

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

Report Number: P639491

Luminaire Tested: RL56069FSD2W1EWH -600LM -3500K

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-2019
Report Number: P639491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2206549B001)
Test Lab:
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: RL56069FSD2W1EWH -600LM -3500K
Description: 5/6IN RETROFIT, 600LM SELECTABLE CCT, MATTE WHITE BAFFLE
Light Source: (1) DEDICATED LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

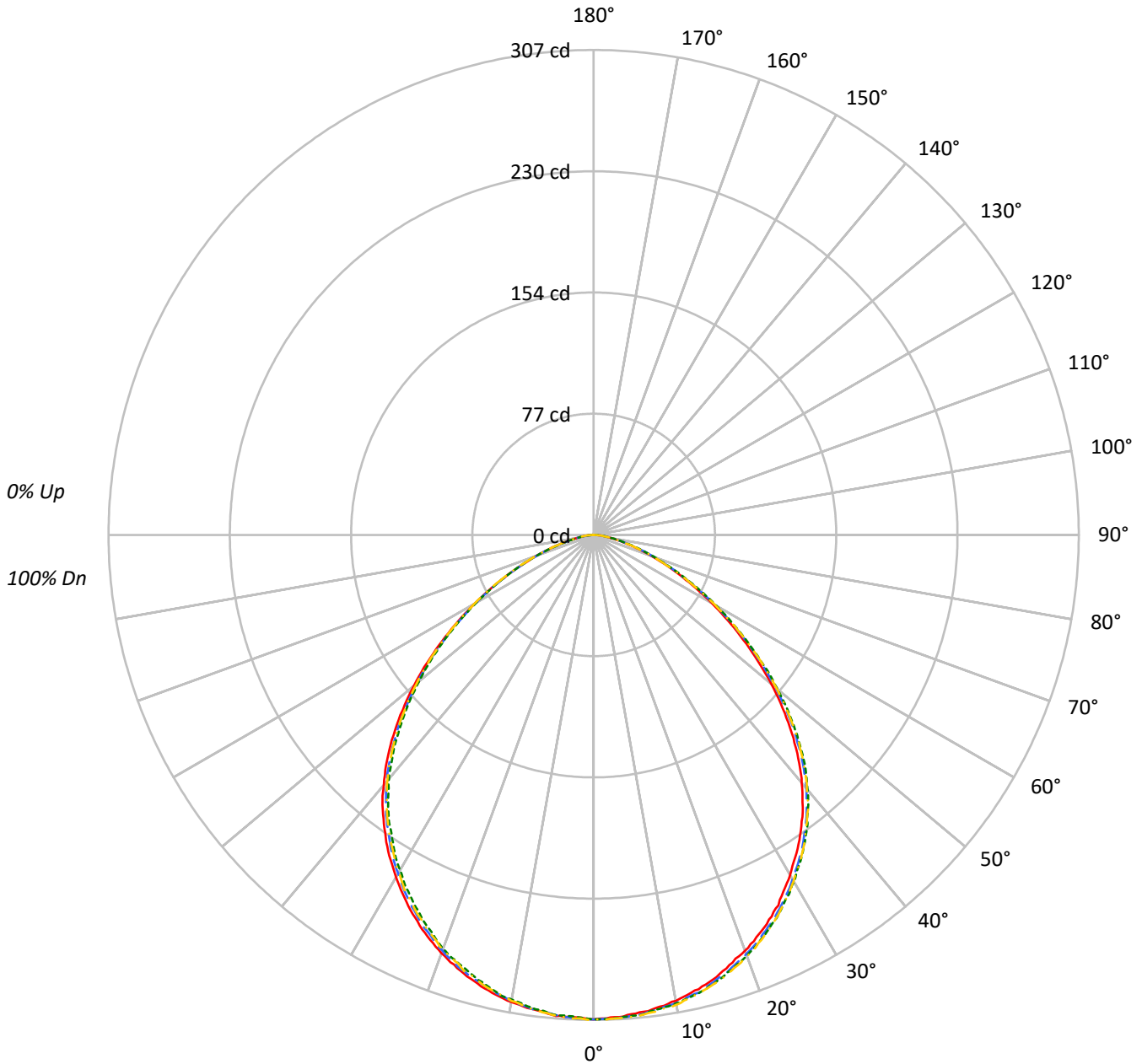
Lumens per Lamp: N/A
Luminaire Lumens: 710.0 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.3
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 6.9
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					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87								
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	74								
3	93	84	76	70	91	82	75	70	79	73	69	76	72	67	74	70	66	64								
4	86	75	67	61	84	73	66	60	71	65	59	69	63	59	67	62	58	56								
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49								
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43								
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	39								
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35								
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31								
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16813	16813	16813	16813
5°	16740	16806	16779	16762
10°	16677	16761	16716	16627
15°	16544	16697	16589	16447
20°	16346	16545	16434	16259
25°	16126	16332	16168	15884
30°	15743	16053	15832	15515
35°	15292	15640	15399	15044
40°	14663	15078	14778	14427
45°	13738	14195	13893	13467
50°	12503	12955	12656	12298
55°	11039	11431	11173	10963
60°	9462	9835	9528	9407
65°	7835	8133	7822	7809
70°	6267	6572	6139	6107
75°	4723	5041	4533	4363
80°	3504	3725	3189	3062
85°	3082	3271	2579	2327

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 112.5°
 Vertical Angle: 45°
 Luminance: 14211 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	4.1
10°-20°	82.4	11.6
20°-30°	122.9	17.3
30°-40°	143.4	20.2
40°-50°	137.4	19.3
50°-60°	104.7	14.7
60°-70°	61.0	8.6
70°-80°	24.3	3.4
80°-90°	5.1	0.7
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°-30°	234.2	33.0
0°-40°	377.6	53.2
0°-60°	619.6	87.3
0°-90°	710.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	710.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	307	307	307	307	307	
5°	304	305	305	305	304	29
15°	292	294	292	290	292	82
25°	267	270	267	263	267	122
35°	228	234	230	225	228	143
45°	177	183	179	174	177	136
55°	116	120	117	115	116	103
65°	60	63	60	60	60	60
75°	22	24	21	21	22	24
85°	5	5	4	4	5	6
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°	306.7	306.7	306.7	306.7	306.7	306.7	306.7	306.7	306.7	306.7	306.7
0.5°	306.3	306.7	306.7	306.8	306.6	306.7	306.9	306.5	306.4	306.7	306.7
1°	306.2	306.6	306.5	306.6	306.6	306.7	307.2	306.9	306.1	306.6	306.4
1.5°	306.2	306.6	306.3	306.7	306.5	306.6	306.9	307.0	305.7	306.5	306.2
2°	305.7	306.4	306.1	306.7	306.4	306.0	306.4	306.9	305.7	306.6	306.5
2.5°	305.6	306.7	306.2	306.5	306.3	306.3	306.4	306.4	305.6	306.3	306.2
3°	305.7	306.4	306.2	306.8	306.0	306.5	306.3	306.3	305.6	306.0	305.7
3.5°	305.5	306.1	305.8	306.8	305.6	306.5	306.3	306.5	305.6	306.2	305.8
4°	304.6	305.7	305.8	306.5	305.6	306.6	306.2	305.6	305.2	306.6	305.0
4.5°	304.3	305.4	305.4	305.7	305.4	306.4	306.1	305.3	305.5	306.1	305.0
5°	304.2	305.5	305.1	305.7	305.4	306.0	305.8	305.3	304.9	305.1	304.3
5.5°	303.6	305.5	305.1	305.4	305.5	305.1	305.7	305.2	304.5	304.9	303.8
6°	303.6	304.9	304.8	305.0	305.1	305.0	305.2	304.7	303.7	304.8	303.7
6.5°	303.5	303.9	303.9	304.8	304.2	304.5	304.7	304.1	303.3	303.8	303.5
7°	302.7	303.7	303.7	304.3	303.4	304.2	304.4	303.8	302.9	303.7	303.0
7.5°	302.0	303.0	303.2	304.0	303.0	303.4	304.3	303.6	302.5	303.2	302.6
8°	301.6	302.5	302.7	303.3	303.0	302.9	303.5	303.0	302.4	302.4	301.7
8.5°	301.4	302.1	302.1	303.2	302.3	302.9	303.0	302.8	301.8	301.9	301.2
9°	300.6	301.9	301.8	302.3	302.2	302.4	302.6	302.2	301.1	301.4	300.7
9.5°	299.7	301.4	301.3	302.1	301.7	301.7	302.5	301.8	300.6	301.3	300.2
10°	299.6	300.5	300.9	301.5	301.1	301.2	302.0	301.0	300.3	300.4	299.8
10.5°	298.6	300.3	300.1	300.6	301.0	301.0	301.4	300.4	299.8	300.1	298.8
11°	297.9	299.3	299.6	300.5	299.8	299.8	300.2	299.8	299.0	298.7	297.9
11.5°	297.3	298.5	298.6	299.3	299.3	299.2	299.8	298.8	298.3	298.5	297.3
12°	296.3	297.9	297.9	298.6	298.7	299.2	299.4	298.2	297.6	297.6	296.6
12.5°	295.4	297.2	297.4	298.0	297.9	298.7	298.2	297.7	296.9	297.0	295.7
13°	295.2	296.3	297.4	297.1	297.6	297.8	297.6	296.6	295.9	296.6	295.0
13.5°	294.0	295.0	296.0	296.6	296.6	297.0	296.7	296.3	295.3	295.4	293.8
14°	293.3	294.4	294.9	295.5	295.9	296.1	296.0	295.3	294.5	294.0	293.0
14.5°	292.3	294.0	294.0	295.0	294.7	295.7	295.2	294.5	293.3	293.4	291.8
15°	291.5	293.1	293.1	294.3	294.2	294.4	294.3	293.4	292.3	292.3	291.3
15.5°	290.5	291.4	291.8	293.4	292.9	293.3	293.6	292.4	291.4	291.4	290.4
16°	289.2	290.5	290.9	292.2	292.2	292.5	292.7	291.8	290.7	290.1	289.4
16.5°	288.0	289.8	290.1	290.9	291.1	291.2	291.6	290.7	289.5	289.3	288.1
17°	287.0	288.3	289.4	290.2	289.6	290.5	290.2	289.4	288.5	288.1	287.4
17.5°	285.6	287.9	288.0	288.7	289.1	289.4	289.4	288.5	287.4	286.8	286.4
18°	284.7	286.5	286.9	287.4	287.9	288.0	288.2	288.2	286.0	286.2	285.0
18.5°	282.8	284.7	285.7	287.3	286.6	287.3	287.4	286.5	285.4	285.1	283.7
19°	282.2	283.8	284.5	285.8	285.8	286.3	286.3	285.2	284.0	283.5	282.7
19.5°	281.2	282.7	283.7	284.1	284.6	284.8	284.9	284.2	282.7	282.2	281.4
20°	280.2	282.1	282.4	283.2	283.6	283.6	283.7	282.6	281.7	281.5	280.0
20.5°	279.1	280.6	281.3	282.0	282.1	282.4	282.8	281.4	280.3	279.7	279.0
21°	277.4	279.6	280.0	280.6	281.1	281.2	281.9	280.4	279.2	278.6	277.2



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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°	273.5	275.4	275.9	277.4	276.9	277.5	277.5	276.3	275.0	274.5	272.8
23°	272.3	273.9	274.3	275.5	276.0	276.4	275.9	275.0	273.5	272.6	271.6
23.5°	270.9	272.5	273.3	274.2	274.2	275.0	274.5	273.6	272.3	271.2	270.4
24°	269.6	270.9	271.5	272.4	273.0	273.6	273.1	272.2	270.7	270.0	268.8
24.5°	267.5	269.3	270.3	271.1	271.3	272.1	271.7	270.5	268.8	268.8	266.9
25°	266.6	267.8	269.3	269.7	270.0	270.3	270.1	269.1	267.3	266.9	265.2
25.5°	264.4	266.3	267.4	268.3	268.7	268.5	268.6	267.3	265.9	264.9	263.4
26°	263.0	264.7	265.6	266.7	267.1	267.1	267.0	265.5	264.3	263.4	262.2
26.5°	262.0	262.9	264.1	264.9	265.4	265.9	265.2	263.9	262.6	262.0	260.2
27°	259.3	261.6	262.3	263.4	263.6	264.1	263.5	262.7	260.8	260.1	258.6
27.5°	257.6	260.1	260.6	261.7	261.7	262.1	262.1	260.8	259.1	258.5	256.9
28°	255.8	257.9	258.8	260.0	260.1	260.3	259.9	259.0	257.3	256.9	255.2
28.5°	253.9	256.0	257.3	258.1	259.0	258.5	258.3	257.1	255.7	255.0	253.3
29°	252.1	254.2	255.6	256.2	257.1	256.8	256.6	255.5	253.7	253.1	251.5
29.5°	250.5	252.5	253.6	254.7	254.9	254.9	254.7	253.6	252.1	250.9	249.6
30°	248.7	251.0	251.8	252.9	253.6	253.2	253.1	251.7	250.1	249.0	247.4
30.5°	246.5	249.1	250.1	251.0	251.6	251.4	250.9	249.8	248.2	247.4	245.9
31°	244.3	246.8	248.1	249.1	249.2	249.6	249.1	248.0	246.3	245.5	243.9
31.5°	242.5	245.3	246.2	247.2	247.5	247.6	247.5	246.1	244.3	243.8	242.1
32°	240.7	243.4	244.4	245.2	245.7	246.1	245.7	244.1	242.5	242.0	240.0
32.5°	238.8	241.3	242.5	243.4	243.9	243.8	243.8	242.2	240.8	239.5	237.9
33°	236.9	239.2	240.6	241.3	241.9	241.9	241.6	240.1	238.7	237.5	235.9
33.5°	234.9	237.3	238.7	239.4	240.0	239.9	239.8	238.0	236.6	235.4	233.6
34°	232.9	235.3	236.7	237.6	237.7	237.7	237.7	236.2	234.7	233.4	231.4
34.5°	230.7	232.8	234.6	235.6	235.9	235.7	235.6	234.4	232.4	231.2	229.1
35°	228.5	231.1	232.3	233.7	233.7	233.8	233.2	232.2	230.1	229.1	227.1
35.5°	226.5	228.8	230.2	231.2	231.6	231.8	231.1	230.6	228.2	227.2	225.1
36°	224.0	226.6	228.2	229.0	229.7	229.9	228.7	227.9	226.0	225.0	222.7
36.5°	222.1	224.5	225.8	227.0	227.5	227.6	226.6	225.3	223.6	222.7	220.8
37°	219.8	221.9	223.8	224.8	224.5	225.3	224.4	223.4	221.4	220.4	218.4
37.5°	217.4	220.0	221.3	222.0	222.5	222.4	222.0	220.9	219.2	217.9	216.0
38°	214.6	217.3	219.0	219.7	220.2	220.4	220.5	218.4	217.1	215.5	213.4
38.5°	212.4	215.1	216.2	217.2	218.2	217.8	217.9	215.9	214.6	212.9	211.2
39°	210.1	212.5	214.1	214.9	215.8	216.0	215.1	213.9	212.3	211.0	208.7
39.5°	207.4	210.2	211.7	212.7	213.5	213.6	212.4	211.4	209.2	208.1	206.1
40°	204.9	208.2	209.3	210.3	210.7	210.7	209.8	208.9	206.5	205.9	203.7
40.5°	202.6	205.1	206.9	207.7	207.9	208.1	207.6	205.7	204.1	203.7	201.2
41°	199.8	202.3	204.0	205.2	205.7	205.8	205.0	203.8	201.3	200.6	198.7
41.5°	197.1	199.5	201.3	202.5	203.1	203.2	202.3	201.4	199.1	197.6	195.7
42°	194.4	197.0	198.8	199.7	200.5	199.9	199.6	198.1	196.3	195.1	193.0
42.5°	191.6	194.0	195.9	196.6	198.1	197.6	196.7	195.4	193.4	192.5	190.2
43°	188.9	191.2	192.9	193.9	195.1	194.6	194.0	192.5	190.7	189.6	187.5
43.5°	186.0	188.4	190.1	191.3	192.1	191.9	190.9	189.6	187.9	186.7	184.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	177.2	179.6	181.5	182.2	183.1	183.3	182.2	181.0	179.2	177.8	176.2
45.5°	174.3	176.7	178.1	179.4	180.4	180.3	179.6	178.0	176.1	174.8	173.3
46°	171.3	173.5	175.4	176.5	177.1	177.1	176.4	174.9	173.2	172.0	170.3
46.5°	168.1	170.4	172.4	173.5	174.4	173.9	173.3	171.9	170.1	168.8	167.1
47°	165.5	167.3	169.1	169.9	170.9	171.1	169.9	168.7	167.2	165.8	164.2
47.5°	162.1	164.4	166.1	166.6	167.8	167.8	166.9	165.8	163.7	163.0	160.9
48°	159.1	161.2	163.0	163.5	165.0	164.5	163.9	162.8	160.9	160.0	158.0
48.5°	156.1	158.1	159.6	160.6	161.5	161.4	161.0	159.4	157.9	156.9	154.9
49°	152.8	154.8	156.5	157.4	158.3	158.1	157.3	156.3	154.9	153.8	152.0
49.5°	149.9	151.7	153.4	154.4	155.2	155.1	154.3	153.2	151.7	150.5	148.8
50°	146.6	148.4	150.1	150.8	151.9	152.1	151.0	149.9	148.4	147.4	145.9
50.5°	143.7	145.6	146.9	147.9	148.5	148.7	147.8	146.6	145.2	144.3	142.8
51°	140.4	142.5	143.6	144.8	145.6	145.0	144.8	143.6	142.2	141.5	139.9
51.5°	137.3	139.3	140.7	141.4	142.6	142.1	141.6	140.5	139.1	137.9	136.6
52°	133.9	135.9	137.3	138.5	139.4	138.9	138.2	137.3	136.1	135.1	133.5
52.5°	130.9	132.5	134.1	135.0	135.8	135.7	135.1	134.2	132.8	132.0	130.5
53°	127.9	129.5	130.9	131.9	132.4	132.9	131.8	130.8	129.5	128.6	127.5
53.5°	124.7	126.4	127.9	128.8	129.4	129.3	128.7	127.7	126.4	125.7	124.5
54°	121.7	123.2	124.9	125.5	126.0	126.0	125.4	124.7	123.4	122.5	121.4
54.5°	118.8	120.2	121.6	122.5	122.9	122.9	122.3	121.6	120.3	119.4	118.3
55°	115.5	117.0	118.4	119.4	119.6	119.7	119.2	118.3	116.9	116.2	115.2
55.5°	112.5	113.9	115.3	116.2	116.6	116.6	115.9	115.1	113.9	113.1	112.3
56°	109.5	110.8	112.3	113.2	113.5	113.4	112.6	112.1	110.8	110.1	109.3
56.5°	106.6	107.9	109.3	110.1	110.5	110.3	109.6	108.9	108.0	107.3	106.3
57°	103.6	104.8	106.3	106.9	107.5	107.2	106.8	105.8	104.7	104.1	103.5
57.5°	100.5	101.9	103.5	104.0	104.3	104.2	103.5	102.7	101.7	101.1	100.4
58°	97.5	99.0	100.4	101.1	101.4	101.2	100.5	99.8	98.7	98.2	97.4
58.5°	94.8	95.8	97.3	98.0	98.6	98.3	97.4	96.6	95.6	95.2	94.5
59°	91.9	93.0	94.4	94.9	95.6	95.3	94.5	93.8	92.8	92.1	91.6
59.5°	89.1	90.0	91.4	92.1	92.3	92.1	91.8	90.7	89.7	89.3	88.9
60°	86.3	87.1	88.6	89.4	89.7	89.2	88.7	87.9	86.9	86.6	86.1
60.5°	83.5	84.4	85.8	86.4	86.9	86.6	85.8	85.0	84.1	83.7	83.2
61°	80.7	81.6	83.1	83.7	84.1	83.6	82.8	82.0	81.2	80.8	80.5
61.5°	78.1	78.9	80.2	80.9	81.2	80.8	80.0	79.2	78.5	78.0	77.6
62°	75.4	76.2	77.5	78.0	78.6	77.9	77.2	76.5	75.7	75.3	75.0
62.5°	72.7	73.6	74.7	75.4	75.8	75.2	74.5	74.0	73.0	72.6	72.4
63°	70.1	71.0	72.1	72.7	73.1	72.4	71.9	71.0	70.4	70.0	69.6
63.5°	67.6	68.5	69.5	70.2	70.3	69.9	69.1	68.4	67.8	67.5	67.3
64°	65.0	65.9	67.0	67.7	67.8	67.4	66.7	65.8	65.2	64.9	64.8
64.5°	62.7	63.5	64.6	65.1	65.4	64.8	64.1	63.3	62.6	62.5	62.2
65°	60.4	61.1	62.0	62.6	62.7	62.3	61.5	60.9	60.3	60.2	59.7
65.5°	57.9	58.6	59.7	60.2	60.4	59.9	59.2	58.5	57.8	57.5	57.5
66°	55.6	56.4	57.4	57.8	58.0	57.4	56.7	55.9	55.4	55.2	55.0



TEST NUMBER: P639491

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	49.2	49.8	50.8	51.3	51.0	50.6	49.9	49.2	48.6	48.4	48.3
68°	47.1	47.7	48.6	49.1	48.9	48.4	47.7	46.9	46.4	46.3	46.1
68.5°	45.1	45.7	46.4	47.0	46.7	46.3	45.5	44.7	44.2	44.2	43.9
69°	43.0	43.7	44.4	44.9	44.7	44.3	43.5	42.8	42.2	42.0	41.8
69.5°	41.0	41.7	42.4	42.9	42.9	42.3	41.5	40.8	40.2	40.0	39.9
70°	39.1	39.8	40.6	40.9	41.0	40.4	39.6	38.9	38.3	38.1	38.0
70.5°	37.2	37.9	38.6	39.0	39.1	38.5	37.9	37.1	36.5	36.3	36.1
71°	35.3	36.1	36.7	37.1	37.2	36.7	36.0	35.2	34.7	34.4	34.3
71.5°	33.4	34.2	34.8	35.2	35.4	34.8	34.1	33.5	32.8	32.5	32.4
72°	31.8	32.3	33.0	33.3	33.7	33.1	32.3	31.7	31.0	30.8	30.7
72.5°	29.9	30.5	31.2	31.5	31.8	31.4	30.6	29.9	29.4	29.1	28.9
73°	28.2	28.9	29.4	29.7	30.1	29.6	28.9	28.2	27.7	27.4	27.2
73.5°	26.7	27.3	27.8	28.1	28.5	28.0	27.2	26.6	26.0	25.8	25.6
74°	25.2	25.8	26.3	26.4	27.0	26.3	25.6	25.0	24.4	24.1	23.9
74.5°	23.7	24.3	24.7	24.9	25.3	24.7	24.1	23.5	22.9	22.6	22.5
75°	22.3	22.9	23.3	23.4	23.8	23.3	22.6	22.0	21.4	21.1	21.0
75.5°	20.8	21.4	21.9	22.0	22.3	21.9	21.1	20.6	20.0	19.7	19.6
76°	19.6	20.1	20.5	20.6	20.9	20.5	19.8	19.2	18.7	18.4	18.2
76.5°	18.3	18.8	19.2	19.2	19.6	19.1	18.5	17.8	17.3	17.0	16.9
77°	17.1	17.6	17.9	18.0	18.3	17.8	17.2	16.6	16.0	15.8	15.7
77.5°	15.9	16.4	16.8	16.8	17.1	16.6	16.0	15.5	14.9	14.6	14.5
78°	14.8	15.2	15.6	15.7	15.9	15.5	14.9	14.4	13.9	13.5	13.4
78.5°	13.8	14.3	14.6	14.6	14.8	14.3	13.8	13.3	12.8	12.6	12.4
79°	12.9	13.3	13.5	13.5	13.7	13.3	12.7	12.5	11.9	11.6	11.5
79.5°	12.0	12.5	12.7	12.7	12.6	12.4	12.0	11.5	11.0	10.7	10.6
80°	11.1	11.6	11.8	11.8	11.8	11.5	11.0	10.6	10.1	9.9	9.7
80.5°	10.4	10.7	11.0	10.9	10.9	10.6	10.2	9.8	9.4	9.1	8.9
81°	9.6	10.0	10.1	10.1	10.1	9.8	9.4	9.0	8.7	8.4	8.2
81.5°	8.9	9.2	9.4	9.4	9.3	9.0	8.6	8.3	8.0	7.8	7.6
82°	8.3	8.5	8.7	8.7	8.6	8.3	8.0	7.7	7.4	7.2	7.0
82.5°	7.7	7.9	8.1	8.0	7.9	7.7	7.5	7.1	6.8	6.6	6.4
83°	7.1	7.4	7.6	7.6	7.4	7.1	6.9	6.6	6.3	6.1	5.8
83.5°	6.5	6.8	7.0	7.0	6.7	6.6	6.3	6.0	5.7	5.5	5.3
84°	6.0	6.3	6.5	6.5	6.3	6.0	5.8	5.5	5.2	4.9	4.7
84.5°	5.5	5.7	5.9	5.9	5.7	5.6	5.3	5.0	4.6	4.4	4.2
85°	4.9	5.2	5.4	5.4	5.2	5.0	4.7	4.5	4.1	3.9	3.6
85.5°	4.4	4.7	4.9	4.9	4.7	4.5	4.3	3.9	3.5	3.4	3.1
86°	3.8	4.2	4.4	4.4	4.2	4.0	3.7	3.4	3.1	2.8	2.7
86.5°	3.3	3.6	3.8	3.9	3.7	3.5	3.3	2.9	2.7	2.3	2.1
87°	2.8	3.2	3.3	3.4	3.3	3.0	2.7	2.4	2.1	1.8	1.5
87.5°	2.3	2.7	2.8	2.9	2.7	2.7	2.2	1.9	1.6	1.3	1.1
88°	1.8	2.1	2.4	2.4	2.2	2.1	1.7	1.4	1.1	0.8	0.6
88.5°	1.4	1.7	1.8	1.9	1.7	1.5	1.3	0.9	0.6	0.3	0.3



TEST NUMBER: P639491

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.1	0.3	0.5	0.5	0.4	0.3	0.1	0.0	0.0	0.0	0.0



TEST NUMBER: P639491

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	306.7	306.7	306.7	306.7	306.7	306.7
0.5°	306.5	306.4	306.8	307.1	306.4	306.3
1°	306.2	306.0	306.2	306.7	306.5	306.2
1.5°	306.1	305.8	306.0	306.3	306.9	306.2
2°	306.1	305.5	306.0	306.3	306.9	305.7
2.5°	305.6	305.0	305.8	306.4	306.2	305.6
3°	305.6	305.0	305.4	306.1	305.8	305.7
3.5°	305.5	304.8	305.4	305.8	305.7	305.5
4°	305.4	305.0	305.1	305.4	305.5	304.6
4.5°	305.1	304.9	305.2	305.2	305.0	304.3
5°	305.3	304.6	304.1	304.9	304.5	304.2
5.5°	305.0	303.8	304.1	304.1	303.8	303.6
6°	303.5	303.0	303.3	304.0	303.8	303.6
6.5°	302.9	302.6	303.3	303.4	302.8	303.5
7°	302.5	302.5	302.8	302.9	302.7	302.7
7.5°	302.1	301.7	301.5	302.6	302.3	302.0
8°	302.0	301.3	301.1	301.9	301.9	301.6
8.5°	301.0	300.4	300.6	301.3	301.4	301.4
9°	300.5	299.8	299.6	300.4	300.7	300.6
9.5°	300.0	299.1	299.3	299.8	300.3	299.7
10°	299.3	298.7	299.2	299.5	299.5	299.6
10.5°	298.4	298.1	298.2	298.5	299.0	298.6
11°	298.4	297.9	297.9	297.9	297.6	297.9
11.5°	297.3	297.2	297.2	296.9	297.1	297.3
12°	296.9	295.9	295.4	296.1	296.5	296.3
12.5°	295.6	295.0	294.5	295.4	295.4	295.4
13°	294.3	293.9	294.0	294.8	294.7	295.2
13.5°	293.7	292.9	293.5	293.9	293.8	294.0
14°	293.2	291.8	292.5	292.9	293.0	293.3
14.5°	292.1	291.2	291.4	291.7	291.5	292.3
15°	291.0	289.8	290.7	290.4	291.3	291.5
15.5°	289.7	288.7	289.1	289.4	290.1	290.5
16°	288.6	287.5	288.1	288.1	288.8	289.2
16.5°	287.7	286.4	287.0	288.1	287.7	288.0
17°	286.6	285.4	286.0	286.6	287.1	287.0
17.5°	285.5	284.5	285.2	284.6	285.5	285.6
18°	284.6	283.1	283.7	283.8	284.0	284.7
18.5°	282.8	282.4	281.9	282.4	283.2	282.8
19°	281.9	281.3	280.7	282.0	282.0	282.2
19.5°	280.6	279.9	279.5	280.2	281.0	281.2
20°	279.3	278.7	278.2	279.0	279.6	280.2
20.5°	277.5	277.3	277.0	278.1	278.5	279.1
21°	276.3	275.7	275.8	276.2	276.6	277.4

TEST NUMBER: P639491

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	272.4	270.7	271.0	272.1	272.2	273.5
23°	270.6	269.4	269.4	270.7	271.3	272.3
23.5°	269.4	267.8	268.2	269.0	269.7	270.9
24°	267.7	266.4	266.6	267.1	267.9	269.6
24.5°	266.1	264.4	265.0	265.9	266.5	267.5
25°	264.4	262.6	263.3	264.5	265.2	266.6
25.5°	262.6	261.3	261.4	262.7	263.4	264.4
26°	261.1	259.6	260.0	260.9	262.1	263.0
26.5°	259.4	257.7	258.5	259.2	260.0	262.0
27°	257.6	256.1	256.5	257.6	258.3	259.3
27.5°	255.8	254.2	254.6	256.0	256.8	257.6
28°	254.1	253.0	253.0	254.8	254.9	255.8
28.5°	252.4	250.9	251.2	252.6	253.0	253.9
29°	250.3	249.0	249.4	250.7	251.2	252.1
29.5°	248.2	246.7	247.5	248.4	249.4	250.5
30°	246.5	245.1	245.3	246.8	247.6	248.7
30.5°	244.6	243.3	243.5	245.0	245.6	246.5
31°	242.7	241.5	241.5	243.1	243.6	244.3
31.5°	240.9	239.6	239.5	240.8	241.7	242.5
32°	238.5	237.5	237.4	238.8	239.9	240.7
32.5°	236.3	235.4	235.3	236.5	237.9	238.8
33°	234.3	232.8	233.4	234.7	235.9	236.9
33.5°	232.3	231.1	231.5	232.7	233.8	234.9
34°	230.3	228.7	229.2	230.4	231.8	232.9
34.5°	228.3	226.7	227.2	228.6	229.7	230.7
35°	226.3	224.8	225.1	226.4	227.7	228.5
35.5°	224.0	223.0	223.0	224.1	225.2	226.5
36°	221.4	220.6	221.0	222.1	223.2	224.0
36.5°	219.4	218.3	218.4	219.7	220.6	222.1
37°	217.5	216.2	215.9	217.5	218.7	219.8
37.5°	215.1	213.6	213.7	215.0	216.5	217.4
38°	212.5	211.1	211.6	212.7	214.1	214.6
38.5°	210.1	208.5	209.4	210.4	211.4	212.4
39°	207.7	206.2	206.7	208.0	209.0	210.1
39.5°	204.9	204.1	204.3	205.8	206.4	207.4
40°	202.5	201.6	201.6	203.2	204.1	204.9
40.5°	200.0	199.1	199.5	200.6	201.3	202.6
41°	197.1	196.2	196.8	198.1	198.8	199.8
41.5°	194.8	193.1	194.2	195.5	196.2	197.1
42°	192.2	190.5	191.8	192.6	193.5	194.4
42.5°	189.1	188.0	188.7	189.7	191.1	191.6
43°	186.5	185.4	185.6	187.1	188.1	188.9
43.5°	183.5	182.7	182.7	184.3	185.4	186.0



TEST NUMBER: P639491

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	175.2	173.7	174.3	175.7	176.7	177.2
45.5°	172.2	170.9	171.4	172.8	173.5	174.3
46°	169.2	168.0	168.5	170.3	171.0	171.3
46.5°	166.1	165.2	166.0	167.0	167.7	168.1
47°	163.3	162.2	162.7	164.0	164.9	165.5
47.5°	160.2	159.2	160.0	161.2	161.6	162.1
48°	157.3	156.3	156.8	158.4	158.8	159.1
48.5°	154.1	153.3	154.0	154.9	155.6	156.1
49°	150.9	150.2	151.1	152.2	152.6	152.8
49.5°	147.9	147.4	148.1	149.2	149.3	149.9
50°	145.2	144.2	145.5	146.2	146.2	146.6
50.5°	141.9	141.3	142.2	143.2	143.6	143.7
51°	138.8	138.3	139.4	140.2	140.5	140.4
51.5°	135.8	135.6	136.0	137.2	137.3	137.3
52°	132.9	132.4	133.1	134.2	134.0	133.9
52.5°	129.8	129.5	130.4	131.1	131.0	130.9
53°	126.9	126.4	127.6	128.3	128.1	127.9
53.5°	123.9	123.4	124.4	125.1	125.0	124.7
54°	120.9	120.6	121.3	122.4	121.8	121.7
54.5°	117.9	117.4	118.1	119.3	118.9	118.8
55°	115.0	114.7	115.4	116.2	115.8	115.5
55.5°	112.0	111.6	112.4	113.0	112.8	112.5
56°	109.2	108.7	109.3	110.2	109.8	109.5
56.5°	106.2	105.6	106.3	107.4	107.1	106.6
57°	103.4	102.9	103.7	104.4	104.1	103.6
57.5°	100.3	99.7	100.8	101.3	100.9	100.5
58°	97.3	96.9	97.8	98.4	98.1	97.5
58.5°	94.6	94.1	94.9	95.6	95.1	94.8
59°	91.8	91.4	92.0	92.8	92.2	91.9
59.5°	88.9	88.5	89.4	89.9	89.5	89.1
60°	86.1	85.8	86.4	87.2	86.6	86.3
60.5°	83.5	83.0	83.7	84.4	83.9	83.5
61°	80.8	80.4	81.1	81.6	81.2	80.7
61.5°	77.9	77.8	78.5	78.9	78.5	78.1
62°	75.2	75.0	75.8	76.1	75.6	75.4
62.5°	72.7	72.5	73.1	73.5	73.0	72.7
63°	70.0	70.0	70.5	71.0	70.5	70.1
63.5°	67.4	67.5	68.2	68.4	67.9	67.6
64°	64.8	65.0	65.5	65.9	65.4	65.0
64.5°	62.3	62.5	63.1	63.4	62.9	62.7
65°	60.1	60.2	60.6	60.9	60.5	60.4
65.5°	57.7	57.7	58.5	58.5	58.2	57.9
66°	55.2	55.3	55.9	56.3	55.8	55.6



TEST NUMBER: P639491

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	48.6	48.7	49.2	49.4	49.3	49.2
68°	46.4	46.6	47.1	47.3	47.1	47.1
68.5°	44.2	44.5	44.9	45.2	45.1	45.1
69°	42.1	42.3	42.8	43.1	43.0	43.0
69.5°	40.1	40.3	40.7	41.0	40.9	41.0
70°	38.2	38.1	38.7	39.1	39.0	39.1
70.5°	36.4	36.1	36.8	37.1	37.1	37.2
71°	34.5	34.2	34.7	35.2	35.3	35.3
71.5°	32.7	32.4	32.9	33.2	33.3	33.4
72°	30.8	30.6	31.0	31.4	31.6	31.8
72.5°	29.1	28.7	29.1	29.6	29.7	29.9
73°	27.3	26.9	27.3	27.8	28.0	28.2
73.5°	25.7	25.2	25.6	26.0	26.4	26.7
74°	24.1	23.6	24.0	24.5	24.8	25.2
74.5°	22.5	22.1	22.4	22.9	23.3	23.7
75°	21.1	20.6	21.0	21.5	21.9	22.3
75.5°	19.7	19.2	19.6	20.0	20.4	20.8
76°	18.2	17.8	18.2	18.7	19.1	19.6
76.5°	16.9	16.6	16.9	17.4	17.8	18.3
77°	15.7	15.4	15.7	16.2	16.6	17.1
77.5°	14.5	14.3	14.6	15.0	15.5	15.9
78°	13.4	13.1	13.4	13.9	14.4	14.8
78.5°	12.4	12.3	12.5	12.9	13.4	13.8
79°	11.4	11.4	11.6	12.0	12.5	12.9
79.5°	10.5	10.5	10.7	11.1	11.6	12.0
80°	9.6	9.7	9.9	10.3	10.7	11.1
80.5°	8.9	8.9	9.1	9.6	10.0	10.4
81°	8.2	8.3	8.5	8.8	9.3	9.6
81.5°	7.6	7.7	7.9	8.3	8.5	8.9
82°	6.9	7.2	7.4	7.6	8.0	8.3
82.5°	6.4	6.6	6.7	7.0	7.4	7.7
83°	5.8	5.9	6.2	6.5	6.8	7.1
83.5°	5.2	5.4	5.6	5.9	6.3	6.5
84°	4.6	4.9	5.0	5.4	5.7	6.0
84.5°	4.1	4.3	4.5	4.8	5.2	5.5
85°	3.5	3.7	4.0	4.3	4.6	4.9
85.5°	3.0	3.2	3.4	3.7	4.0	4.4
86°	2.5	2.7	2.9	3.2	3.5	3.8
86.5°	2.1	2.2	2.4	2.7	3.0	3.3
87°	1.5	1.7	1.9	2.2	2.5	2.8
87.5°	1.0	1.2	1.4	1.7	1.9	2.3
88°	0.5	0.7	0.8	1.2	1.5	1.8
88.5°	0.1	0.3	0.5	0.7	1.0	1.4



TEST NUMBER: P639491

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.1	0.1

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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°	276.5	278.0	278.8	279.8	280.0	280.4	280.2	278.7	277.6	277.2	276.0
22°	274.8	276.3	277.1	278.6	278.5	279.3	278.6	277.8	276.4	276.0	274.3



44°	182.9	185.5	187.3	188.6	189.1	189.2	188.1	186.9	184.9	183.8	181.9
44.5°	180.4	182.5	183.9	185.4	186.0	185.8	185.5	184.0	182.3	180.5	178.7



66.5°	53.4	54.2	55.0	55.5	55.5	55.0	54.4	53.6	53.0	52.8	52.7
67°	51.4	51.9	52.8	53.3	53.3	52.7	52.0	51.3	50.7	50.6	50.4



89°	0.8	1.2	1.4	1.5	1.3	1.1	0.8	0.4	0.2	0.0	0.0
89.5°	0.4	0.7	0.9	0.9	0.9	0.7	0.3	0.0	0.0	0.0	0.0

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21.5°	275.2	274.0	274.2	274.7	275.4	276.5
22°	273.3	272.1	272.9	273.5	273.8	274.8



44°	180.7	179.6	180.0	181.6	182.6	182.9
44.5°	178.2	176.5	177.1	179.0	179.6	180.4

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66.5°	53.0	53.1	53.6	53.9	53.6	53.4
67°	50.7	50.9	51.4	51.7	51.4	51.4

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89°	0.0	0.1	0.2	0.3	0.5	0.8
89.5°	0.0	0.0	0.0	0.1	0.2	0.4

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(END OF REPORT)