

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: P639473

Luminaire Tested: RL4LS9FSD2W1EWH -600LM -5000K

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-2019
Report Number: P639473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2206549A001)
Test Lab:
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: RL4LS9FSD2W1EWH -600LM -5000K
Description: 4IN RETROFIT, SELECTABLE LUMEN AND CCT, MATTE WHITE BAFFLE
Light Source: (1) SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

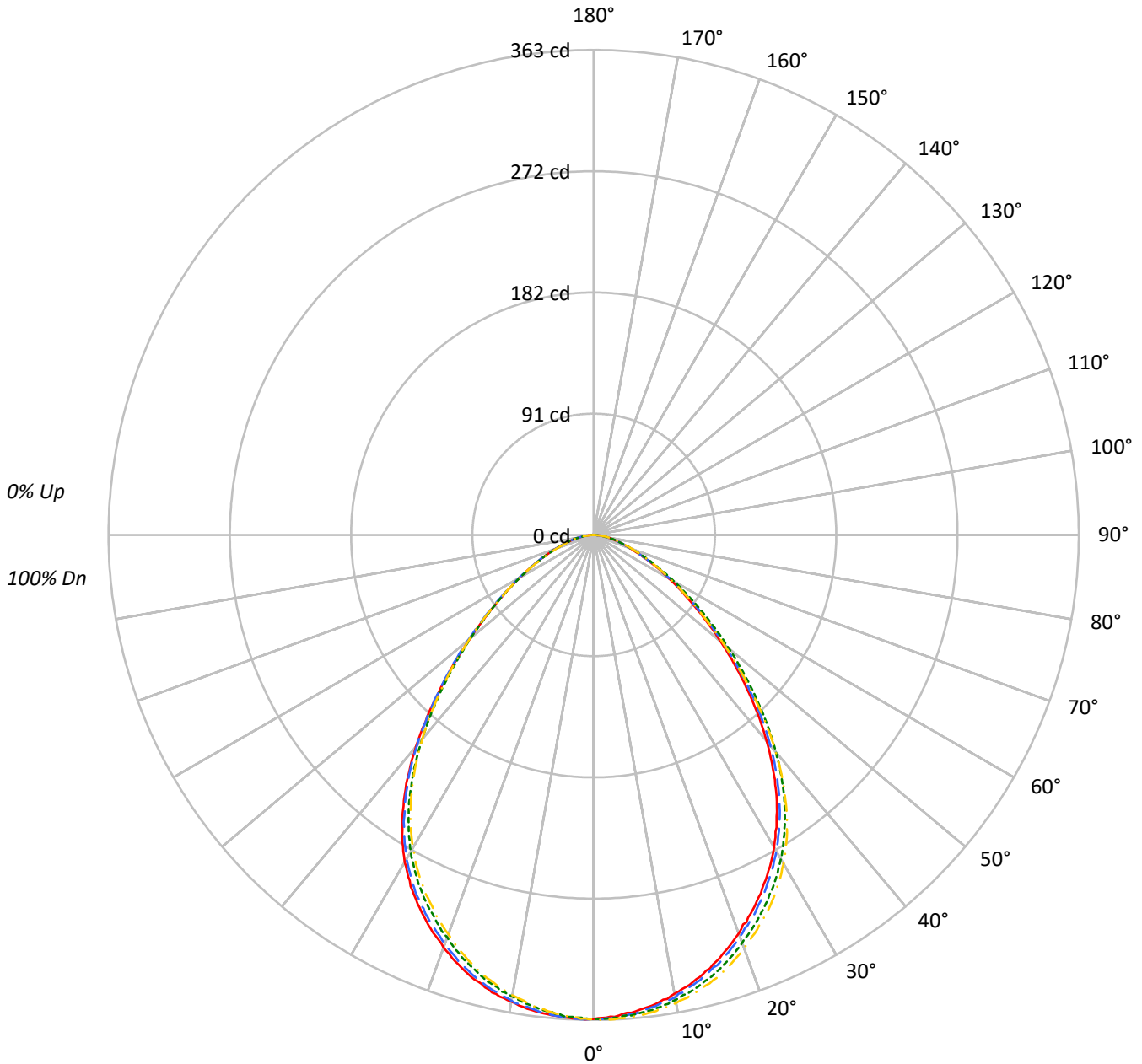
Lumens per Lamp: N/A
Luminaire Lumens: 700.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	107	103	100	108	105	101	99	101	98	96	97	95	93	93	91	90	88								
2	102	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77								
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67								
4	88	77	70	64	86	76	69	63	74	68	63	71	66	62	69	65	61	59								
5	81	70	62	56	80	69	62	56	67	60	55	65	59	55	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	37	35								
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	44778	44778	44778	44778
5°	44428	44676	44787	44465
10°	43762	44339	44515	44025
15°	42992	43747	44092	43299
20°	41759	42732	43232	42154
25°	40352	41552	42002	40924
30°	38518	39988	40359	39060
35°	36000	37584	37403	36211
40°	32461	34236	33365	32219
45°	28245	29993	28263	27634
50°	23861	25400	23304	23035
55°	19651	21031	19070	19048
60°	16018	17155	15746	15696
65°	12955	13774	13102	12955
70°	10443	10949	10913	10732
75°	8739	8882	9216	9121
80°	7473	7544	8114	8043
85°	5105	5247	6523	6523

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 29993 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.1	4.9
10°-20°	95.8	13.7
20°-30°	138.9	19.8
30°-40°	151.8	21.7
40°-50°	126.1	18.0
50°-60°	82.5	11.8
60°-70°	45.4	6.5
70°-80°	20.5	2.9
80°-90°	4.9	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°	268.8	38.4
0°-40°	420.6	60.1
0°-60°	629.2	89.9
0°-90°	700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	700.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	362	362	362	362	362	
5°	358	360	361	358	358	34
15°	336	342	345	338	336	94
25°	296	305	308	300	296	136
35°	239	249	248	240	239	148
45°	162	172	162	158	162	125
55°	91	98	88	88	91	82
65°	44	47	45	44	44	45
75°	18	19	19	19	18	20
85°	4	4	5	5	4	4
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°	362.3	362.3	362.3	362.3	362.3	362.3	362.3	362.3	362.3	362.3	362.3
0.5°	361.8	361.6	362.6	362.5	362.3	362.7	362.8	362.5	362.3	361.6	362.6
1°	361.6	361.1	362.5	362.7	362.3	363.0	363.1	362.6	362.8	361.7	362.6
1.5°	361.4	361.6	361.8	362.0	362.2	362.8	362.8	362.8	362.3	361.8	362.7
2°	360.8	360.8	362.1	361.8	362.0	362.1	362.9	362.5	362.2	361.8	362.3
2.5°	361.1	360.1	361.4	361.4	361.8	362.3	362.9	362.6	362.4	362.3	362.3
3°	360.3	360.0	361.1	361.2	362.1	362.6	362.3	362.7	361.8	361.3	361.8
3.5°	359.3	360.2	360.6	360.5	360.9	361.9	362.4	362.3	361.8	361.1	361.4
4°	358.5	359.4	360.4	360.4	360.5	361.8	362.2	362.1	361.4	361.1	361.5
4.5°	358.8	358.8	359.4	360.2	360.9	362.0	362.0	361.6	361.1	360.5	361.1
5°	358.1	357.9	359.8	360.1	360.1	360.7	361.5	361.9	361.0	360.7	360.7
5.5°	357.2	357.9	358.1	359.1	359.5	361.2	361.4	360.9	360.4	359.9	360.0
6°	356.4	356.3	357.8	358.4	359.1	360.0	360.9	360.8	360.1	359.7	359.9
6.5°	355.7	355.8	356.9	358.1	358.7	359.9	360.2	360.2	359.6	359.1	359.2
7°	355.1	355.0	356.4	357.6	358.3	359.3	360.0	359.8	359.1	358.7	358.2
7.5°	354.2	354.3	355.7	355.9	357.3	358.1	359.3	359.1	358.6	357.4	357.5
8°	353.1	353.0	354.5	355.2	356.9	357.9	358.0	358.9	358.1	357.0	356.8
8.5°	351.7	352.2	353.5	355.0	355.8	357.3	358.0	357.8	357.3	356.8	356.4
9°	351.7	351.5	353.2	354.0	355.4	356.4	357.2	357.4	356.7	355.3	355.6
9.5°	350.1	350.0	352.2	352.5	354.1	355.7	356.3	356.9	355.5	354.6	355.4
10°	348.7	349.5	351.5	352.2	353.3	354.7	355.9	355.8	354.7	354.8	354.1
10.5°	347.8	347.8	349.2	350.6	352.5	353.8	354.6	354.9	354.2	353.2	352.8
11°	346.3	346.6	349.0	349.5	350.8	353.2	353.9	354.4	353.1	352.7	352.1
11.5°	345.4	345.6	347.2	347.8	350.6	351.5	353.2	352.9	352.7	351.2	351.4
12°	344.4	344.8	345.9	347.7	349.5	351.0	351.7	352.1	351.2	350.5	349.8
12.5°	342.9	343.7	344.8	345.8	348.2	349.7	351.2	351.1	350.8	349.0	349.0
13°	341.3	341.7	343.5	344.9	347.0	348.8	349.8	350.1	349.2	348.3	347.9
13.5°	340.3	340.3	342.5	343.9	345.7	347.3	348.6	348.6	348.3	347.5	346.7
14°	338.7	339.0	340.3	342.6	344.1	346.0	347.4	347.8	346.5	345.2	345.1
14.5°	336.8	337.7	339.4	341.4	343.3	345.1	346.7	346.2	345.3	344.2	344.1
15°	336.0	336.0	337.6	339.7	341.9	343.8	345.1	345.5	344.6	343.3	342.5
15.5°	333.7	334.5	335.7	338.4	340.2	342.3	344.2	343.7	343.2	342.2	341.3
16°	332.2	332.3	335.2	335.6	338.9	341.0	342.7	342.6	341.6	340.8	339.4
16.5°	330.8	331.1	333.4	334.6	337.3	339.7	341.0	341.6	340.3	338.9	338.2
17°	328.6	329.4	331.1	332.7	335.7	337.7	339.4	339.6	338.5	336.8	336.3
17.5°	326.9	327.5	329.6	330.6	334.0	336.6	338.1	337.7	337.0	335.7	335.3
18°	325.2	326.2	327.9	329.5	332.1	334.5	336.3	336.7	335.6	333.8	332.8
18.5°	323.4	323.4	325.9	326.9	330.6	333.0	334.5	334.8	334.0	332.6	331.1
19°	321.2	322.0	324.0	325.7	328.8	331.3	332.8	332.8	331.8	330.4	329.5
19.5°	319.2	319.9	322.0	323.7	327.1	329.1	331.3	331.5	330.3	329.1	327.8
20°	317.5	318.1	320.0	321.7	324.9	327.5	329.2	329.4	328.7	327.3	325.9
20.5°	315.1	316.3	318.0	319.4	322.7	325.6	327.4	327.4	326.1	325.1	323.9
21°	312.2	313.4	315.5	317.5	321.2	323.6	325.5	325.6	324.4	322.6	321.6



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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°	307.0	307.8	309.8	311.9	315.3	317.8	319.8	320.2	318.8	317.5	316.1
23°	304.7	305.5	308.2	309.3	313.3	315.6	317.3	318.0	316.8	315.1	314.2
23.5°	302.7	303.5	305.5	307.8	311.1	314.0	315.9	315.7	314.6	313.6	311.9
24°	300.1	300.9	303.2	304.8	309.0	312.1	313.4	314.6	312.4	311.0	309.9
24.5°	298.0	298.8	301.3	303.2	307.1	309.7	311.1	311.6	310.4	309.2	307.2
25°	295.9	296.7	298.8	301.5	304.7	307.8	309.4	309.3	308.0	307.2	306.0
25.5°	293.2	294.2	296.6	298.3	302.9	305.5	307.2	307.0	306.0	304.4	303.0
26°	290.7	291.6	294.1	296.6	299.9	303.0	304.8	305.0	303.3	301.9	301.1
26.5°	288.5	289.7	291.4	294.2	297.9	301.5	302.5	302.3	301.1	300.0	298.9
27°	286.0	286.9	289.2	291.5	295.8	298.5	299.7	299.8	298.8	296.9	296.1
27.5°	283.4	284.5	286.6	289.2	293.1	296.0	297.4	297.4	296.6	294.9	293.7
28°	281.0	281.8	284.4	286.9	290.8	293.4	294.8	295.1	293.0	292.2	291.0
28.5°	278.4	279.2	281.6	283.8	288.3	290.9	292.5	292.2	291.0	289.6	288.1
29°	275.8	276.2	278.7	281.0	285.2	288.4	289.6	289.0	288.0	287.0	285.5
29.5°	272.8	273.9	276.1	278.5	282.7	285.6	286.6	286.5	285.3	283.4	282.8
30°	269.9	270.2	273.5	275.8	280.2	282.7	284.4	283.8	282.8	281.3	280.1
30.5°	266.9	268.1	270.5	273.0	277.4	280.1	280.8	280.9	279.5	278.2	276.9
31°	264.1	265.5	267.5	269.9	274.5	277.0	278.2	278.1	276.5	275.2	273.6
31.5°	260.5	262.4	264.3	266.9	271.4	274.2	275.1	274.6	273.2	272.0	270.9
32°	258.2	259.0	261.5	263.9	268.2	270.6	271.9	271.0	270.2	269.0	267.4
32.5°	254.8	256.4	258.5	260.9	265.6	268.1	268.8	267.6	266.5	265.3	264.1
33°	251.3	252.8	255.2	257.5	262.0	264.4	265.6	264.7	262.7	262.0	260.5
33.5°	248.5	249.6	252.3	254.9	259.2	261.4	261.9	260.9	259.7	258.5	257.6
34°	245.2	246.3	249.0	251.5	255.8	258.3	258.7	257.2	256.3	254.6	253.3
34.5°	242.0	243.0	245.6	247.9	252.6	254.9	255.1	253.6	252.3	251.6	249.3
35°	238.6	239.3	242.2	244.3	249.1	251.6	251.7	249.8	247.9	247.6	246.7
35.5°	234.8	236.1	239.3	241.3	245.9	247.8	247.9	246.2	244.5	243.7	242.5
36°	231.1	232.6	235.1	238.1	242.3	244.4	243.9	242.3	240.7	239.9	238.9
36.5°	227.9	228.7	231.3	234.3	238.8	240.5	240.3	238.4	236.3	235.6	234.5
37°	224.0	225.3	228.4	230.5	235.2	236.8	236.4	234.2	232.9	232.2	230.7
37.5°	220.3	222.0	224.5	226.5	231.5	233.2	232.4	230.2	228.3	227.9	227.0
38°	216.7	218.1	220.8	222.6	228.0	229.0	228.5	226.0	223.9	223.8	222.8
38.5°	212.7	214.4	217.3	219.3	223.8	225.5	224.4	221.7	220.1	219.7	218.9
39°	209.0	210.4	213.2	215.9	220.2	221.0	220.2	217.2	215.7	215.1	214.4
39.5°	205.2	207.1	209.2	212.0	215.9	217.4	216.1	213.0	211.0	211.1	210.0
40°	201.2	203.1	205.7	207.9	212.2	213.4	211.6	208.5	206.8	206.6	205.6
40.5°	197.4	198.8	201.7	203.9	208.3	209.0	207.8	204.2	202.1	202.4	201.6
41°	193.4	195.2	197.9	200.2	204.3	205.1	203.3	199.7	197.7	198.0	197.2
41.5°	189.4	190.8	193.9	196.0	200.1	201.0	199.1	195.0	193.3	193.5	192.5
42°	185.7	187.2	189.9	191.7	196.1	196.7	194.4	190.3	188.3	188.6	188.0
42.5°	181.5	183.2	185.7	188.2	192.1	192.6	190.2	186.2	184.2	184.7	184.0
43°	177.7	179.3	182.2	184.1	188.0	188.2	185.8	181.5	179.9	180.1	179.7
43.5°	173.6	175.3	177.8	180.0	183.8	184.2	181.5	177.0	174.9	175.7	175.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	161.6	163.6	165.6	168.1	171.6	171.4	168.2	163.5	161.7	162.5	162.5
45.5°	157.8	159.8	161.8	163.9	167.4	167.0	164.0	159.1	157.6	158.2	158.2
46°	153.8	155.5	158.1	160.1	163.4	163.1	159.3	154.9	152.9	154.2	154.2
46.5°	150.2	151.9	154.2	156.1	159.3	158.8	155.4	150.5	148.7	150.1	149.7
47°	146.1	148.1	150.2	152.2	155.1	154.8	150.9	146.2	144.8	145.8	145.9
47.5°	142.3	144.0	146.3	148.2	151.3	150.5	146.8	142.1	140.6	141.6	141.9
48°	138.7	140.4	142.5	144.2	147.3	146.5	142.8	138.1	136.5	137.5	137.7
48.5°	134.7	136.4	138.9	140.4	143.5	143.0	138.7	134.1	132.5	133.7	134.0
49°	131.2	132.8	134.9	136.9	139.9	138.5	134.7	130.2	128.6	129.7	130.4
49.5°	127.4	129.1	131.2	132.9	135.8	134.9	130.8	126.1	124.7	125.9	126.5
50°	124.1	125.6	127.4	129.1	132.1	131.0	126.9	122.7	121.2	122.2	122.7
50.5°	120.4	121.8	124.1	125.4	128.2	127.3	123.1	118.7	117.3	118.6	119.3
51°	117.0	118.4	120.3	121.8	124.8	123.6	119.6	115.1	113.8	115.0	115.5
51.5°	113.6	115.1	116.8	118.3	121.2	120.0	116.0	111.6	110.3	111.3	112.1
52°	110.2	111.5	113.3	114.8	117.6	116.4	112.3	108.4	107.0	108.1	108.8
52.5°	106.8	108.1	110.0	111.3	114.0	112.8	108.8	104.9	103.8	104.7	105.5
53°	103.3	104.9	106.7	107.9	110.7	109.5	105.4	101.7	100.5	101.3	102.2
53.5°	100.3	101.8	103.5	104.7	107.2	106.2	102.2	98.5	97.3	98.2	99.0
54°	97.1	98.5	99.9	101.3	104.0	102.7	98.8	95.5	94.4	95.1	95.9
54.5°	94.2	95.4	96.9	98.1	100.8	99.5	95.8	92.4	91.4	92.0	93.0
55°	91.2	92.5	93.9	95.3	97.6	96.7	92.8	89.7	88.5	89.2	90.0
55.5°	88.2	89.6	90.7	92.1	94.5	93.3	89.9	86.7	85.6	86.4	87.2
56°	85.5	86.6	88.0	89.2	91.4	90.3	87.0	84.0	83.0	83.5	84.5
56.5°	82.6	83.9	85.1	86.1	88.4	87.3	84.2	81.3	80.3	80.9	81.6
57°	79.9	81.1	82.2	83.3	85.5	84.5	81.4	78.8	77.6	78.2	79.0
57.5°	77.4	78.3	79.6	80.6	82.7	81.6	78.8	76.2	75.2	75.8	76.4
58°	74.7	75.8	76.9	77.9	79.8	79.0	76.3	73.7	72.6	73.2	73.9
58.5°	72.3	73.1	74.2	75.2	77.1	76.4	73.7	71.5	70.5	70.8	71.7
59°	69.8	70.6	71.5	72.5	74.5	73.6	71.2	69.0	68.1	68.5	69.2
59.5°	67.1	68.1	69.2	70.0	72.0	71.1	68.8	66.7	65.7	66.3	66.9
60°	64.8	65.7	66.8	67.5	69.4	68.7	66.4	64.5	63.7	64.0	64.6
60.5°	62.6	63.4	64.3	65.1	66.9	66.1	64.1	62.4	61.6	61.8	62.4
61°	60.2	61.0	61.9	62.9	64.6	63.9	62.0	60.2	59.5	59.7	60.4
61.5°	58.2	58.9	59.6	60.4	62.3	61.5	59.8	58.3	57.6	57.7	58.4
62°	56.1	56.6	57.5	58.2	59.9	59.4	57.7	56.3	55.6	55.7	56.5
62.5°	54.0	54.5	55.2	56.0	57.7	57.2	55.7	54.4	53.7	53.7	54.5
63°	51.8	52.5	53.2	53.8	55.5	55.0	53.7	52.4	51.7	51.8	52.5
63.5°	49.9	50.4	51.1	51.8	53.4	52.9	51.6	50.5	50.0	50.1	50.6
64°	48.0	48.4	49.1	49.8	51.3	50.8	49.8	48.8	48.3	48.3	48.7
64.5°	46.1	46.6	47.2	47.7	49.2	48.8	47.9	47.0	46.5	46.6	47.0
65°	44.3	44.7	45.4	45.7	47.1	46.9	46.1	45.3	44.8	44.9	45.3
65.5°	42.5	42.9	43.4	43.9	45.3	45.1	44.4	43.7	43.2	43.2	43.6
66°	40.7	41.1	41.7	42.1	43.4	43.2	42.7	42.0	41.6	41.6	42.0



TEST NUMBER: P639473

CATALOG NUMBER: RL4LS9FSD2W1EWH -600LM -5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	36.0	36.2	36.6	37.0	38.1	38.0	37.8	37.3	37.0	37.1	37.3
68°	34.4	34.7	35.0	35.4	36.4	36.4	36.3	35.8	35.6	35.7	35.8
68.5°	33.0	33.2	33.6	33.8	34.8	34.8	34.8	34.5	34.2	34.3	34.4
69°	31.6	31.8	32.1	32.3	33.3	33.3	33.3	33.1	32.9	32.9	33.1
69.5°	30.3	30.4	30.6	30.9	31.8	31.9	31.9	31.7	31.5	31.6	31.7
70°	28.9	29.1	29.2	29.4	30.3	30.4	30.5	30.4	30.2	30.4	30.4
70.5°	27.7	27.8	28.0	28.2	28.9	29.1	29.3	29.2	29.0	29.1	29.2
71°	26.5	26.6	26.7	26.8	27.6	27.8	28.0	27.9	27.7	27.9	28.0
71.5°	25.3	25.4	25.5	25.5	26.3	26.5	26.7	26.7	26.6	26.7	26.8
72°	24.6	24.4	24.4	24.2	25.1	25.2	25.5	25.5	25.5	25.6	25.7
72.5°	23.5	23.3	23.3	23.2	23.9	24.1	24.4	24.5	24.4	24.5	24.5
73°	22.4	22.3	22.3	22.2	22.7	23.0	23.3	23.3	23.3	23.4	23.5
73.5°	21.3	21.2	21.2	21.1	21.6	21.8	22.2	22.3	22.3	22.4	22.4
74°	20.2	20.1	20.1	20.1	20.6	20.8	21.1	21.3	21.3	21.3	21.4
74.5°	19.2	19.2	19.1	19.1	19.6	19.8	20.1	20.3	20.3	20.3	20.5
75°	18.3	18.3	18.2	18.1	18.6	18.9	19.2	19.3	19.3	19.4	19.5
75.5°	17.5	17.4	17.3	17.3	17.8	18.0	18.3	18.4	18.4	18.5	18.6
76°	16.6	16.6	16.5	16.5	17.0	17.1	17.4	17.5	17.5	17.6	17.7
76.5°	15.9	15.8	15.7	15.7	16.2	16.3	16.6	16.6	16.7	16.8	16.9
77°	15.1	15.0	14.9	14.9	15.4	15.6	15.8	15.9	15.9	16.1	16.1
77.5°	14.4	14.2	14.1	14.1	14.6	14.8	15.1	15.1	15.2	15.4	15.4
78°	13.5	13.4	13.4	13.4	13.8	14.0	14.3	14.4	14.4	14.6	14.7
78.5°	12.7	12.7	12.6	12.5	13.0	13.2	13.5	13.6	13.7	13.9	13.9
79°	11.9	11.9	11.7	11.7	12.2	12.4	12.7	12.8	12.9	13.1	13.2
79.5°	11.2	11.1	11.0	10.9	11.4	11.7	11.9	12.1	12.2	12.4	12.4
80°	10.5	10.3	10.2	10.2	10.6	10.9	11.2	11.4	11.4	11.7	11.7
80.5°	9.7	9.6	9.5	9.5	9.9	10.1	10.4	10.6	10.7	10.9	11.0
81°	9.0	8.9	8.7	8.7	9.2	9.4	9.7	9.9	10.0	10.2	10.2
81.5°	8.2	8.1	8.0	7.9	8.4	8.7	9.0	9.2	9.2	9.5	9.5
82°	7.5	7.5	7.3	7.3	7.7	7.9	8.2	8.4	8.5	8.7	8.8
82.5°	6.9	6.8	6.6	6.5	7.0	7.3	7.5	7.7	7.8	8.0	8.1
83°	6.1	6.0	5.9	5.9	6.3	6.5	6.9	7.0	7.2	7.3	7.5
83.5°	5.5	5.4	5.3	5.2	5.7	5.9	6.3	6.4	6.5	6.8	6.8
84°	4.9	4.8	4.6	4.6	5.0	5.3	5.5	5.8	5.9	6.1	6.2
84.5°	4.3	4.1	4.0	3.9	4.3	4.6	4.9	5.1	5.3	5.5	5.5
85°	3.6	3.5	3.3	3.3	3.7	4.0	4.3	4.5	4.6	4.8	4.9
85.5°	3.1	2.9	2.8	2.8	3.1	3.3	3.6	3.8	4.0	4.1	4.3
86°	2.5	2.3	2.3	2.3	2.6	2.8	3.1	3.2	3.3	3.5	3.6
86.5°	2.0	1.8	1.8	1.7	2.0	2.2	2.5	2.7	2.8	2.9	3.0
87°	1.5	1.4	1.4	1.2	1.4	1.6	1.9	2.1	2.3	2.4	2.5
87.5°	1.0	0.9	0.9	0.7	1.0	1.1	1.4	1.6	1.7	1.8	1.9
88°	0.5	0.4	0.4	0.4	0.6	0.7	1.0	1.1	1.2	1.4	1.4
88.5°	0.2	0.3	0.2	0.1	0.2	0.4	0.6	0.7	0.8	0.9	1.0



TEST NUMBER: P639473

CATALOG NUMBER: RL4LS9FSD2W1EWH -600LM -5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1



TEST NUMBER: P639473

CATALOG NUMBER: RL4LS9FSD2W1EWH -600LM -5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	362.3	362.3	362.3	362.3	362.3	362.3
0.5°	362.0	362.3	362.6	362.5	362.1	361.8
1°	362.3	361.9	361.8	362.0	362.3	361.6
1.5°	363.1	361.4	362.1	362.2	362.1	361.4
2°	361.6	361.5	361.7	361.3	361.3	360.8
2.5°	362.5	361.1	361.1	361.2	361.3	361.1
3°	361.8	361.2	360.8	360.8	360.9	360.3
3.5°	360.9	361.0	360.6	360.6	360.1	359.3
4°	360.9	359.9	360.1	360.0	359.5	358.5
4.5°	360.7	359.9	359.6	359.5	358.7	358.8
5°	360.0	358.4	358.8	358.7	358.4	358.1
5.5°	359.3	358.4	357.9	358.1	357.6	357.2
6°	359.1	357.9	357.6	357.1	356.9	356.4
6.5°	358.4	357.2	357.0	356.6	356.7	355.7
7°	357.9	356.2	355.7	356.2	355.1	355.1
7.5°	356.9	355.5	355.2	354.8	354.7	354.2
8°	356.2	354.7	354.2	354.1	353.6	353.1
8.5°	355.7	354.1	353.3	352.6	352.3	351.7
9°	354.0	352.7	352.4	351.7	351.9	351.7
9.5°	353.0	352.0	351.2	350.8	350.4	350.1
10°	352.8	350.8	350.5	350.0	349.1	348.7
10.5°	352.2	350.0	349.2	348.5	347.6	347.8
11°	351.6	348.7	348.1	347.6	347.0	346.3
11.5°	349.5	348.8	347.0	346.6	345.8	345.4
12°	349.0	346.1	345.8	345.2	344.3	344.4
12.5°	346.9	345.6	344.2	343.6	343.0	342.9
13°	346.6	344.1	342.6	342.3	342.2	341.3
13.5°	345.6	343.4	341.7	341.2	340.2	340.3
14°	343.9	341.4	340.6	339.7	338.9	338.7
14.5°	342.2	340.2	338.9	338.5	337.7	336.8
15°	341.5	338.4	336.9	336.6	335.7	336.0
15.5°	339.4	336.7	335.7	334.5	333.9	333.7
16°	338.0	335.3	334.2	333.3	332.8	332.2
16.5°	336.4	333.5	332.3	331.7	330.9	330.8
17°	335.0	332.3	330.9	329.6	328.9	328.6
17.5°	333.2	330.4	329.4	327.9	327.3	326.9
18°	331.5	328.4	327.1	326.2	325.7	325.2
18.5°	330.1	326.9	325.5	324.2	323.3	323.4
19°	328.2	324.7	323.4	322.3	321.2	321.2
19.5°	325.7	322.9	321.5	320.2	319.6	319.2
20°	324.3	320.5	319.9	318.0	317.5	317.5
20.5°	322.0	319.1	317.5	316.3	315.6	315.1
21°	320.2	317.3	315.6	314.2	313.4	312.2



TEST NUMBER: P639473

CATALOG NUMBER: RL4LS9FSD2W1EWH -600LM -5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	314.9	310.7	309.2	308.2	307.0	307.0
23°	312.1	308.4	306.9	305.6	305.0	304.7
23.5°	309.9	306.7	304.8	303.1	302.7	302.7
24°	307.4	304.5	303.0	301.1	300.4	300.1
24.5°	306.0	302.1	300.7	298.8	298.1	298.0
25°	303.0	300.1	298.1	297.0	296.3	295.9
25.5°	300.6	297.4	296.1	294.0	293.5	293.2
26°	299.1	295.1	293.7	291.9	290.8	290.7
26.5°	296.0	293.0	291.2	289.2	288.8	288.5
27°	293.8	290.4	288.5	287.0	286.0	286.0
27.5°	291.6	287.5	285.6	284.3	283.6	283.4
28°	288.7	284.8	282.8	281.9	281.1	281.0
28.5°	286.3	282.2	280.4	278.9	278.2	278.4
29°	282.8	279.3	277.3	276.2	275.7	275.8
29.5°	280.4	276.9	274.9	273.1	272.7	272.8
30°	277.7	273.7	272.1	270.5	270.3	269.9
30.5°	274.7	270.9	268.9	267.5	267.1	266.9
31°	271.8	267.3	265.8	264.4	263.8	264.1
31.5°	268.9	264.5	262.9	261.4	260.8	260.5
32°	264.9	261.2	259.6	258.2	257.6	258.2
32.5°	261.5	257.6	256.2	254.9	254.8	254.8
33°	258.4	254.4	253.0	251.5	251.3	251.3
33.5°	254.5	250.9	249.4	248.4	248.2	248.5
34°	251.8	247.4	245.7	244.8	244.9	245.2
34.5°	247.7	244.0	242.2	241.4	241.0	242.0
35°	244.0	240.0	238.5	237.8	237.7	238.6
35.5°	240.4	236.3	234.8	233.9	234.3	234.8
36°	236.3	232.2	231.2	230.6	230.7	231.1
36.5°	232.9	228.6	227.2	226.9	227.0	227.9
37°	228.5	224.5	223.4	222.8	223.1	224.0
37.5°	224.8	220.6	219.5	219.4	219.6	220.3
38°	220.7	216.4	215.5	215.4	215.7	216.7
38.5°	216.6	212.2	211.7	211.3	211.8	212.7
39°	212.2	208.3	207.3	207.4	208.4	209.0
39.5°	208.2	204.1	203.6	203.7	204.2	205.2
40°	204.1	199.7	199.1	199.4	200.2	201.2
40.5°	199.5	195.7	195.3	195.6	196.7	197.4
41°	195.4	191.3	191.1	191.4	192.3	193.4
41.5°	191.1	187.2	186.9	187.4	188.2	189.4
42°	186.6	183.4	182.9	183.6	184.3	185.7
42.5°	182.2	178.8	178.8	179.5	180.5	181.5
43°	177.8	174.6	174.6	175.1	176.3	177.7
43.5°	173.6	170.4	170.5	171.1	172.4	173.6

TEST NUMBER: P639473

CATALOG NUMBER: RL4LS9FSD2W1EWH -600LM -5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	160.8	158.1	158.4	158.9	160.3	161.6
45.5°	156.5	153.9	154.3	155.3	156.5	157.8
46°	152.7	150.1	150.5	151.1	152.4	153.8
46.5°	148.7	145.9	146.8	147.4	148.6	150.2
47°	144.6	142.1	142.6	143.6	144.7	146.1
47.5°	140.6	138.2	138.7	139.6	141.1	142.3
48°	136.9	134.5	135.2	135.7	137.2	138.7
48.5°	133.1	130.7	131.3	132.2	133.4	134.7
49°	129.4	127.1	127.8	128.6	129.7	131.2
49.5°	125.7	123.5	124.0	124.8	126.1	127.4
50°	121.9	119.8	120.4	121.4	122.6	124.1
50.5°	118.4	116.5	117.0	117.6	118.9	120.4
51°	115.0	113.0	113.6	114.4	115.5	117.0
51.5°	111.6	109.9	110.4	111.0	112.2	113.6
52°	108.4	106.4	106.9	107.7	108.8	110.2
52.5°	104.9	103.2	103.8	104.5	105.3	106.8
53°	101.7	100.1	100.7	101.2	102.2	103.3
53.5°	98.8	97.1	97.5	98.2	99.0	100.3
54°	95.8	93.9	94.5	95.0	96.1	97.1
54.5°	92.9	91.2	91.6	92.0	92.9	94.2
55°	89.7	88.4	88.6	89.2	89.9	91.2
55.5°	87.1	85.6	85.9	86.2	87.2	88.2
56°	84.5	82.9	83.0	83.5	84.4	85.5
56.5°	81.6	80.2	80.5	80.8	81.4	82.6
57°	79.1	77.9	77.9	78.1	78.9	79.9
57.5°	76.7	75.2	75.3	75.6	76.2	77.4
58°	74.2	72.8	72.8	73.2	73.7	74.7
58.5°	71.8	70.4	70.4	70.6	71.1	72.3
59°	69.4	68.0	68.2	68.1	68.8	69.8
59.5°	67.1	65.8	65.8	65.8	66.3	67.1
60°	64.9	63.5	63.6	63.6	64.1	64.8
60.5°	62.8	61.4	61.2	61.4	61.9	62.6
61°	60.7	59.3	59.3	59.2	59.6	60.2
61.5°	58.7	57.3	57.2	57.1	57.5	58.2
62°	56.7	55.3	55.0	55.1	55.4	56.1
62.5°	54.7	53.2	53.1	53.0	53.5	54.0
63°	52.7	51.4	51.2	51.1	51.4	51.8
63.5°	50.7	49.6	49.3	49.2	49.4	49.9
64°	48.9	47.7	47.5	47.4	47.6	48.0
64.5°	47.1	46.0	45.8	45.6	45.8	46.1
65°	45.4	44.3	44.0	43.9	43.9	44.3
65.5°	43.7	42.7	42.3	42.2	42.2	42.5
66°	42.2	41.0	40.7	40.5	40.5	40.7



TEST NUMBER: P639473

CATALOG NUMBER: RL4LS9FSD2W1EWH -600LM -5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	37.5	36.4	36.1	35.9	35.8	36.0
68°	35.9	35.1	34.7	34.4	34.3	34.4
68.5°	34.5	33.6	33.3	33.0	32.8	33.0
69°	33.2	32.3	31.9	31.6	31.6	31.6
69.5°	31.9	31.0	30.6	30.3	30.1	30.3
70°	30.5	29.7	29.4	29.1	28.9	28.9
70.5°	29.3	28.4	28.2	27.8	27.7	27.7
71°	28.1	27.3	26.9	26.7	26.5	26.5
71.5°	26.8	26.1	25.8	25.5	25.4	25.3
72°	25.7	25.0	24.7	24.2	24.5	24.6
72.5°	24.6	24.0	23.7	23.3	23.4	23.5
73°	23.5	23.0	22.7	22.3	22.3	22.4
73.5°	22.5	22.0	21.7	21.3	21.3	21.3
74°	21.5	21.0	20.7	20.3	20.2	20.2
74.5°	20.5	20.0	19.7	19.4	19.3	19.2
75°	19.6	19.1	18.8	18.6	18.3	18.3
75.5°	18.7	18.2	18.0	17.7	17.5	17.5
76°	17.8	17.3	17.1	16.9	16.7	16.6
76.5°	17.0	16.6	16.4	16.1	16.0	15.9
77°	16.2	15.8	15.6	15.4	15.2	15.1
77.5°	15.5	15.1	14.9	14.6	14.5	14.4
78°	14.7	14.3	14.1	13.9	13.7	13.5
78.5°	14.0	13.6	13.4	13.1	12.9	12.7
79°	13.2	12.8	12.6	12.3	12.1	11.9
79.5°	12.5	12.0	11.8	11.6	11.4	11.2
80°	11.7	11.3	11.1	10.8	10.6	10.5
80.5°	11.0	10.6	10.4	10.1	9.9	9.7
81°	10.2	9.9	9.6	9.4	9.1	9.0
81.5°	9.6	9.2	9.0	8.7	8.4	8.2
82°	8.9	8.5	8.2	7.9	7.7	7.5
82.5°	8.2	7.8	7.5	7.3	7.0	6.9
83°	7.5	7.1	6.9	6.6	6.3	6.1
83.5°	6.8	6.5	6.2	5.9	5.6	5.5
84°	6.2	5.8	5.5	5.3	5.0	4.9
84.5°	5.5	5.1	4.9	4.7	4.4	4.3
85°	4.9	4.6	4.3	4.1	3.8	3.6
85.5°	4.3	3.9	3.6	3.4	3.1	3.1
86°	3.6	3.3	3.1	2.8	2.6	2.5
86.5°	3.1	2.8	2.6	2.3	2.1	2.0
87°	2.6	2.3	2.1	1.8	1.6	1.5
87.5°	2.0	1.8	1.6	1.4	1.1	1.0
88°	1.4	1.3	1.1	0.9	0.6	0.5
88.5°	1.0	0.8	0.6	0.4	0.2	0.2



TEST NUMBER: P639473

CATALOG NUMBER: RL4LS9FSD2W1EWH -600LM -5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.2	0.2	0.1	0.1	0.1	0.1

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
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°	311.7	311.8	314.2	316.3	319.3	322.0	323.3	323.5	322.6	321.0	320.0
22°	308.7	309.7	312.0	314.0	317.5	319.6	321.7	321.5	321.1	319.8	317.8



44°	169.6	171.6	174.1	176.2	179.5	179.5	177.0	172.3	170.6	171.2	171.4
44.5°	165.9	167.3	170.1	172.2	175.5	175.7	172.6	167.9	165.9	167.1	166.5



66.5°	39.1	39.5	40.0	40.4	41.6	41.4	41.0	40.5	40.1	40.0	40.3
67°	37.5	37.8	38.2	38.6	39.8	39.7	39.3	38.8	38.5	38.7	38.8



89°	0.2	0.2	0.1	0.1	0.1	0.1	0.3	0.3	0.4	0.5	0.6
89.5°	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2

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21.5°	318.3	315.0	313.6	312.1	311.5	311.7
22°	315.6	313.0	311.4	309.7	309.2	308.7



44°	169.4	166.4	166.3	167.2	168.4	169.6
44.5°	165.2	162.2	162.5	163.2	164.3	165.9



66.5°	40.5	39.5	39.1	38.9	38.9	39.1
67°	39.0	38.0	37.5	37.3	37.3	37.5



89°	0.6	0.4	0.2	0.1	0.1	0.2
89.5°	0.3	0.2	0.1	0.1	0.1	0.1

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(END OF REPORT)