°	622.8	632.1	639.7	647.4	654.4	661.5	672.6	683.7	698.1	718.0	740.2
15°	657.3	665.4	667.4	669.3	668.4	667.4	672.7	678.0	689.5	711.5	737.3
17.5°	693.7	700.2	694.1	687.9	676.2	664.5	662.6	660.7	667.7	693.6	724.6
20°	714.0	717.0	704.0	691.0	670.7	650.5	641.4	632.3	634.2	664.3	702.7
22.5°	708.9	707.1	690.2	673.3	650.1	627.0	613.6	600.1	596.5	630.8	677.0
25°	681.0	674.8	658.1	641.5	620.7	600.0	584.4	568.9	559.0	594.2	648.3
27.5°	639.3	632.4	619.1	605.8	588.7	571.6	556.6	541.7	529.6	561.6	622.0
30°	597.5	591.9	580.9	569.8	555.6	541.5	529.5	517.7	508.2	535.1	600.1
32.5°	560.8	554.6	544.0	533.4	522.0	510.7	503.7	496.7	492.5	514.1	581.2
35°	526.4	518.9	508.4	497.9	489.3	480.7	478.7	476.8	478.5	496.6	562.6
37.5°	494.3	485.0	474.6	464.1	457.9	451.7	453.9	456.0	462.4	478.1	540.7
40°	463.3	452.7	442.6	432.5	428.0	423.5	428.4	433.2	443.0	457.3	514.6
42.5°	434.2	422.7	413.1	403.5	399.8	396.2	402.6	409.0	421.3	434.5	485.8
45°	408.7	396.8	387.7	378.6	375.5	372.5	378.7	384.9	396.8	410.2	455.3
47.5°	388.3	376.5	367.6	358.7	355.9	353.0	358.2	363.5	373.7	391.0	431.1
50°	371.6	361.1	352.7	344.3	339.8	335.3	339.9	344.6	356.5	379.1	415.0
52.5°	360.0	350.2	342.5	334.8	328.1	321.3	325.9	330.5	347.1	373.2	404.4
55°	352.8	344.2	335.9	327.6	318.1	308.5	315.7	323.0	348.0	372.3	396.7
57.5°	345.9	337.4	327.7	318.0	307.6	297.3	307.9	318.5	349.0	370.4	387.6
60°	335.9	327.3	316.1	304.9	295.9	286.8	300.6	314.3	346.0	360.2	373.7
62.5°	321.8	312.6	299.6	286.5	280.8	275.0	292.2	309.4	338.8	340.6	349.5
65°	*303.7*	*294.8*	*280.8*	*266.9*	*264.7*	*262.5*	*280.7*	*299.0*	*321.4*	*321.2*	*325.5*
67.5°	282.9	274.5	261.6	248.7	249.4	250.1	265.3	280.5	293.1	293.7	291.3
70°	260.5	253.2	241.9	230.6	233.0	235.4	246.2	257.0	261.1	261.1	250.1
72.5°	233.3	226.8	217.9	209.0	212.5	216.0	223.4	230.8	230.8	228.2	212.6
75°	202.1	196.2	189.6	183.0	186.4	189.7	195.5	201.2	202.2	190.1	172.6
77.5°	171.3	166.2	160.8	155.4	158.8	162.3	166.8	171.4	172.0	152.0	135.0
80°	137.3	133.0	128.6	124.1	127.0	129.8	133.7	137.5	137.6	113.8	99.4
82.5°	91.1	92.6	93.0	93.3	95.4	97.4	99.3	101.1	100.0	79.7	69.1
85°	50.0	54.2	56.1	58.0	60.3	62.6	64.6	66.6	65.1	50.0	42.3
87.5°	23.6	26.8	26.9	27.0	27.4	27.8	28.6	29.4	27.5	21.3	18.1
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: P1197963
CATALOG NUMBER: GPC-SB1B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	696.9	696.9	696.9	696.9	696.9	696.9	696.9
2.5°	713.4	719.6	725.7	731.8	737.9	743.7	749.4
5°	729.7	742.4	755.1	767.8	780.5	793.2	805.9
7.5°	744.2	763.1	781.9	801.3	820.7	841.6	862.6
10°	756.0	779.0	801.9	827.4	853.0	879.5	906.0
12.5°	762.4	789.4	816.4	845.4	874.4	903.5	932.6
15°	763.0	794.1	825.2	856.6	888.1	918.5	948.8
17.5°	755.5	791.6	827.7	862.0	896.3	927.1	957.9
20°	741.0	784.8	828.5	866.2	903.9	935.9	967.9
22.5°	723.2	776.4	829.6	871.9	914.2	946.9	979.6
25°	702.4	768.1	833.8	882.2	930.5	962.5	994.5
27.5°	682.5	762.5	842.6	898.2	953.7	984.3	1014.9
30°	665.1	760.0	854.7	919.0	983.2	1012.7	1042.3
32.5°	648.3	756.7	865.2	940.7	1016.2	1045.4	1074.6
35°	628.6	750.7	872.8	965.4	1058.0	1086.0	1113.9
37.5°	603.4	740.3	877.3	993.1	1108.8	1144.4	1180.1
40°	572.0	726.1	880.2	1028.2	1176.2	1228.1	1280.1
42.5°	537.2	711.4	885.6	1074.2	1262.7	1337.7	1412.8
45°	500.3	697.7	895.2	1134.7	1374.1	1475.4	1576.6
47.5°	471.1	686.4	901.7	1199.1	1496.5	1639.0	1781.4
50°	450.8	674.1	897.5	1258.9	1620.3	1835.1	2049.9
52.5°	435.6	653.4	871.1	1297.7	1724.3	2041.2	2358.1
55°	421.1	618.9	816.7	1289.2	1761.6	2223.9	2686.2
57.5°	404.9	570.4	735.8	1229.0	1722.1	2353.4	2984.7
60°	387.3	507.3	627.3	1116.9	1606.4	2385.8	3165.0
62.5°	358.6	431.8	505.1	965.3	1425.6	2249.5	3073.4
65°	*329.7*	*363.9*	*398.1*	*810.7*	*1223.3*	*2056.7*	*2890.1*
67.5°	288.9	298.7	308.4	659.2	1010.1	1827.3	2644.5
70°	239.1	236.4	233.6	519.1	804.5	1577.0	2349.4
72.5°	197.0	188.6	180.2	396.8	613.5	1305.6	1997.8
75°	155.1	147.5	139.9	288.0	436.1	994.5	1552.9
77.5°	118.1	112.9	107.7	195.2	282.6	696.1	1109.5
80°	85.0	82.9	80.8	125.7	170.7	448.5	726.2
82.5°	58.5	58.1	57.7	77.3	97.0	259.6	422.1
85°	34.5	34.7	34.9	41.3	47.8	116.8	185.7
87.5°	14.9	15.1	15.3	17.1	19.0	38.2	57.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0


HS
SS

0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

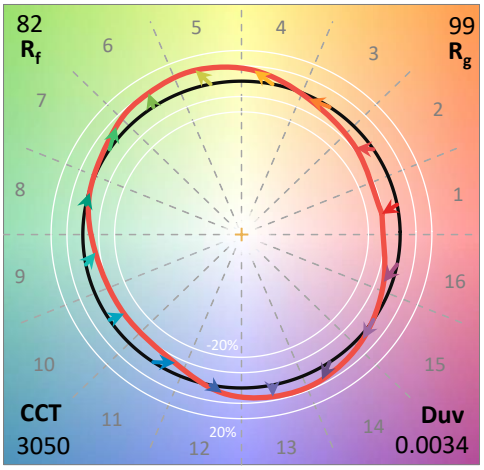
Test Information

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
Rf:	81.5
Rg:	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

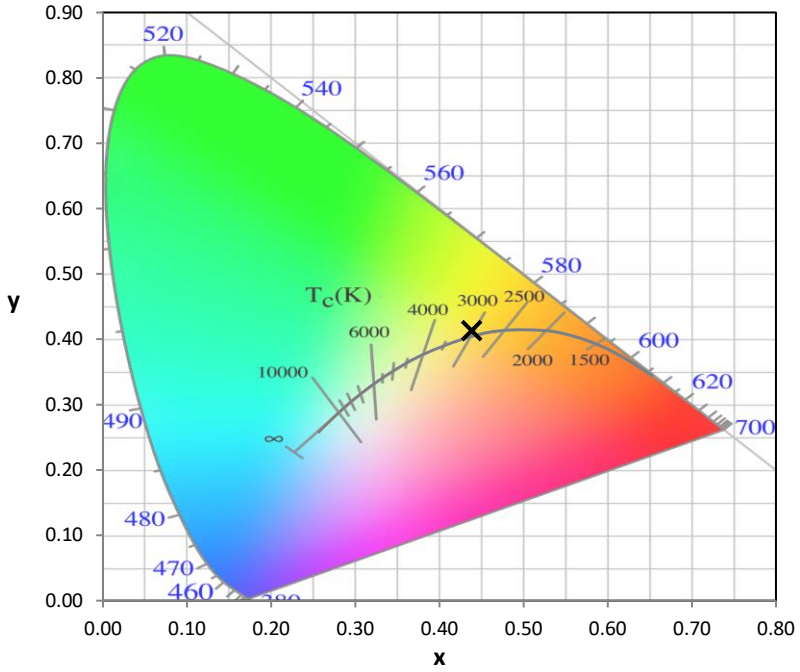
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

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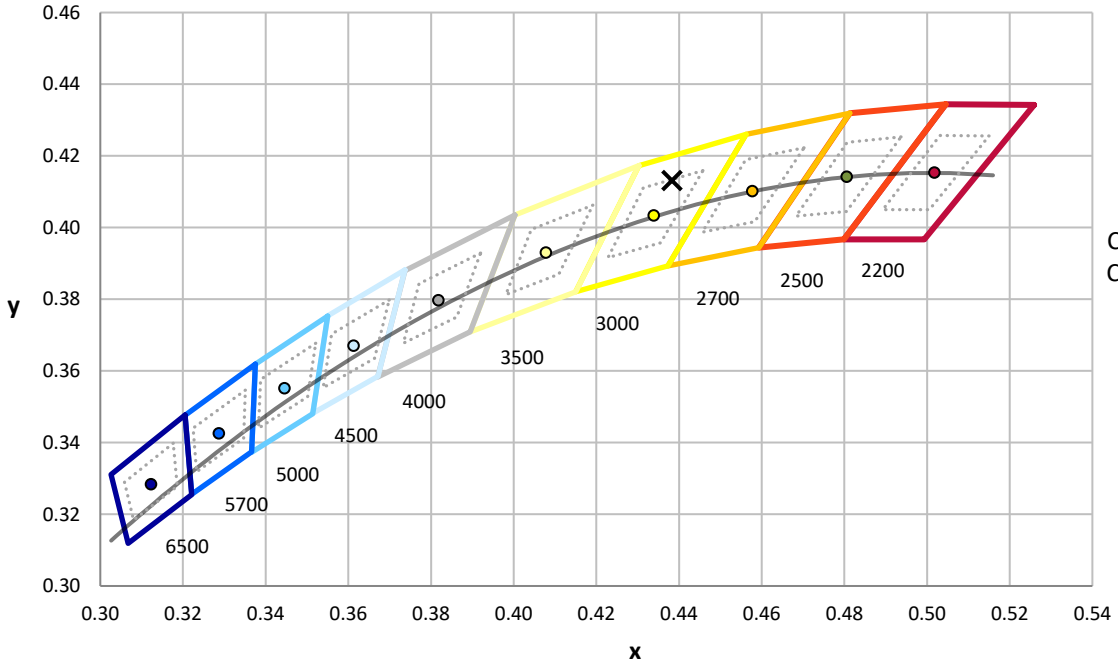
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	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

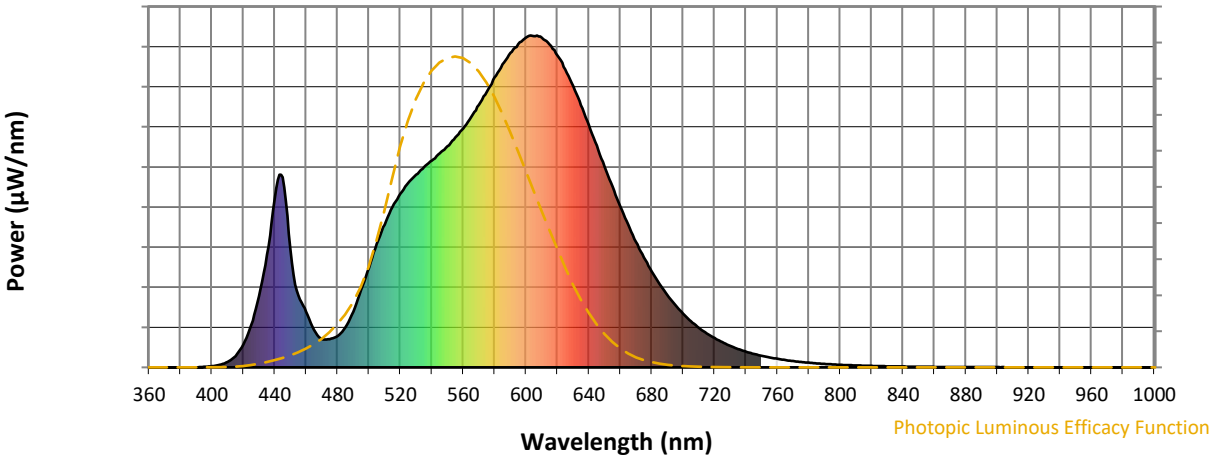


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

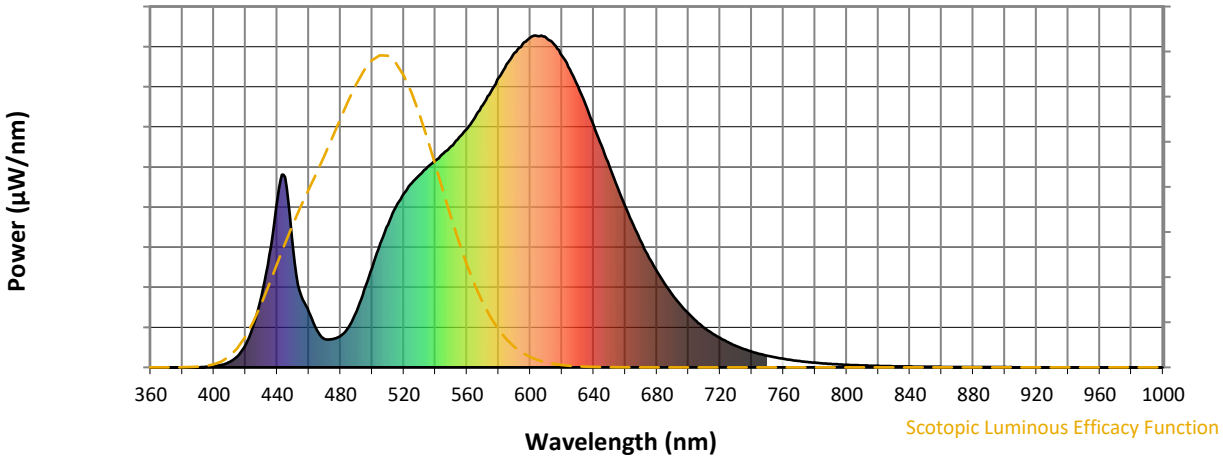


Photopic Lumens: NR

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	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

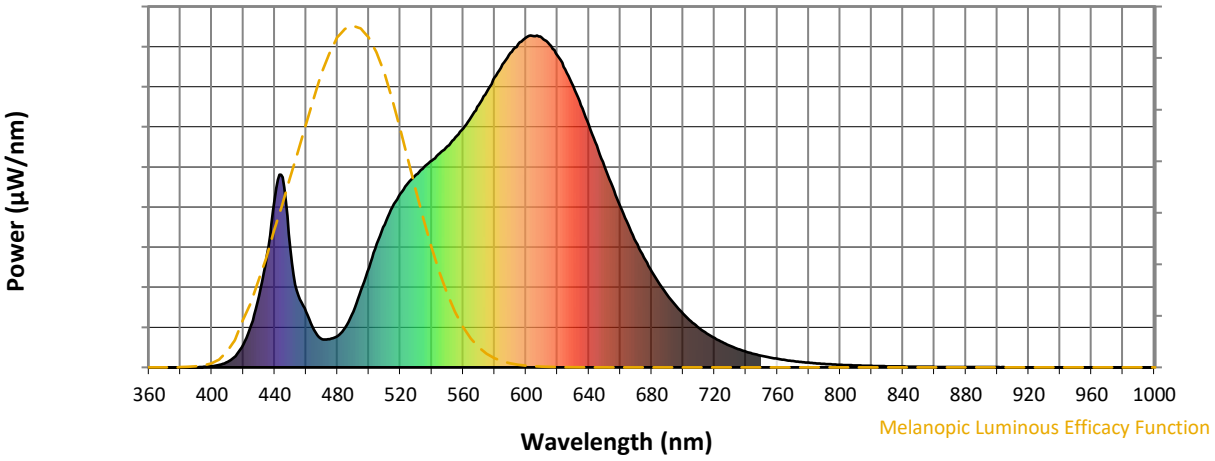


Scotopic Lumens: NR **S/P: 1.27**

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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.32**

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			

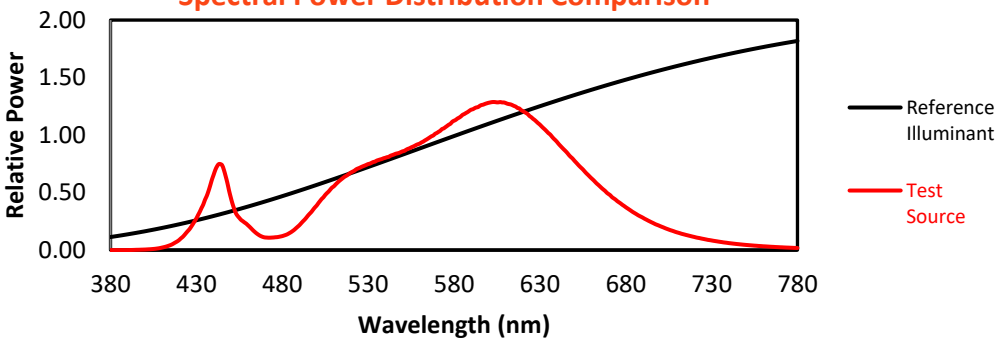
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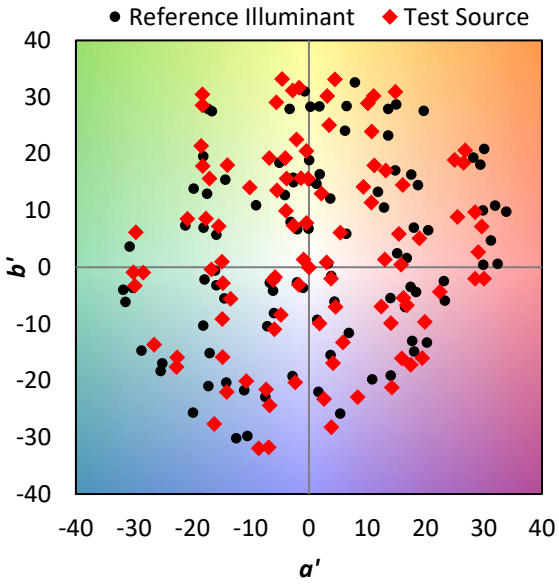
Summary

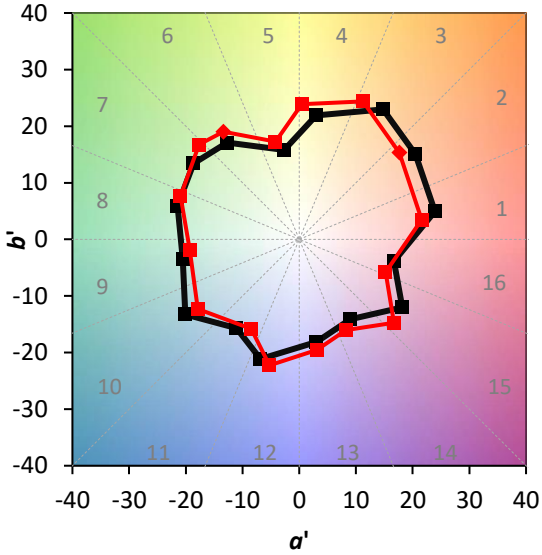
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

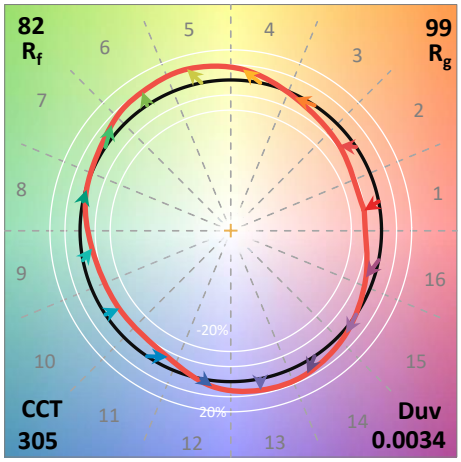
Spectral Power Distribution Comparison

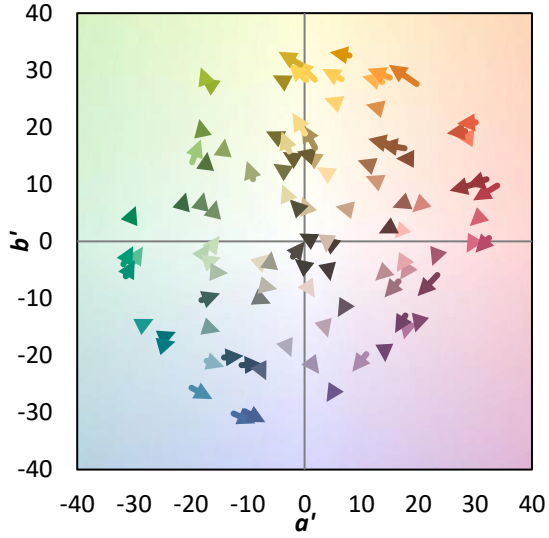


Color Vector Graphics







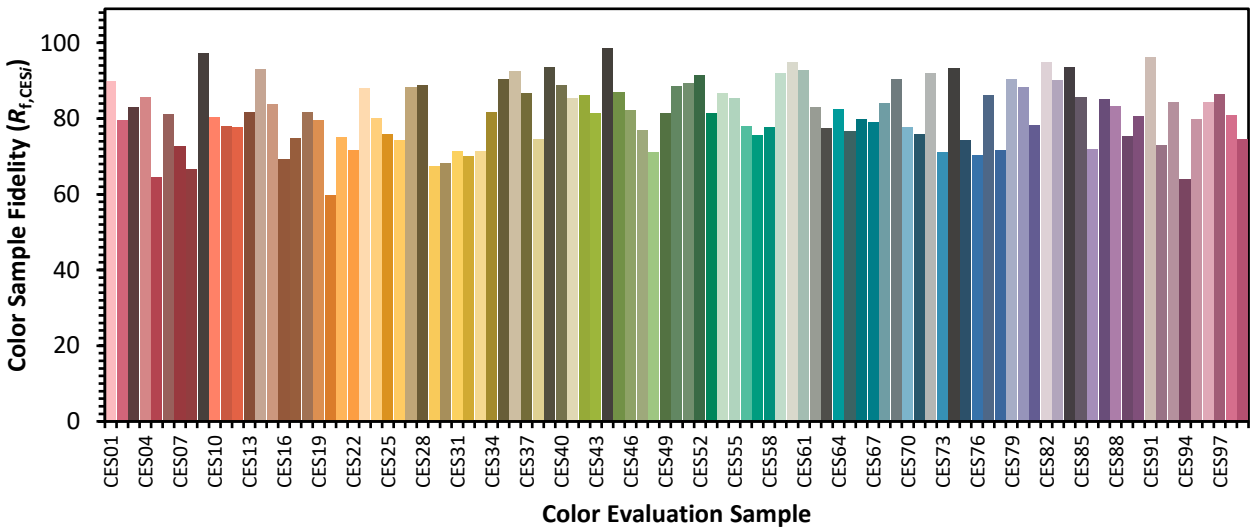


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Individual Sample Fidelity Index ($R_{f,i}$)

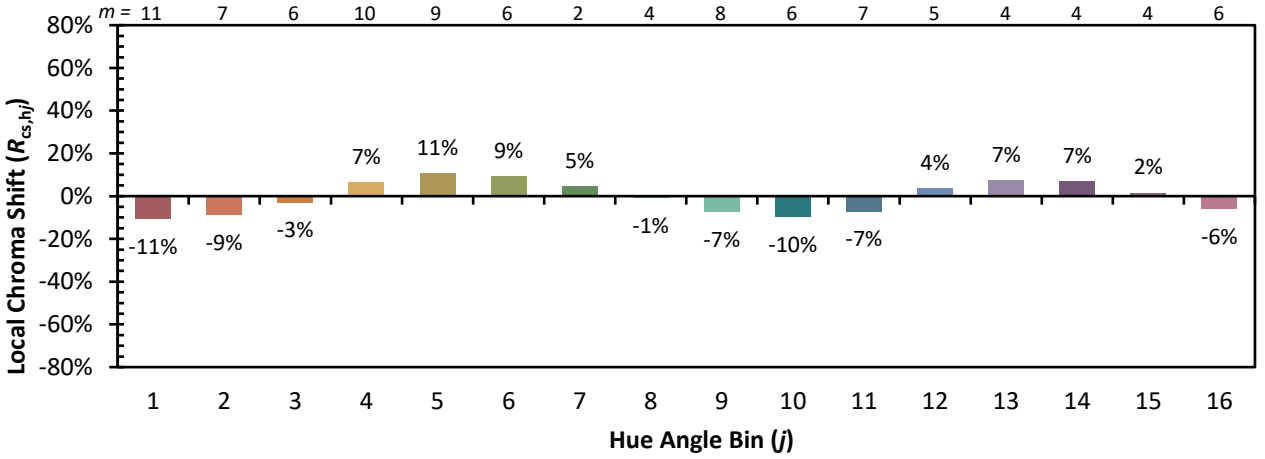
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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	

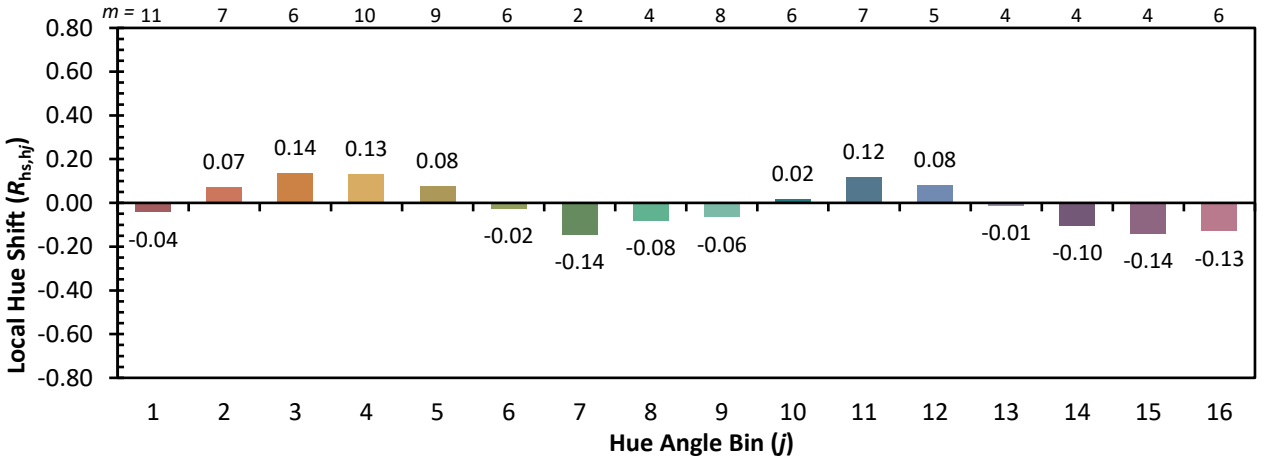


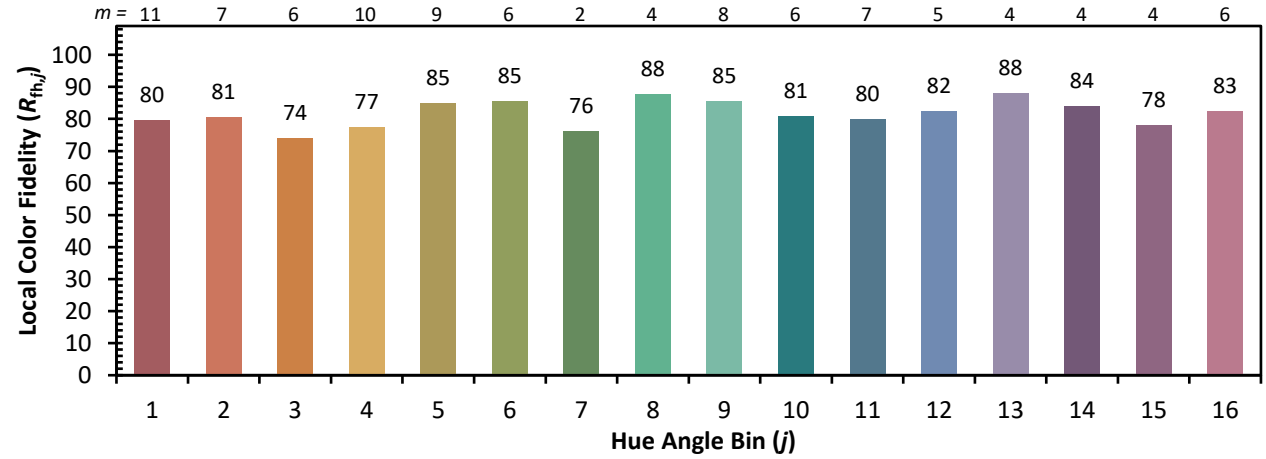
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Color Rendition by Hue-Angle Bin



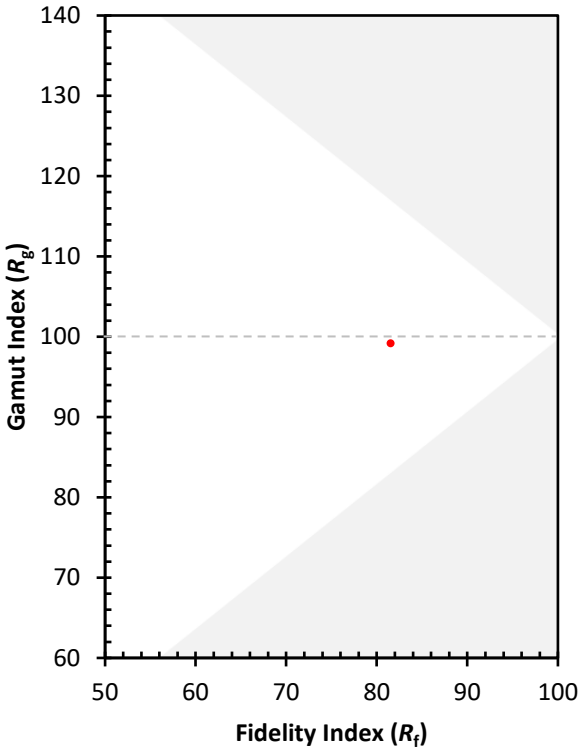


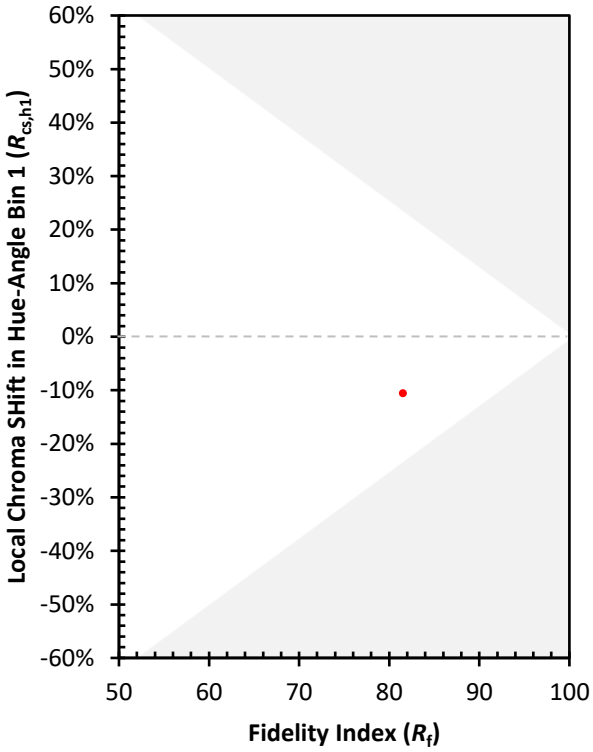


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Measure Comparisons





(END OF REPORT)