

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO COMMERCIAL

Report Number: P775890

Luminaire Tested: HCDJBL5510CSD-HCD8TSQC-1000lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2310613A001)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL510CSD-HCD8TSQC-1000lm-2700K
Description: 8 INCH SQUARE MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

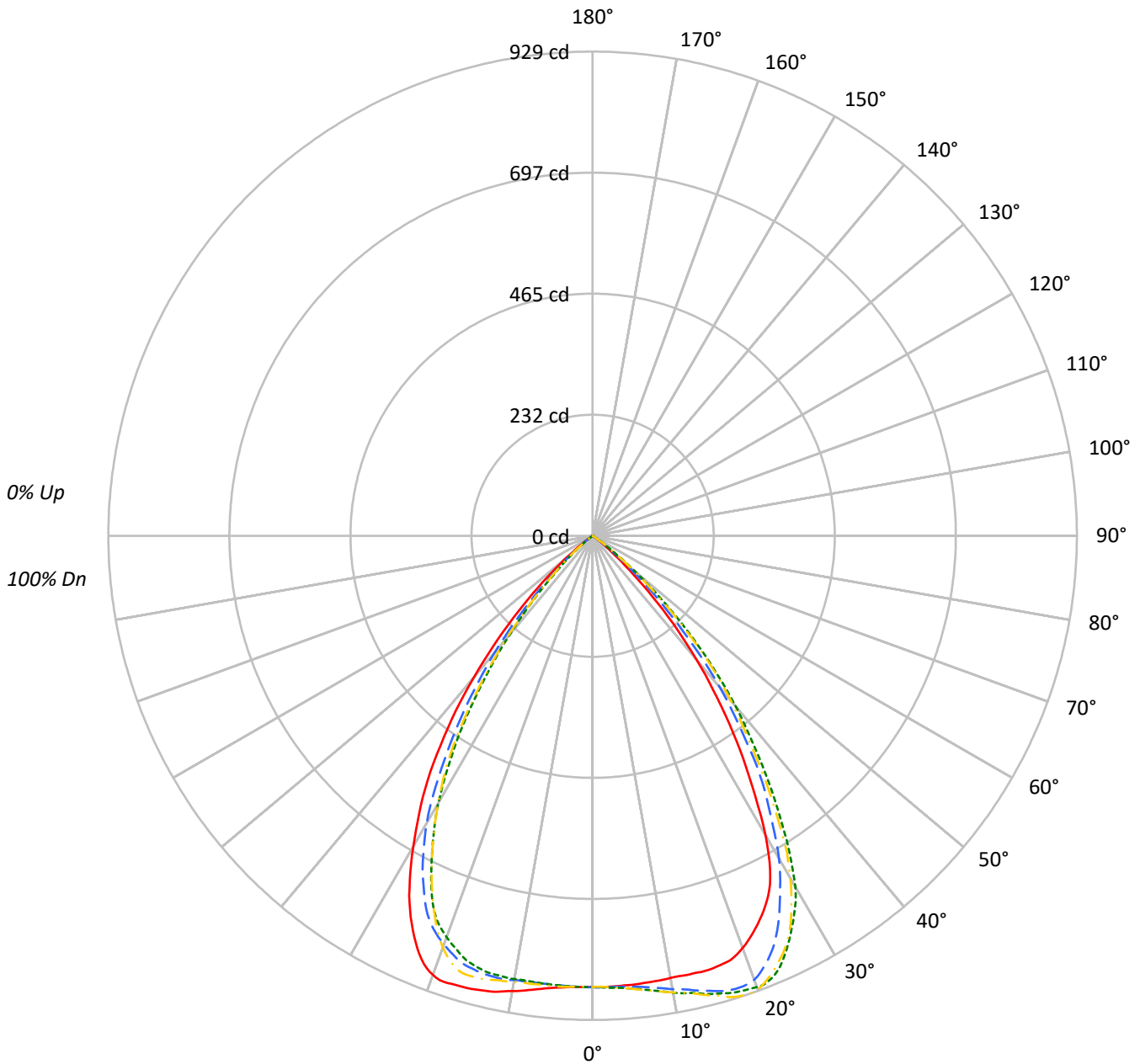
Lumens per Lamp: N/A
Luminaire Lumens: 1164.0 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.17 / 1.07
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 10
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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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100															
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93				93															
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85				85															
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78				78															
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	74	72				72															
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66				66															
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61				61															
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56				56															
8	76	65	59	54	74	65	59	54	64	58	54	62	57	54	61	57	53	52				52															
9	71	61	55	50	70	61	54	50	60	54	50	59	54	50	58	53	50	48				48															
10	68	57	51	47	67	57	51	47	56	50	47	55	50	46	54	50	46	45				45															

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	20763	20763	20763	20763
5°	20816	20996	20960	20818
10°	20979	21670	21602	21030
15°	21401	22583	22349	21264
20°	21475	23519	22871	20904
25°	20735	23243	21721	19383
30°	18368	21538	19049	16386
35°	14098	17572	15579	12259
40°	9688	13356	11093	7719
45°	5097	8674	6351	3615
50°	1709	3917	2440	1171
55°	121	849	268	29
60°	19	24	19	14
65°	11	11	11	6
70°	7	7	7	7
75°	9	9	9	0
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 112.5°

Vertical Angle: 45°

Luminance: 8766 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	7.1
10°-20°	250.0	21.5
20°-30°	364.6	31.3
30°-40°	314.1	27.0
40°-50°	138.1	11.9
50°-60°	13.8	1.2
60°-70°	0.2	0.0
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°-30°	697.7	59.9
0°-40°	1011.8	86.9
0°-60°	1163.7	100.0
0°-90°	1164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1164.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	866	866	866	866	866	
5°	865	872	871	865	865	82
15°	862	910	900	857	862	243
25°	784	878	821	733	784	356
35°	482	600	532	419	482	299
45°	150	256	187	107	150	120
55°	3	20	6	1	3	10
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	865.9	865.9	865.9	865.9	865.9	865.9	865.9	865.9	865.9	865.9	865.9
0.5°	866.1	866.5	866.7	866.0	866.3	865.8	865.4	865.6	865.9	866.2	866.2
1°	866.1	866.6	866.8	866.5	866.6	866.1	865.5	865.7	866.0	866.2	866.2
1.5°	866.1	866.5	866.7	866.8	867.2	866.6	865.8	866.0	866.0	866.1	866.0
2°	865.9	866.2	866.6	867.1	867.8	867.3	866.6	866.5	866.3	866.1	865.9
2.5°	865.9	866.2	866.7	867.1	868.3	868.3	867.3	867.1	866.9	866.2	865.6
3°	865.6	866.1	866.8	867.4	868.7	868.6	868.3	868.2	867.3	866.3	865.4
3.5°	865.4	865.9	867.1	868.0	869.2	869.3	869.1	869.0	867.9	866.6	865.2
4°	865.1	865.6	867.4	868.7	870.1	870.3	870.1	870.2	868.8	866.8	865.0
4.5°	865.0	865.6	867.9	869.6	871.1	871.5	871.3	871.2	869.8	867.2	864.6
5°	864.8	865.6	868.5	870.8	872.3	872.6	872.7	872.7	870.8	867.6	864.6
5.5°	864.6	866.0	869.3	872.2	873.5	873.9	874.0	874.4	872.1	868.1	864.5
6°	864.3	866.2	870.2	873.5	874.9	875.3	875.6	876.0	873.4	868.8	864.5
6.5°	863.9	866.5	871.4	875.1	876.5	876.7	877.3	877.7	875.0	869.8	864.6
7°	863.5	866.8	872.7	876.9	878.2	878.2	878.9	879.6	876.7	870.7	864.6
7.5°	863.2	867.2	874.2	879.0	879.9	879.9	880.4	881.3	878.4	871.8	864.6
8°	863.1	867.8	875.7	881.1	881.7	881.7	882.4	883.5	880.3	872.8	864.7
8.5°	862.9	868.8	877.4	883.3	883.6	883.8	884.3	885.5	882.2	873.8	864.9
9°	862.7	869.9	879.4	885.8	885.8	885.8	886.1	887.7	884.0	874.9	865.0
9.5°	862.2	870.8	881.6	888.1	887.7	887.9	887.9	889.7	885.7	875.9	865.0
10°	861.6	871.7	883.4	890.6	890.0	890.2	889.9	891.4	887.2	876.9	865.5
10.5°	861.2	872.4	885.0	892.8	892.2	892.4	891.8	893.0	888.7	878.3	866.7
11°	861.2	873.3	886.5	894.5	894.3	894.4	893.5	894.5	890.3	880.3	867.7
11.5°	861.6	874.6	888.1	896.1	895.9	896.1	895.1	896.2	892.7	882.1	868.0
12°	861.8	876.3	890.3	897.9	897.1	897.9	897.1	898.8	894.6	883.8	867.7
12.5°	861.8	878.0	893.0	900.0	898.8	899.9	899.6	901.2	896.1	884.1	867.2
13°	861.7	879.0	895.7	902.5	900.9	902.2	902.6	903.1	896.8	884.6	867.1
13.5°	861.9	879.6	898.2	904.8	903.6	904.8	905.9	904.2	897.3	885.6	866.8
14°	862.3	880.1	900.1	906.4	906.2	907.7	908.6	904.9	898.2	886.6	866.1
14.5°	862.4	880.8	902.1	907.3	908.2	909.9	910.8	906.0	899.4	887.3	864.9
15°	862.1	881.3	904.4	908.1	909.7	911.4	913.2	907.7	900.3	887.8	863.6
15.5°	861.3	881.3	906.7	909.7	911.3	912.5	916.4	909.1	900.5	887.9	862.1
16°	860.5	880.5	908.8	911.1	913.3	914.1	920.0	910.0	900.6	888.3	860.8
16.5°	859.6	879.3	910.2	911.7	915.4	916.0	923.2	910.3	900.8	888.6	859.3
17°	858.6	877.9	911.1	911.7	917.0	917.3	925.6	909.9	901.2	888.9	857.2
17.5°	857.5	876.7	911.6	911.4	918.0	917.9	927.1	909.5	901.6	888.5	854.5
18°	855.9	875.4	911.6	911.0	918.7	917.8	927.9	909.2	902.2	886.7	850.8
18.5°	853.2	874.1	911.2	910.5	919.4	917.8	928.4	908.7	902.4	883.8	846.7
19°	849.7	872.4	910.5	910.1	920.2	918.2	928.8	908.1	901.6	879.3	842.8
19.5°	845.8	870.2	909.2	909.6	920.9	918.9	928.2	906.5	899.5	874.5	838.7
20°	841.6	867.3	906.6	908.8	921.7	919.6	926.6	903.9	896.3	869.2	834.3
20.5°	837.0	864.1	902.7	907.3	922.0	919.8	923.4	900.9	892.9	863.4	829.7
21°	832.0	860.7	897.6	904.8	921.3	919.0	919.0	897.3	888.3	856.6	824.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	815.8	848.2	879.7	894.3	912.1	915.1	904.6	886.4	868.4	833.9	807.9
23°	809.8	842.5	872.9	890.6	907.3	912.6	899.1	881.8	860.1	825.3	801.0
23.5°	803.6	835.9	865.2	885.9	901.5	909.4	893.1	876.7	851.2	816.3	793.3
24°	797.3	828.4	856.8	880.9	894.4	905.0	886.9	870.7	841.3	806.7	784.4
24.5°	790.7	819.8	847.3	875.2	886.5	899.7	880.4	863.8	831.4	796.5	774.6
25°	783.7	810.6	837.3	868.3	878.5	892.9	873.1	855.6	821.0	785.4	763.4
25.5°	776.2	800.8	826.3	860.4	870.0	885.2	865.2	846.5	810.7	774.4	752.3
26°	768.3	790.4	814.9	851.2	861.2	876.4	856.2	836.3	799.2	762.0	741.1
26.5°	759.3	779.5	802.9	841.0	851.8	866.4	846.7	825.0	787.4	749.5	729.9
27°	749.4	767.4	790.6	829.3	842.6	855.4	835.9	812.5	775.3	737.1	718.7
27.5°	737.7	754.7	778.5	816.2	833.3	844.1	824.7	799.6	761.0	724.7	705.4
28°	725.0	741.4	766.3	801.7	823.6	830.9	812.2	786.1	746.7	712.3	692.3
28.5°	711.1	727.7	754.4	786.4	813.6	817.3	799.0	773.3	732.4	699.1	679.0
29°	696.1	714.2	741.7	771.1	803.0	803.2	785.9	758.7	718.1	685.5	665.1
29.5°	680.0	700.2	728.7	755.8	791.2	788.5	772.9	744.0	703.7	671.8	651.1
30°	663.4	686.4	715.0	740.2	777.9	772.7	758.1	729.3	688.0	657.1	636.5
30.5°	645.1	672.8	700.0	725.0	761.2	756.9	743.3	714.7	672.6	642.4	621.4
31°	626.4	659.5	684.0	709.7	744.5	741.1	728.6	697.9	657.8	626.9	604.5
31.5°	607.3	645.4	667.7	694.6	727.8	725.3	713.8	680.9	642.5	611.4	586.7
32°	589.0	629.6	651.5	679.9	711.1	709.4	695.3	663.4	627.4	595.8	568.6
32.5°	570.3	613.0	635.6	664.6	693.0	694.3	676.3	646.3	612.7	580.4	550.9
33°	552.4	595.5	620.5	648.7	673.9	678.0	656.7	629.3	597.9	564.6	532.4
33.5°	534.5	576.9	605.6	632.5	655.1	661.7	637.3	611.5	582.1	548.2	514.7
34°	517.0	557.5	591.0	616.2	636.3	643.3	619.1	593.6	566.2	531.1	496.6
34.5°	499.4	539.1	575.4	599.1	618.1	623.7	600.8	576.0	549.7	512.8	479.3
35°	481.6	520.8	558.8	581.8	600.3	603.2	582.6	559.2	532.2	494.4	461.4
35.5°	464.7	503.0	541.3	564.6	582.5	583.0	563.5	541.8	513.9	476.0	444.4
36°	446.2	485.6	522.6	547.1	564.5	562.3	544.8	524.9	495.8	457.9	426.7
36.5°	427.7	467.9	502.9	529.3	546.0	542.2	525.4	507.4	478.1	441.0	409.3
37°	409.9	449.8	484.2	511.1	527.9	522.4	507.0	490.4	460.9	424.3	391.7
37.5°	392.5	432.5	466.4	494.1	510.1	504.4	489.5	473.8	444.3	407.4	374.3
38°	375.7	415.4	449.1	476.7	492.6	487.7	473.3	457.9	426.8	390.3	357.5
38.5°	360.2	398.0	432.5	459.9	475.6	471.8	457.8	440.8	408.9	373.1	341.1
39°	343.4	380.2	415.4	442.7	459.4	456.6	442.8	423.6	390.8	356.1	325.1
39.5°	326.5	362.8	397.9	424.1	443.3	441.4	427.5	405.2	372.3	338.3	308.8
40°	309.5	345.7	379.7	404.0	426.7	426.6	412.0	387.4	354.4	320.4	292.2
40.5°	292.6	328.7	361.9	384.5	409.8	410.8	395.9	369.4	335.9	302.1	275.3
41°	275.7	311.6	343.3	366.3	392.2	394.8	379.5	352.4	318.6	284.1	258.3
41.5°	259.5	294.5	324.7	349.1	374.6	378.9	363.1	335.5	301.6	266.6	241.3
42°	243.7	277.5	306.0	332.0	356.7	362.6	346.2	319.1	284.6	249.1	224.2
42.5°	228.2	260.2	287.4	314.9	339.2	346.2	329.3	302.3	267.8	232.4	207.5
43°	212.0	242.8	268.8	297.9	322.3	329.0	311.9	285.6	250.8	216.3	191.3
43.5°	196.1	225.0	251.6	280.7	305.1	311.5	294.4	268.7	234.0	200.5	175.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	150.3	174.9	202.4	231.1	255.8	258.5	243.6	220.3	187.3	155.3	131.4
45.5°	135.9	159.8	187.7	215.2	239.1	241.0	226.7	204.8	172.6	141.5	118.4
46°	122.0	145.7	172.9	199.6	222.3	223.7	210.2	189.4	159.0	128.5	106.4
46.5°	108.8	132.0	158.6	183.9	206.3	206.8	194.1	174.0	145.2	115.9	96.7
47°	96.4	119.0	144.8	168.9	190.5	190.0	178.2	159.1	132.3	104.8	87.0
47.5°	84.9	107.0	131.5	154.1	175.2	174.1	162.4	144.6	119.5	95.3	77.2
48°	74.6	96.0	118.4	140.3	160.1	159.0	147.8	130.9	107.6	85.7	67.5
48.5°	65.8	85.7	106.3	127.2	144.9	144.3	133.5	117.6	97.0	76.2	60.0
49°	58.2	76.2	95.2	114.7	130.4	130.1	119.8	106.4	86.5	66.7	53.2
49.5°	51.6	67.5	84.7	102.4	116.4	116.7	108.4	95.2	75.9	58.7	47.1
50°	45.8	59.6	74.9	90.3	105.0	105.4	96.9	84.0	65.4	51.6	41.4
50.5°	40.3	52.2	65.9	79.0	93.6	94.2	85.5	72.8	56.8	44.8	35.7
51°	35.1	45.3	57.4	68.5	82.3	82.9	74.1	61.6	49.1	38.5	30.4
51.5°	30.5	39.4	49.8	59.1	70.9	71.7	62.6	53.2	42.2	32.5	25.7
52°	25.9	33.6	42.7	50.8	59.7	60.4	53.8	45.4	35.7	27.0	21.0
52.5°	21.3	28.8	36.2	43.1	51.2	51.3	45.7	38.5	29.6	22.1	17.0
53°	16.7	24.0	31.0	36.3	43.4	43.4	38.5	32.1	24.2	17.9	13.1
53.5°	12.1	19.1	25.9	31.0	36.5	36.3	31.9	26.3	19.7	13.8	9.1
54°	7.1	14.3	20.8	25.8	30.0	29.7	26.1	21.4	15.3	9.7	5.2
54.5°	3.6	9.2	15.7	20.5	24.2	24.2	21.1	17.4	10.8	5.6	1.4
55°	2.9	4.9	10.6	15.3	20.3	19.7	17.1	13.3	6.4	1.6	1.0
55.5°	2.2	4.1	5.8	10.0	16.5	15.3	13.1	9.3	2.1	1.1	0.8
56°	1.5	3.2	2.6	5.2	12.6	10.9	9.2	5.3	1.2	0.9	0.7
56.5°	0.9	2.4	2.0	2.2	8.8	6.4	5.2	1.3	1.0	0.8	0.6
57°	0.8	1.6	1.6	1.7	4.9	2.0	1.3	1.0	0.8	0.7	0.5
57.5°	0.7	0.8	1.2	1.4	1.1	1.1	1.0	0.9	0.7	0.6	0.5
58°	0.6	0.7	0.7	1.0	0.9	0.9	0.8	0.8	0.6	0.5	0.4
58.5°	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.5	0.4
59°	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.4
59.5°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.4	0.3
60°	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.3
60.5°	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.3	0.3
61°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3
61.5°	0.3	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3
62°	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.2
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2
63°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
63.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
64°	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2
64.5°	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
66°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1



TEST NUMBER: P775890

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQC-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1
68°	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1
68.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1
69°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
69.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
71°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
71.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
73°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
73.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
74°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
74.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
75.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	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
83°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	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
85.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87°	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
88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775890
CATALOG NUMBER: HCDJBL510CSD-HCD8TSQC-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775890

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQC-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	865.9	865.9	865.9	865.9	865.9	865.9
0.5°	865.7	866.3	865.7	865.4	865.6	866.1
1°	865.7	866.2	865.9	865.5	865.9	866.1
1.5°	865.6	866.2	866.0	865.7	865.9	866.1
2°	865.4	866.1	866.1	866.0	866.0	865.9
2.5°	865.0	865.9	866.3	866.3	866.1	865.9
3°	864.7	865.7	866.5	866.8	866.3	865.6
3.5°	864.3	865.6	866.8	866.9	866.3	865.4
4°	863.9	865.5	866.9	867.3	866.3	865.1
4.5°	863.4	865.1	867.1	867.4	866.2	865.0
5°	863.0	864.9	867.1	867.4	866.1	864.8
5.5°	862.7	864.6	866.9	867.4	865.7	864.6
6°	862.3	864.3	866.8	867.2	865.6	864.3
6.5°	861.6	864.0	866.8	867.2	865.4	863.9
7°	861.1	863.8	866.9	867.3	865.2	863.5
7.5°	860.4	863.5	867.3	867.7	865.1	863.2
8°	859.7	863.4	867.3	867.9	865.2	863.1
8.5°	858.9	863.1	867.2	867.9	865.1	862.9
9°	857.9	862.8	867.3	867.9	864.7	862.7
9.5°	857.1	863.1	868.1	868.1	864.4	862.2
10°	856.8	863.7	869.2	869.1	864.4	861.6
10.5°	857.0	864.1	870.2	870.3	864.9	861.2
11°	856.8	863.9	870.9	871.1	865.6	861.2
11.5°	856.2	863.3	871.2	871.6	865.7	861.6
12°	855.4	862.6	871.7	871.8	865.3	861.8
12.5°	855.3	862.3	872.9	873.0	864.9	861.8
13°	855.3	862.1	874.5	874.5	864.7	861.7
13.5°	855.1	861.6	875.9	875.6	864.7	861.9
14°	854.5	860.4	876.4	876.3	864.1	862.3
14.5°	853.4	858.5	876.7	876.5	862.9	862.4
15°	852.4	856.6	876.8	876.7	861.3	862.1
15.5°	851.2	854.7	876.8	876.8	859.9	861.3
16°	850.0	852.6	876.3	876.7	858.3	860.5
16.5°	848.8	850.0	874.7	875.8	856.7	859.6
17°	846.5	846.4	871.7	873.6	854.5	858.6
17.5°	843.2	842.1	867.3	870.2	851.5	857.5
18°	839.1	837.5	861.8	865.7	848.0	855.9
18.5°	834.3	833.2	855.7	860.6	844.0	853.2
19°	829.5	828.7	848.8	854.7	840.0	849.7
19.5°	824.4	824.1	841.1	848.1	836.1	845.8
20°	818.8	819.2	832.6	840.4	832.1	841.6
20.5°	813.1	814.3	823.3	832.1	827.9	837.0
21°	806.8	808.8	813.1	822.6	823.6	832.0



TEST NUMBER: P775890

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQC-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	787.7	788.4	780.5	791.3	808.4	815.8
23°	780.8	779.3	768.5	779.7	802.0	809.8
23.5°	773.7	769.1	756.6	767.7	794.8	803.6
24°	766.3	757.7	744.2	755.5	786.1	797.3
24.5°	759.1	745.7	731.5	742.9	776.1	790.7
25°	749.8	732.6	718.3	730.2	764.7	783.7
25.5°	740.5	719.2	705.9	717.4	752.6	776.2
26°	731.3	705.7	693.4	704.1	739.7	768.3
26.5°	721.9	692.0	679.6	690.9	726.4	759.3
27°	708.8	677.9	666.1	677.4	712.6	749.4
27.5°	694.6	664.0	652.7	663.5	698.7	737.7
28°	678.3	650.3	638.7	649.3	684.7	725.0
28.5°	662.1	636.5	624.3	635.5	670.7	711.1
29°	645.6	622.2	609.5	621.6	656.4	696.1
29.5°	629.1	607.9	594.8	607.2	641.0	680.0
30°	611.8	591.8	580.6	592.9	625.5	663.4
30.5°	594.1	575.2	566.3	578.0	609.2	645.1
31°	576.3	558.2	551.9	563.8	592.4	626.4
31.5°	558.4	541.2	537.5	549.5	574.7	607.3
32°	540.6	523.0	522.6	534.7	557.0	589.0
32.5°	522.7	505.7	507.7	518.9	539.0	570.3
33°	504.8	488.7	491.6	502.4	521.0	552.4
33.5°	487.8	472.0	473.8	485.4	502.9	534.5
34°	470.6	455.0	455.1	467.6	486.7	517.0
34.5°	453.2	437.6	435.8	449.2	469.6	499.4
35°	435.1	418.8	417.9	430.6	452.3	481.6
35.5°	416.9	400.3	399.8	412.2	434.2	464.7
36°	399.3	381.9	382.5	394.3	416.3	446.2
36.5°	381.9	363.3	364.6	376.7	396.9	427.7
37°	365.6	346.7	347.0	359.7	379.1	409.9
37.5°	349.8	330.1	329.5	342.2	361.8	392.5
38°	333.4	313.4	311.9	324.7	345.3	375.7
38.5°	316.3	296.8	294.4	307.2	328.7	360.2
39°	298.5	280.2	276.8	289.7	312.1	343.4
39.5°	281.7	263.4	260.1	272.2	295.5	326.5
40°	265.1	246.6	243.4	255.9	278.9	309.5
40.5°	249.7	231.1	226.7	239.6	262.1	292.6
41°	234.2	215.9	211.5	223.5	246.5	275.7
41.5°	219.1	200.7	195.6	207.7	230.4	259.5
42°	203.3	186.1	181.5	192.5	215.1	243.7
42.5°	187.9	171.8	167.5	177.8	199.9	228.2
43°	172.7	157.6	154.4	163.9	185.4	212.0
43.5°	158.1	143.6	141.9	150.7	170.7	196.1



TEST NUMBER: P775890

CATALOG NUMBER: HCDJBL510CSD-HCD8TSQC-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	117.4	106.6	108.1	114.8	128.5	150.3
45.5°	106.4	95.7	98.2	104.4	115.8	135.9
46°	95.5	85.5	88.9	94.5	103.8	122.0
46.5°	84.6	76.2	79.9	85.2	92.3	108.8
47°	73.7	67.8	71.8	76.6	81.9	96.4
47.5°	62.8	60.1	64.0	68.2	72.5	84.9
48°	56.0	53.2	56.8	60.6	64.1	74.6
48.5°	50.1	47.1	50.0	53.5	56.7	65.8
49°	44.8	41.6	43.5	46.9	50.2	58.2
49.5°	39.7	36.3	37.5	40.8	44.2	51.6
50°	34.9	31.4	32.5	34.8	38.8	45.8
50.5°	30.0	26.6	27.5	29.9	33.7	40.3
51°	25.3	21.7	22.4	25.0	29.2	35.1
51.5°	21.0	16.9	17.4	20.1	24.6	30.5
52°	17.0	12.0	12.4	15.3	20.1	25.9
52.5°	13.1	6.9	7.4	10.4	15.5	21.3
53°	9.2	3.3	3.6	5.7	10.3	16.7
53.5°	5.2	2.6	2.9	2.5	5.8	12.1
54°	1.4	1.9	2.1	2.1	2.7	7.1
54.5°	1.0	1.3	1.4	1.6	2.2	3.6
55°	0.8	0.7	0.7	1.2	1.7	2.9
55.5°	0.7	0.6	0.6	0.7	1.3	2.2
56°	0.6	0.5	0.6	0.7	0.8	1.5
56.5°	0.5	0.5	0.5	0.6	0.7	0.9
57°	0.5	0.4	0.5	0.5	0.6	0.8
57.5°	0.4	0.4	0.4	0.5	0.6	0.7
58°	0.4	0.4	0.4	0.5	0.5	0.6
58.5°	0.4	0.3	0.4	0.4	0.5	0.6
59°	0.3	0.3	0.3	0.4	0.5	0.5
59.5°	0.3	0.3	0.3	0.4	0.4	0.5
60°	0.3	0.3	0.3	0.3	0.4	0.4
60.5°	0.3	0.3	0.3	0.3	0.4	0.4
61°	0.3	0.2	0.3	0.3	0.3	0.4
61.5°	0.2	0.2	0.2	0.3	0.3	0.3
62°	0.2	0.2	0.2	0.3	0.3	0.3
62.5°	0.2	0.2	0.2	0.2	0.3	0.3
63°	0.2	0.2	0.2	0.2	0.3	0.3
63.5°	0.2	0.2	0.2	0.2	0.2	0.3
64°	0.2	0.2	0.2	0.2	0.2	0.2
64.5°	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.1	0.2	0.2	0.2	0.2
65.5°	0.1	0.1	0.1	0.2	0.2	0.2
66°	0.1	0.1	0.1	0.2	0.2	0.2



TEST NUMBER: P775890
 CATALOG NUMBER: HCDJBL510CSD-HCD8TSQC-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.1	0.1	0.1	0.1	0.1	0.2
68°	0.1	0.1	0.1	0.1	0.1	0.2
68.5°	0.1	0.1	0.1	0.1	0.1	0.1
69°	0.1	0.1	0.1	0.1	0.1	0.1
69.5°	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1
70.5°	0.1	0.1	0.1	0.1	0.1	0.1
71°	0.1	0.1	0.1	0.1	0.1	0.1
71.5°	0.1	0.1	0.1	0.1	0.1	0.1
72°	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.1	0.1	0.1	0.1	0.1
73°	0.1	0.1	0.1	0.1	0.1	0.1
73.5°	0.0	0.0	0.1	0.1	0.1	0.1
74°	0.0	0.0	0.0	0.1	0.1	0.1
74.5°	0.0	0.0	0.0	0.1	0.1	0.1
75°	0.0	0.0	0.0	0.0	0.1	0.1
75.5°	0.0	0.0	0.0	0.0	0.0	0.1
76°	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0
82°	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
83°	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	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
85.5°	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0
87°	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
88°	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775890
CATALOG NUMBER: HCDJBL510CSD-HCD8TSQC-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°

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21.5°	826.8	857.2	892.0	901.3	919.2	917.9	914.5	894.1	882.8	849.4	819.7
22°	821.5	853.1	886.1	897.8	916.0	916.6	909.7	890.5	876.0	841.9	814.2



44°	180.4	207.7	234.6	263.5	288.7	294.0	277.2	252.2	218.0	184.9	160.0
44.5°	165.2	190.8	218.3	246.9	272.4	276.3	260.1	235.7	202.4	169.6	145.3



66.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1
67°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1



89°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	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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21.5°	800.7	802.7	802.9	812.5	818.9	826.8
22°	794.1	796.0	791.7	802.1	813.9	821.5



44°	144.3	130.5	130.0	138.2	155.9	180.4
44.5°	130.8	118.3	118.7	126.1	142.0	165.2

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66.5°	0.1	0.1	0.1	0.2	0.2	0.2
67°	0.1	0.1	0.1	0.1	0.2	0.2

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89°	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

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(END OF REPORT)