

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: P639469

Luminaire Tested: RL4LS9FSD2W1EWH -600LM -2700K

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-2019
Report Number: P639469
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 -2700K
Description: 4IN RETROFIT, SELECTABLE LUMEN AND CCT, MATTE WHITE BAFFLE
Light Source: (1) SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

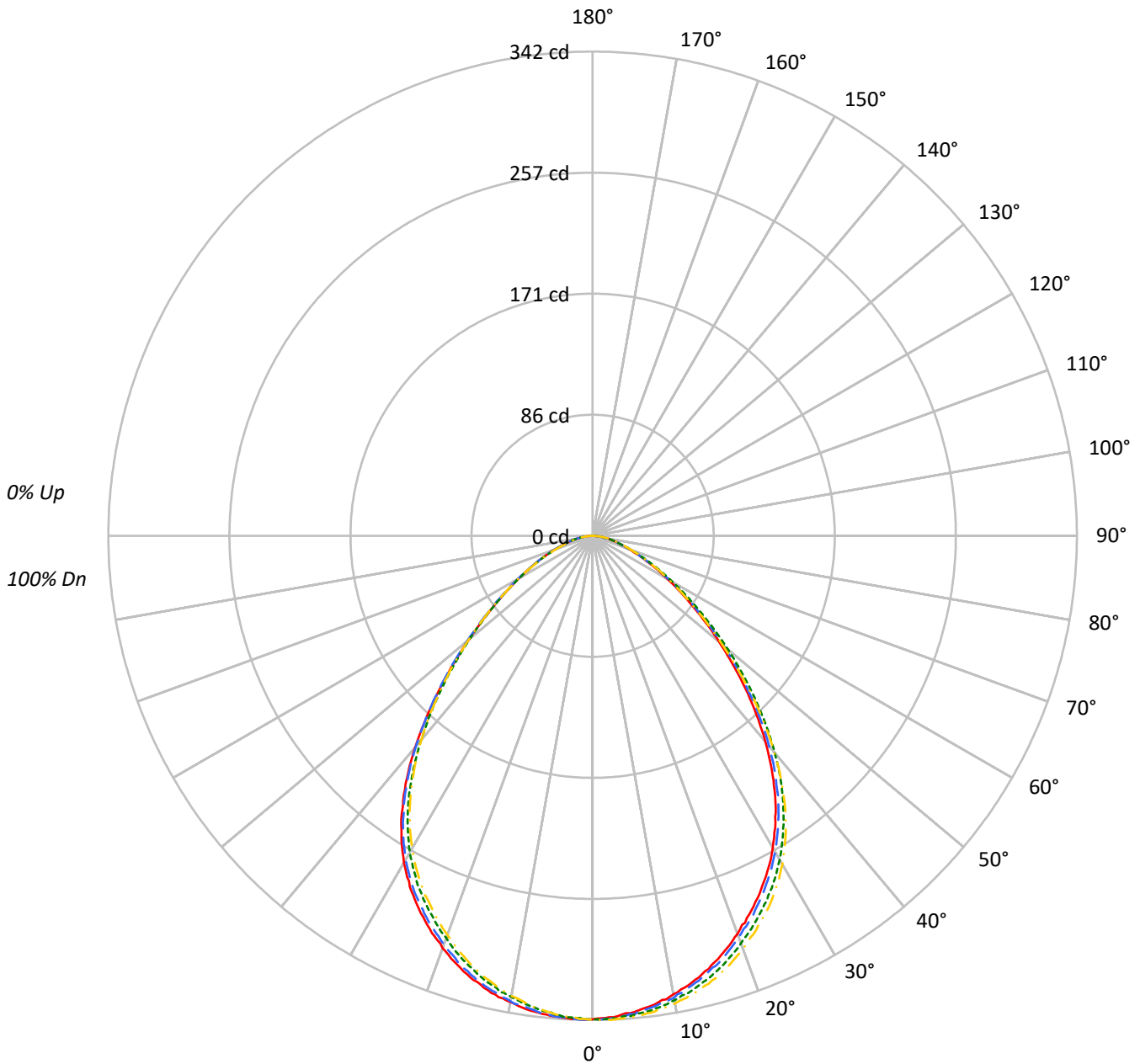
Lumens per Lamp: N/A
Luminaire Lumens: 660.0 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	42219	42219	42219	42219
5°	41897	42132	42232	41921
10°	41264	41804	41979	41503
15°	40535	41239	41572	40817
20°	39365	40299	40759	39747
25°	38047	39179	39602	38592
30°	36320	37705	38061	36834
35°	33933	35426	35275	34144
40°	30606	32284	31461	30380
45°	26637	28280	26637	26043
50°	22496	23958	21958	21727
55°	18509	19824	17992	17949
60°	15103	16166	14856	14806
65°	12224	12985	12341	12224
70°	9865	10335	10299	10118
75°	8261	8404	8691	8595
80°	7046	7117	7687	7616
85°	4821	4963	6239	6098

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 28280 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.2	4.9
10°-20°	90.3	13.7
20°-30°	131.0	19.8
30°-40°	143.1	21.7
40°-50°	118.9	18.0
50°-60°	77.8	11.8
60°-70°	42.8	6.5
70°-80°	19.3	2.9
80°-90°	4.6	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°	253.4	38.4
0°-40°	396.5	60.1
0°-60°	593.3	89.9
0°-90°	660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	660.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	342	342	342	342	342	
5°	338	340	340	338	338	32
15°	317	322	325	319	317	89
25°	279	287	290	283	279	128
35°	225	235	234	226	225	140
45°	152	162	152	149	152	117
55°	86	92	84	83	86	78
65°	42	44	42	42	42	42
75°	17	18	18	18	17	19
85°	3	4	4	4	3	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°	341.6	341.6	341.6	341.6	341.6	341.6	341.6	341.6	341.6	341.6	341.6
0.5°	341.1	341.0	341.9	341.8	341.6	342.0	342.0	341.8	341.6	341.0	341.9
1°	340.9	340.4	341.8	342.0	341.6	342.2	342.3	341.9	342.0	341.0	341.9
1.5°	340.8	340.9	341.2	341.3	341.5	342.1	342.0	342.0	341.6	341.1	342.0
2°	340.2	340.2	341.4	341.1	341.3	341.4	342.2	341.8	341.5	341.1	341.6
2.5°	340.4	339.6	340.8	340.8	341.2	341.6	342.2	341.8	341.7	341.6	341.6
3°	339.7	339.4	340.4	340.6	341.4	341.9	341.6	342.0	341.1	340.7	341.2
3.5°	338.8	339.6	340.0	339.9	340.3	341.2	341.7	341.6	341.1	340.5	340.8
4°	338.0	338.8	339.8	339.8	339.9	341.1	341.5	341.4	340.8	340.4	340.8
4.5°	338.3	338.3	338.9	339.6	340.3	341.3	341.3	341.0	340.5	339.9	340.5
5°	337.7	337.5	339.2	339.6	339.6	340.1	340.8	341.2	340.4	340.1	340.1
5.5°	336.8	337.4	337.7	338.6	339.0	340.6	340.8	340.3	339.8	339.3	339.4
6°	336.0	335.9	337.3	337.9	338.6	339.4	340.3	340.2	339.6	339.2	339.4
6.5°	335.3	335.5	336.5	337.6	338.2	339.4	339.6	339.6	339.0	338.6	338.7
7°	334.8	334.7	336.0	337.1	337.8	338.8	339.4	339.2	338.6	338.2	337.7
7.5°	334.0	334.1	335.4	335.5	336.9	337.7	338.8	338.6	338.2	336.9	337.1
8°	332.9	332.9	334.3	334.9	336.5	337.5	337.5	338.4	337.7	336.6	336.4
8.5°	331.6	332.1	333.3	334.7	335.5	336.9	337.5	337.3	336.9	336.4	336.1
9°	331.6	331.4	333.1	333.7	335.1	336.0	336.8	337.0	336.3	335.0	335.3
9.5°	330.1	330.0	332.1	332.3	333.9	335.3	335.9	336.5	335.2	334.3	335.1
10°	328.8	329.6	331.4	332.1	333.1	334.5	335.5	335.5	334.5	334.5	333.9
10.5°	328.0	328.0	329.2	330.6	332.4	333.6	334.3	334.6	333.9	333.1	332.7
11°	326.5	326.8	329.0	329.6	330.8	333.1	333.7	334.2	332.9	332.5	332.0
11.5°	325.7	325.8	327.4	327.9	330.6	331.4	333.1	332.7	332.6	331.1	331.3
12°	324.7	325.1	326.2	327.8	329.5	331.0	331.6	332.0	331.2	330.5	329.8
12.5°	323.3	324.1	325.1	326.1	328.3	329.7	331.2	331.0	330.7	329.1	329.1
13°	321.8	322.2	323.9	325.1	327.2	328.8	329.8	330.1	329.2	328.4	328.0
13.5°	320.9	320.9	322.9	324.3	325.9	327.4	328.7	328.7	328.4	327.6	326.9
14°	319.3	319.6	320.9	323.1	324.5	326.2	327.6	328.0	326.7	325.5	325.3
14.5°	317.6	318.4	320.0	321.9	323.7	325.4	326.9	326.4	325.5	324.5	324.5
15°	316.8	316.8	318.3	320.3	322.3	324.1	325.3	325.7	324.9	323.7	322.9
15.5°	314.6	315.4	316.5	319.0	320.7	322.7	324.5	324.1	323.6	322.7	321.8
16°	313.2	313.3	316.0	316.4	319.5	321.5	323.1	323.1	322.1	321.3	320.0
16.5°	311.9	312.1	314.4	315.5	318.0	320.3	321.5	322.1	320.9	319.5	318.9
17°	309.9	310.6	312.2	313.7	316.6	318.4	320.0	320.2	319.2	317.6	317.1
17.5°	308.2	308.8	310.8	311.7	314.9	317.4	318.8	318.4	317.7	316.5	316.1
18°	306.6	307.5	309.1	310.7	313.1	315.4	317.1	317.5	316.4	314.8	313.7
18.5°	304.9	304.9	307.2	308.2	311.7	313.9	315.4	315.7	314.9	313.6	312.1
19°	302.9	303.6	305.5	307.0	310.0	312.4	313.8	313.8	312.9	311.5	310.7
19.5°	300.9	301.6	303.6	305.2	308.4	310.3	312.3	312.5	311.4	310.3	309.1
20°	299.3	299.9	301.7	303.4	306.4	308.8	310.4	310.5	309.9	308.6	307.2
20.5°	297.1	298.3	299.9	301.1	304.3	307.0	308.7	308.7	307.4	306.5	305.4
21°	294.4	295.4	297.5	299.4	302.8	305.1	306.9	307.0	305.9	304.2	303.2



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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°	289.4	290.2	292.1	294.0	297.3	299.6	301.5	301.9	300.5	299.4	298.0
23°	287.3	288.1	290.6	291.6	295.4	297.6	299.1	299.8	298.7	297.1	296.3
23.5°	285.4	286.1	288.0	290.2	293.4	296.0	297.9	297.7	296.7	295.6	294.1
24°	283.0	283.7	285.9	287.4	291.4	294.3	295.5	296.6	294.5	293.2	292.2
24.5°	281.0	281.7	284.0	285.9	289.5	292.0	293.4	293.8	292.7	291.5	289.7
25°	279.0	279.8	281.7	284.3	287.3	290.2	291.8	291.6	290.4	289.7	288.5
25.5°	276.4	277.3	279.7	281.2	285.6	288.1	289.7	289.4	288.5	287.0	285.7
26°	274.1	274.9	277.3	279.6	282.8	285.7	287.4	287.6	286.0	284.7	283.8
26.5°	272.0	273.2	274.7	277.4	280.8	284.3	285.3	285.1	283.8	282.8	281.8
27°	269.7	270.5	272.7	274.8	278.9	281.4	282.6	282.6	281.8	280.0	279.2
27.5°	267.2	268.2	270.2	272.7	276.3	279.1	280.4	280.4	279.7	278.1	276.9
28°	264.9	265.7	268.2	270.5	274.2	276.7	277.9	278.2	276.3	275.5	274.4
28.5°	262.5	263.3	265.5	267.6	271.8	274.3	275.8	275.5	274.4	273.1	271.6
29°	260.0	260.5	262.8	264.9	268.9	271.9	273.1	272.5	271.6	270.6	269.2
29.5°	257.2	258.2	260.3	262.6	266.6	269.2	270.2	270.2	269.0	267.2	266.6
30°	254.5	254.8	257.8	260.0	264.2	266.6	268.2	267.6	266.7	265.2	264.1
30.5°	251.6	252.7	255.1	257.4	261.5	264.1	264.7	264.9	263.5	262.3	261.1
31°	249.0	250.3	252.2	254.5	258.8	261.2	262.3	262.2	260.7	259.4	258.0
31.5°	245.6	247.4	249.2	251.7	255.9	258.5	259.4	258.9	257.6	256.5	255.4
32°	243.4	244.2	246.6	248.8	252.9	255.2	256.4	255.6	254.8	253.6	252.1
32.5°	240.2	241.7	243.7	246.0	250.4	252.8	253.5	252.3	251.3	250.1	249.0
33°	236.9	238.4	240.6	242.8	247.0	249.3	250.5	249.6	247.7	247.0	245.6
33.5°	234.3	235.3	237.9	240.3	244.4	246.4	247.0	246.0	244.9	243.8	242.9
34°	231.2	232.2	234.8	237.1	241.1	243.6	243.9	242.5	241.6	240.1	238.9
34.5°	228.1	229.1	231.6	233.7	238.1	240.3	240.5	239.1	237.9	237.3	235.0
35°	224.9	225.6	228.3	230.4	234.8	237.3	237.3	235.5	233.8	233.4	232.6
35.5°	221.4	222.6	225.6	227.5	231.8	233.6	233.8	232.2	230.5	229.8	228.7
36°	217.9	219.3	221.7	224.5	228.5	230.4	229.9	228.5	226.9	226.2	225.3
36.5°	214.9	215.7	218.1	220.9	225.1	226.7	226.5	224.8	222.8	222.2	221.1
37°	211.2	212.5	215.3	217.3	221.8	223.3	222.9	220.8	219.6	219.0	217.5
37.5°	207.8	209.3	211.7	213.5	218.3	219.9	219.2	217.1	215.3	214.9	214.0
38°	204.3	205.7	208.2	209.9	215.0	215.9	215.4	213.1	211.1	211.0	210.0
38.5°	200.5	202.2	204.9	206.8	211.0	212.6	211.6	209.0	207.6	207.2	206.3
39°	197.1	198.4	201.0	203.6	207.6	208.4	207.6	204.8	203.4	202.8	202.1
39.5°	193.5	195.3	197.2	199.8	203.6	204.9	203.7	200.9	198.9	199.0	198.0
40°	189.7	191.5	193.9	196.0	200.1	201.2	199.5	196.6	195.0	194.8	193.9
40.5°	186.1	187.4	190.2	192.2	196.4	197.1	195.9	192.5	190.5	190.8	190.1
41°	182.3	184.1	186.6	188.7	192.6	193.3	191.7	188.2	186.4	186.6	186.0
41.5°	178.6	179.9	182.8	184.8	188.7	189.5	187.7	183.8	182.3	182.4	181.5
42°	175.0	176.5	179.1	180.7	184.9	185.4	183.3	179.5	177.5	177.8	177.3
42.5°	171.1	172.8	175.1	177.5	181.1	181.6	179.3	175.6	173.7	174.1	173.5
43°	167.5	169.1	171.8	173.6	177.3	177.5	175.2	171.2	169.6	169.8	169.5
43.5°	163.7	165.3	167.6	169.7	173.3	173.7	171.1	166.9	164.9	165.7	165.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	152.4	154.3	156.1	158.5	161.8	161.6	158.6	154.1	152.4	153.2	153.2
45.5°	148.8	150.6	152.6	154.5	157.8	157.4	154.6	150.0	148.6	149.2	149.2
46°	145.0	146.6	149.1	150.9	154.1	153.8	150.2	146.0	144.2	145.3	145.4
46.5°	141.6	143.2	145.3	147.2	150.2	149.7	146.5	141.9	140.2	141.5	141.1
47°	137.8	139.6	141.7	143.5	146.3	145.9	142.3	137.8	136.6	137.4	137.6
47.5°	134.2	135.8	137.9	139.7	142.7	141.9	138.4	133.9	132.5	133.5	133.7
48°	130.8	132.3	134.3	136.0	138.9	138.1	134.6	130.2	128.7	129.7	129.9
48.5°	127.0	128.6	130.9	132.3	135.3	134.8	130.7	126.4	124.9	126.0	126.4
49°	123.7	125.2	127.2	129.1	131.9	130.6	127.0	122.8	121.3	122.3	123.0
49.5°	120.1	121.7	123.7	125.3	128.0	127.2	123.3	118.9	117.6	118.7	119.3
50°	117.0	118.4	120.1	121.7	124.6	123.6	119.7	115.6	114.2	115.2	115.6
50.5°	113.5	114.8	117.0	118.3	120.9	120.1	116.0	112.0	110.6	111.8	112.5
51°	110.3	111.6	113.4	114.8	117.7	116.6	112.8	108.5	107.3	108.5	108.9
51.5°	107.1	108.5	110.1	111.6	114.2	113.2	109.3	105.3	104.0	105.0	105.7
52°	103.9	105.1	106.8	108.3	110.9	109.7	105.9	102.2	100.9	101.9	102.6
52.5°	100.7	101.9	103.7	105.0	107.5	106.4	102.6	98.9	97.9	98.8	99.5
53°	97.4	98.9	100.6	101.7	104.4	103.2	99.4	95.9	94.7	95.5	96.3
53.5°	94.6	96.0	97.5	98.7	101.1	100.1	96.4	92.9	91.8	92.6	93.4
54°	91.6	92.9	94.2	95.5	98.1	96.8	93.2	90.0	89.0	89.7	90.4
54.5°	88.8	90.0	91.4	92.5	95.1	93.9	90.4	87.1	86.1	86.8	87.7
55°	85.9	87.2	88.6	89.9	92.0	91.2	87.5	84.5	83.5	84.1	84.9
55.5°	83.1	84.5	85.5	86.8	89.1	88.0	84.7	81.7	80.7	81.5	82.2
56°	80.6	81.7	82.9	84.1	86.2	85.1	82.0	79.2	78.2	78.8	79.6
56.5°	77.9	79.1	80.2	81.2	83.3	82.3	79.4	76.6	75.7	76.3	77.0
57°	75.4	76.5	77.5	78.6	80.6	79.6	76.8	74.3	73.1	73.7	74.5
57.5°	73.0	73.8	75.0	76.0	78.0	77.0	74.3	71.9	70.9	71.5	72.1
58°	70.4	71.5	72.5	73.4	75.3	74.5	71.9	69.5	68.4	69.1	69.7
58.5°	68.2	68.9	69.9	70.9	72.7	72.0	69.5	67.4	66.4	66.8	67.6
59°	65.8	66.6	67.4	68.3	70.3	69.4	67.1	65.1	64.2	64.6	65.2
59.5°	63.3	64.2	65.2	66.0	67.8	67.0	64.8	62.9	61.9	62.5	63.1
60°	61.1	61.9	63.0	63.6	65.4	64.8	62.6	60.8	60.1	60.3	60.9
60.5°	59.1	59.8	60.7	61.3	63.1	62.3	60.5	58.9	58.1	58.3	58.9
61°	56.8	57.5	58.3	59.3	60.9	60.2	58.5	56.8	56.1	56.2	57.0
61.5°	54.8	55.5	56.2	56.9	58.7	58.0	56.4	55.0	54.3	54.4	55.1
62°	52.9	53.4	54.2	54.9	56.4	56.0	54.4	53.1	52.4	52.5	53.2
62.5°	50.9	51.4	52.1	52.8	54.4	53.9	52.6	51.3	50.6	50.6	51.4
63°	48.9	49.5	50.1	50.7	52.4	51.9	50.6	49.4	48.7	48.8	49.5
63.5°	47.1	47.5	48.1	48.8	50.3	49.9	48.7	47.6	47.1	47.2	47.7
64°	45.3	45.7	46.3	46.9	48.3	47.9	46.9	46.0	45.5	45.5	45.9
64.5°	43.4	43.9	44.5	45.0	46.4	46.1	45.1	44.3	43.8	43.9	44.3
65°	41.8	42.2	42.8	43.1	44.4	44.2	43.4	42.7	42.2	42.3	42.7
65.5°	40.1	40.5	41.0	41.4	42.7	42.5	41.8	41.2	40.7	40.7	41.1
66°	38.4	38.7	39.3	39.7	40.9	40.7	40.2	39.6	39.2	39.2	39.6



TEST NUMBER: P639469

CATALOG NUMBER: RL4LS9FSD2W1EWH -600LM -2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	33.9	34.1	34.5	34.9	35.9	35.8	35.6	35.2	34.9	35.0	35.2
68°	32.4	32.7	33.0	33.4	34.3	34.3	34.2	33.8	33.5	33.7	33.8
68.5°	31.1	31.3	31.6	31.8	32.8	32.8	32.8	32.5	32.2	32.3	32.4
69°	29.8	30.0	30.2	30.4	31.4	31.4	31.4	31.2	31.0	31.0	31.2
69.5°	28.6	28.7	28.9	29.1	30.0	30.0	30.1	29.9	29.7	29.8	29.9
70°	27.3	27.4	27.6	27.7	28.6	28.7	28.8	28.7	28.5	28.6	28.7
70.5°	26.1	26.2	26.4	26.5	27.3	27.4	27.6	27.5	27.4	27.4	27.6
71°	24.9	25.1	25.1	25.3	26.0	26.2	26.4	26.3	26.1	26.3	26.4
71.5°	23.9	23.9	24.0	24.1	24.8	24.9	25.2	25.2	25.1	25.1	25.3
72°	23.2	23.0	23.0	22.9	23.7	23.8	24.1	24.1	24.1	24.1	24.2
72.5°	22.1	22.0	22.0	21.9	22.5	22.7	23.0	23.1	23.0	23.1	23.1
73°	21.1	21.0	21.0	20.9	21.4	21.7	22.0	22.0	22.0	22.1	22.1
73.5°	20.0	20.0	20.0	19.9	20.4	20.6	20.9	21.0	21.0	21.1	21.1
74°	19.0	19.0	19.0	18.9	19.4	19.6	19.9	20.0	20.0	20.1	20.2
74.5°	18.1	18.1	18.0	18.0	18.5	18.7	19.0	19.1	19.1	19.2	19.3
75°	17.3	17.2	17.2	17.1	17.6	17.8	18.1	18.2	18.2	18.3	18.4
75.5°	16.5	16.4	16.4	16.4	16.8	17.0	17.2	17.4	17.4	17.4	17.5
76°	15.7	15.6	15.6	15.6	16.0	16.2	16.4	16.5	16.5	16.6	16.7
76.5°	14.9	14.9	14.8	14.8	15.3	15.4	15.6	15.7	15.8	15.8	16.0
77°	14.2	14.1	14.1	14.1	14.5	14.7	14.9	14.9	15.0	15.2	15.2
77.5°	13.5	13.4	13.3	13.3	13.7	13.9	14.2	14.3	14.3	14.5	14.5
78°	12.7	12.7	12.6	12.6	13.0	13.2	13.5	13.6	13.6	13.8	13.9
78.5°	12.0	11.9	11.9	11.8	12.3	12.5	12.7	12.8	12.9	13.1	13.1
79°	11.3	11.2	11.1	11.1	11.5	11.7	12.0	12.1	12.2	12.3	12.4
79.5°	10.5	10.5	10.4	10.3	10.8	11.0	11.3	11.4	11.5	11.7	11.7
80°	9.9	9.7	9.7	9.6	10.0	10.3	10.5	10.7	10.8	11.0	11.1
80.5°	9.1	9.1	9.0	8.9	9.3	9.5	9.8	10.0	10.1	10.3	10.4
81°	8.5	8.4	8.2	8.2	8.6	8.8	9.1	9.3	9.4	9.6	9.7
81.5°	7.8	7.6	7.6	7.4	7.9	8.2	8.4	8.6	8.7	8.9	9.0
82°	7.1	7.0	6.9	6.8	7.2	7.4	7.8	7.9	8.0	8.2	8.3
82.5°	6.5	6.4	6.2	6.2	6.6	6.8	7.1	7.2	7.4	7.6	7.6
83°	5.8	5.7	5.6	5.6	6.0	6.2	6.5	6.6	6.8	6.9	7.0
83.5°	5.2	5.1	5.0	4.9	5.4	5.6	5.9	6.0	6.2	6.4	6.4
84°	4.6	4.5	4.4	4.4	4.8	5.0	5.2	5.4	5.6	5.8	5.8
84.5°	4.0	3.9	3.8	3.7	4.1	4.4	4.6	4.8	5.0	5.2	5.2
85°	3.4	3.3	3.2	3.2	3.5	3.8	4.0	4.2	4.4	4.6	4.6
85.5°	2.9	2.7	2.6	2.6	2.9	3.2	3.4	3.6	3.8	3.9	4.0
86°	2.3	2.2	2.2	2.1	2.4	2.6	2.9	3.0	3.2	3.3	3.4
86.5°	1.9	1.7	1.7	1.6	1.9	2.1	2.3	2.5	2.7	2.7	2.8
87°	1.4	1.3	1.3	1.1	1.3	1.5	1.8	2.0	2.1	2.3	2.3
87.5°	0.9	0.9	0.8	0.7	0.9	1.1	1.3	1.5	1.6	1.7	1.8
88°	0.5	0.4	0.3	0.3	0.5	0.7	0.9	1.1	1.1	1.3	1.3
88.5°	0.2	0.3	0.2	0.1	0.2	0.3	0.5	0.7	0.7	0.9	0.9



TEST NUMBER: P639469

CATALOG NUMBER: RL4LS9FSD2W1EWH -600LM -2700K

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: P639469

CATALOG NUMBER: RL4LS9FSD2W1EWH -600LM -2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	341.6	341.6	341.6	341.6	341.6	341.6
0.5°	341.3	341.6	341.8	341.8	341.4	341.1
1°	341.6	341.2	341.1	341.3	341.6	340.9
1.5°	342.4	340.8	341.4	341.5	341.4	340.8
2°	341.0	340.8	341.0	340.7	340.6	340.2
2.5°	341.8	340.5	340.5	340.6	340.7	340.4
3°	341.1	340.6	340.2	340.2	340.3	339.7
3.5°	340.3	340.4	340.0	340.0	339.5	338.8
4°	340.3	339.4	339.6	339.4	339.0	338.0
4.5°	340.1	339.4	339.0	339.0	338.2	338.3
5°	339.4	337.9	338.3	338.2	337.9	337.7
5.5°	338.8	337.9	337.4	337.6	337.1	336.8
6°	338.6	337.5	337.2	336.7	336.5	336.0
6.5°	337.9	336.7	336.6	336.2	336.3	335.3
7°	337.4	335.8	335.3	335.8	334.8	334.8
7.5°	336.5	335.2	334.9	334.5	334.4	334.0
8°	335.8	334.4	333.9	333.9	333.4	332.9
8.5°	335.4	333.9	333.1	332.5	332.2	331.6
9°	333.7	332.6	332.3	331.6	331.8	331.6
9.5°	332.8	331.9	331.2	330.7	330.4	330.1
10°	332.7	330.7	330.4	330.0	329.2	328.8
10.5°	332.1	330.0	329.2	328.6	327.7	328.0
11°	331.5	328.8	328.2	327.8	327.2	326.5
11.5°	329.6	328.9	327.2	326.8	326.0	325.7
12°	329.0	326.4	326.0	325.5	324.6	324.7
12.5°	327.1	325.8	324.5	324.0	323.4	323.3
13°	326.8	324.5	323.0	322.7	322.7	321.8
13.5°	325.8	323.8	322.1	321.7	320.8	320.9
14°	324.2	321.9	321.1	320.3	319.6	319.3
14.5°	322.7	320.7	319.5	319.1	318.4	317.6
15°	322.0	319.0	317.6	317.4	316.6	316.8
15.5°	320.0	317.4	316.6	315.4	314.8	314.6
16°	318.7	316.2	315.1	314.3	313.7	313.2
16.5°	317.2	314.5	313.3	312.7	312.0	311.9
17°	315.9	313.3	312.0	310.8	310.1	309.9
17.5°	314.2	311.5	310.5	309.2	308.6	308.2
18°	312.5	309.7	308.5	307.6	307.0	306.6
18.5°	311.2	308.2	306.9	305.7	304.8	304.9
19°	309.5	306.2	305.0	303.9	302.9	302.9
19.5°	307.0	304.4	303.1	301.9	301.3	300.9
20°	305.8	302.2	301.6	299.9	299.4	299.3
20.5°	303.6	300.9	299.3	298.2	297.6	297.1
21°	301.9	299.2	297.5	296.3	295.5	294.4

TEST NUMBER: P639469

CATALOG NUMBER: RL4LS9FSD2W1EWH -600LM -2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	296.9	293.0	291.5	290.6	289.4	289.4
23°	294.2	290.8	289.3	288.1	287.6	287.3
23.5°	292.2	289.2	287.4	285.8	285.4	285.4
24°	289.8	287.1	285.7	283.8	283.2	283.0
24.5°	288.5	284.9	283.5	281.7	281.0	281.0
25°	285.7	283.0	281.1	280.0	279.4	279.0
25.5°	283.4	280.4	279.2	277.2	276.7	276.4
26°	282.0	278.3	276.9	275.3	274.2	274.1
26.5°	279.1	276.3	274.6	272.7	272.3	272.0
27°	277.0	273.8	272.0	270.6	269.7	269.7
27.5°	274.9	271.0	269.3	268.0	267.4	267.2
28°	272.2	268.6	266.7	265.8	265.1	264.9
28.5°	269.9	266.1	264.3	263.0	262.3	262.5
29°	266.7	263.3	261.5	260.5	259.9	260.0
29.5°	264.3	261.1	259.2	257.5	257.1	257.2
30°	261.8	258.1	256.6	255.0	254.9	254.5
30.5°	259.0	255.4	253.5	252.2	251.8	251.6
31°	256.2	252.1	250.6	249.3	248.7	249.0
31.5°	253.5	249.4	247.9	246.5	245.9	245.6
32°	249.8	246.2	244.8	243.5	242.9	243.4
32.5°	246.6	242.9	241.5	240.3	240.2	240.2
33°	243.6	239.9	238.5	237.1	236.9	236.9
33.5°	240.0	236.6	235.2	234.2	234.0	234.3
34°	237.5	233.2	231.7	230.8	230.9	231.2
34.5°	233.5	230.0	228.3	227.6	227.3	228.1
35°	230.1	226.3	224.9	224.2	224.1	224.9
35.5°	226.7	222.8	221.4	220.5	220.9	221.4
36°	222.8	219.0	217.9	217.4	217.5	217.9
36.5°	219.6	215.5	214.3	213.9	214.0	214.9
37°	215.4	211.6	210.6	210.1	210.4	211.2
37.5°	212.0	208.0	207.0	206.8	207.0	207.8
38°	208.1	204.1	203.2	203.1	203.4	204.3
38.5°	204.2	200.0	199.6	199.2	199.7	200.5
39°	200.0	196.4	195.4	195.6	196.5	197.1
39.5°	196.3	192.4	192.0	192.1	192.5	193.5
40°	192.5	188.3	187.7	188.0	188.7	189.7
40.5°	188.1	184.5	184.2	184.4	185.5	186.1
41°	184.2	180.3	180.1	180.5	181.3	182.3
41.5°	180.2	176.5	176.2	176.7	177.5	178.6
42°	175.9	172.9	172.5	173.1	173.8	175.0
42.5°	171.8	168.5	168.5	169.3	170.1	171.1
43°	167.7	164.6	164.7	165.1	166.2	167.5
43.5°	163.6	160.7	160.8	161.4	162.6	163.7



TEST NUMBER: P639469

CATALOG NUMBER: RL4LS9FSD2W1EWH -600LM -2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	151.6	149.0	149.4	149.8	151.2	152.4
45.5°	147.6	145.1	145.5	146.4	147.6	148.8
46°	144.0	141.5	141.9	142.5	143.7	145.0
46.5°	140.2	137.6	138.4	139.0	140.1	141.6
47°	136.4	134.0	134.5	135.4	136.4	137.8
47.5°	132.6	130.3	130.7	131.6	133.0	134.2
48°	129.1	126.8	127.5	127.9	129.3	130.8
48.5°	125.5	123.2	123.8	124.6	125.8	127.0
49°	122.0	119.9	120.5	121.2	122.3	123.7
49.5°	118.5	116.4	116.9	117.7	118.9	120.1
50°	114.9	113.0	113.6	114.4	115.6	117.0
50.5°	111.6	109.8	110.3	110.9	112.1	113.5
51°	108.5	106.5	107.1	107.9	108.9	110.3
51.5°	105.3	103.6	104.0	104.6	105.8	107.1
52°	102.2	100.4	100.8	101.5	102.6	103.9
52.5°	98.9	97.3	97.9	98.5	99.3	100.7
53°	95.9	94.4	94.9	95.4	96.4	97.4
53.5°	93.1	91.6	91.9	92.6	93.3	94.6
54°	90.3	88.5	89.1	89.6	90.6	91.6
54.5°	87.6	85.9	86.3	86.8	87.6	88.8
55°	84.6	83.3	83.5	84.1	84.8	85.9
55.5°	82.1	80.7	81.0	81.3	82.2	83.1
56°	79.6	78.2	78.3	78.8	79.6	80.6
56.5°	76.9	75.6	75.9	76.2	76.8	77.9
57°	74.5	73.4	73.4	73.7	74.3	75.4
57.5°	72.3	70.9	71.0	71.3	71.8	73.0
58°	69.9	68.6	68.6	69.0	69.5	70.4
58.5°	67.7	66.4	66.4	66.6	67.0	68.2
59°	65.4	64.2	64.3	64.2	64.8	65.8
59.5°	63.2	62.1	62.0	62.1	62.5	63.3
60°	61.2	59.9	60.0	60.0	60.5	61.1
60.5°	59.2	57.9	57.7	57.9	58.4	59.1
61°	57.2	55.9	55.9	55.8	56.2	56.8
61.5°	55.3	54.0	53.9	53.8	54.2	54.8
62°	53.4	52.2	51.8	52.0	52.2	52.9
62.5°	51.6	50.1	50.1	50.0	50.4	50.9
63°	49.7	48.5	48.3	48.1	48.5	48.9
63.5°	47.8	46.7	46.5	46.4	46.6	47.1
64°	46.1	45.0	44.8	44.7	44.8	45.3
64.5°	44.4	43.4	43.2	43.0	43.2	43.4
65°	42.8	41.8	41.5	41.4	41.4	41.8
65.5°	41.2	40.2	39.9	39.8	39.8	40.1
66°	39.8	38.7	38.4	38.1	38.2	38.4



TEST NUMBER: P639469

CATALOG NUMBER: RL4LS9FSD2W1EWH -600LM -2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	35.3	34.3	34.1	33.9	33.7	33.9
68°	33.9	33.1	32.7	32.4	32.3	32.4
68.5°	32.5	31.6	31.4	31.1	31.0	31.1
69°	31.3	30.4	30.1	29.8	29.8	29.8
69.5°	30.0	29.2	28.8	28.6	28.4	28.6
70°	28.8	28.0	27.7	27.4	27.2	27.3
70.5°	27.6	26.8	26.5	26.2	26.1	26.1
71°	26.5	25.7	25.4	25.1	24.9	24.9
71.5°	25.3	24.6	24.3	24.1	23.9	23.9
72°	24.3	23.6	23.3	22.9	23.1	23.2
72.5°	23.2	22.7	22.3	22.0	22.1	22.1
73°	22.2	21.7	21.4	21.1	21.1	21.1
73.5°	21.2	20.8	20.4	20.1	20.0	20.0
74°	20.2	19.8	19.5	19.2	19.0	19.0
74.5°	19.4	18.8	18.6	18.3	18.2	18.1
75°	18.5	18.0	17.8	17.5	17.3	17.3
75.5°	17.6	17.2	17.0	16.7	16.5	16.5
76°	16.8	16.4	16.2	15.9	15.8	15.7
76.5°	16.0	15.6	15.4	15.2	15.1	14.9
77°	15.3	14.9	14.7	14.5	14.3	14.2
77.5°	14.6	14.2	14.0	13.8	13.7	13.5
78°	13.9	13.5	13.3	13.1	12.9	12.7
78.5°	13.2	12.8	12.6	12.3	12.1	12.0
79°	12.5	12.1	11.9	11.6	11.4	11.3
79.5°	11.8	11.3	11.1	10.9	10.7	10.5
80°	11.1	10.7	10.5	10.2	10.0	9.9
80.5°	10.4	10.0	9.8	9.5	9.3	9.1
81°	9.7	9.3	9.1	8.8	8.6	8.5
81.5°	9.1	8.6	8.4	8.2	7.9	7.8
82°	8.4	8.0	7.7	7.4	7.2	7.1
82.5°	7.7	7.3	7.1	6.8	6.6	6.5
83°	7.0	6.7	6.5	6.2	6.0	5.8
83.5°	6.4	6.1	5.8	5.6	5.3	5.2
84°	5.8	5.4	5.2	5.0	4.8	4.6
84.5°	5.2	4.8	4.6	4.4	4.2	4.0
85°	4.6	4.3	4.0	3.8	3.6	3.4
85.5°	4.0	3.7	3.4	3.2	2.9	2.9
86°	3.4	3.1	2.9	2.7	2.5	2.3
86.5°	2.9	2.6	2.4	2.2	2.0	1.9
87°	2.4	2.1	1.9	1.7	1.5	1.4
87.5°	1.9	1.7	1.5	1.3	1.1	0.9
88°	1.3	1.2	1.0	0.8	0.5	0.5
88.5°	0.9	0.7	0.5	0.3	0.2	0.2



TEST NUMBER: P639469

CATALOG NUMBER: RL4LS9FSD2W1EWH -600LM -2700K

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°	293.9	294.0	296.3	298.2	301.1	303.6	304.8	305.0	304.2	302.6	301.7
22°	291.0	292.0	294.2	296.0	299.3	301.3	303.3	303.2	302.8	301.5	299.7



44°	159.9	161.8	164.1	166.1	169.2	169.3	166.9	162.4	160.9	161.4	161.6
44.5°	156.4	157.7	160.4	162.4	165.5	165.7	162.7	158.3	156.4	157.5	157.0



66.5°	36.9	37.2	37.7	38.1	39.2	39.0	38.6	38.1	37.8	37.7	38.0
67°	35.4	35.7	36.0	36.4	37.5	37.4	37.1	36.6	36.3	36.5	36.6



89°	0.2	0.2	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.5	0.5
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°	300.1	297.0	295.7	294.2	293.7	293.9
22°	297.6	295.1	293.6	292.0	291.6	291.0



44°	159.7	156.9	156.8	157.6	158.8	159.9
44.5°	155.7	152.9	153.3	153.9	154.9	156.4



66.5°	38.1	37.2	36.9	36.7	36.7	36.9
67°	36.7	35.8	35.4	35.2	35.1	35.4



89°	0.5	0.3	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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Scaled Data Report



(END OF REPORT)