

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: P639490

Luminaire Tested: RL56069FSD2W1EWH -600LM -3000K

Issue Date: 1/25/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639490  
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 -3000K  
Description: 5/6IN RETROFIT, 600LM SELECTABLE CCT, MATTE WHITE BAFFLE  
Light Source: (1) DEDICATED LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

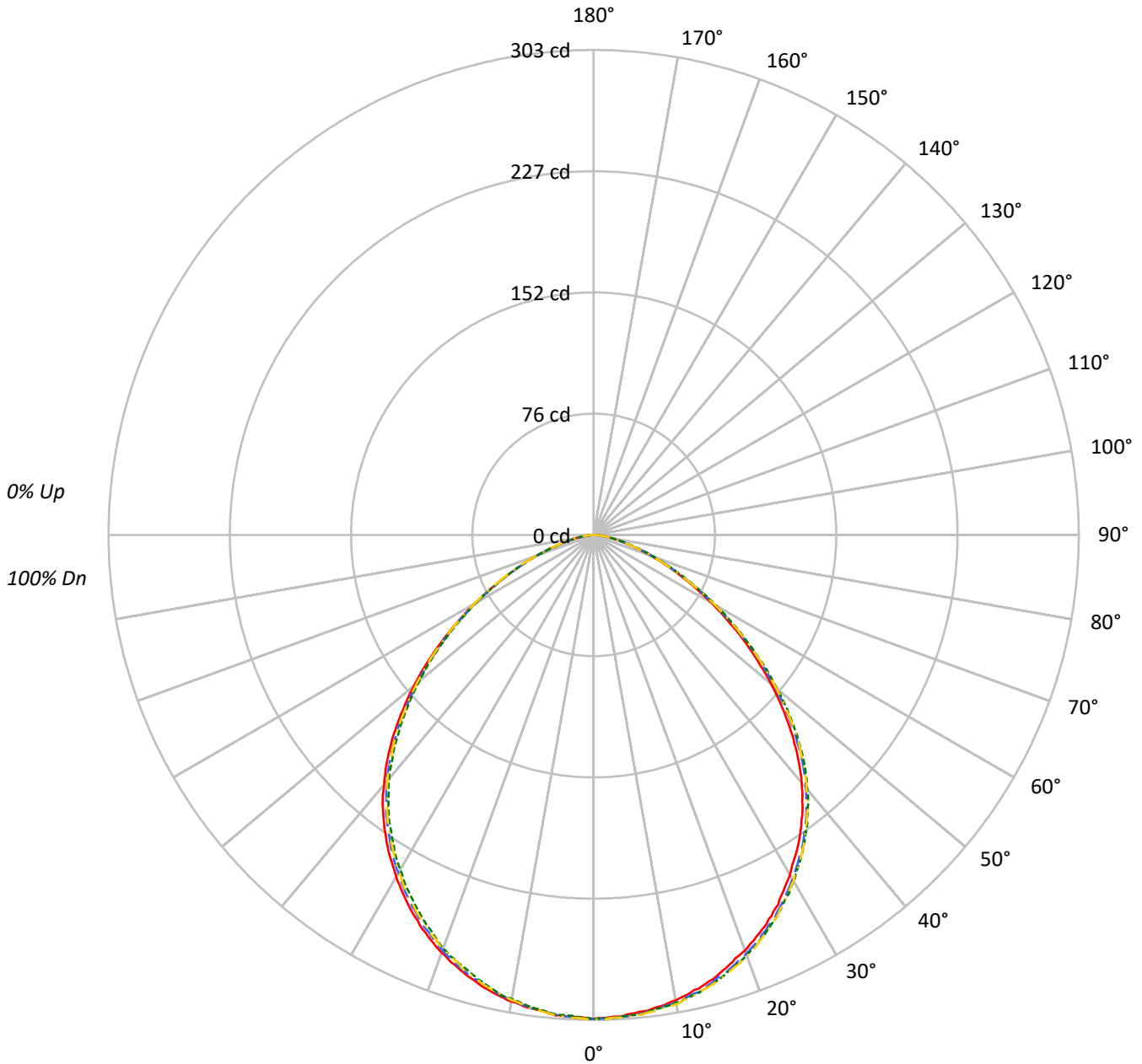
Lumens per Lamp: N/A  
Luminaire Lumens: 700.0 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.3  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 6.8  
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	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°	16578	16578	16578	16578
5°	16503	16569	16542	16525
10°	16444	16527	16477	16394
15°	16311	16464	16357	16220
20°	16119	16311	16201	16031
25°	15896	16102	15944	15660
30°	15521	15825	15610	15293
35°	15078	15419	15185	14830
40°	14456	14864	14570	14219
45°	13544	13994	13699	13273
50°	12324	12767	12486	12128
55°	10886	11268	11020	10810
60°	9330	9692	9396	9276
65°	7718	8016	7705	7692
70°	6171	6475	6059	6027
75°	4660	4978	4469	4300
80°	3473	3662	3157	2999
85°	3082	3208	2516	2327

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 112.5°  
 Vertical Angle: 45°  
 Luminance: 14009 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.5	4.1
10°-20°	81.2	11.6
20°-30°	121.1	17.3
30°-40°	141.3	20.2
40°-50°	135.4	19.3
50°-60°	103.2	14.7
60°-70°	60.1	8.6
70°-80°	23.9	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°	230.9	33.0
0°-40°	372.3	53.2
0°-60°	610.9	87.3
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°	302	302	302	302	302	
5°	300	301	301	300	300	28
15°	287	290	288	286	287	81
25°	263	266	264	259	263	121
35°	225	230	227	222	225	141
45°	175	180	177	171	175	134
55°	114	118	115	113	114	102
65°	60	62	59	59	60	60
75°	22	24	21	20	22	24
85°	5	5	4	4	5	5
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°	302.4	302.4	302.4	302.4	302.4	302.4	302.4	302.4	302.4	302.4	302.4
0.5°	302.0	302.4	302.4	302.5	302.2	302.4	302.6	302.1	302.0	302.4	302.4
1°	301.9	302.3	302.1	302.2	302.2	302.4	302.9	302.6	301.8	302.3	302.1
1.5°	301.9	302.2	302.0	302.4	302.1	302.2	302.6	302.7	301.4	302.1	301.9
2°	301.4	302.1	301.8	302.4	302.1	301.7	302.0	302.6	301.4	302.2	302.1
2.5°	301.3	302.4	301.9	302.2	302.0	302.0	302.0	302.0	301.3	302.0	301.9
3°	301.4	302.1	301.9	302.5	301.7	302.1	302.0	302.0	301.3	301.7	301.4
3.5°	301.2	301.8	301.5	302.5	301.3	302.1	302.0	302.1	301.3	301.9	301.5
4°	300.3	301.4	301.5	302.1	301.3	302.2	301.9	301.3	300.9	302.2	300.7
4.5°	300.0	301.1	301.1	301.4	301.1	302.1	301.8	301.0	301.2	301.8	300.7
5°	299.9	301.2	300.8	301.4	301.1	301.7	301.5	301.0	300.6	300.8	300.0
5.5°	299.3	301.2	300.8	301.1	301.2	300.8	301.4	300.9	300.2	300.6	299.6
6°	299.3	300.6	300.5	300.7	300.8	300.7	300.9	300.4	299.4	300.5	299.4
6.5°	299.2	299.7	299.6	300.5	299.9	300.2	300.4	299.9	299.0	299.6	299.2
7°	298.4	299.4	299.4	300.0	299.1	299.9	300.1	299.6	298.7	299.4	298.8
7.5°	297.8	298.7	298.9	299.8	298.7	299.1	300.0	299.3	298.2	298.9	298.4
8°	297.4	298.3	298.4	299.0	298.7	298.6	299.2	298.7	298.2	298.1	297.5
8.5°	297.2	297.8	297.8	298.9	298.0	298.6	298.8	298.6	297.6	297.7	297.0
9°	296.4	297.7	297.6	298.0	297.9	298.1	298.3	297.9	296.9	297.2	296.5
9.5°	295.5	297.1	297.1	297.8	297.5	297.4	298.2	297.6	296.3	297.1	296.0
10°	295.4	296.3	296.6	297.2	296.9	297.0	297.7	296.8	296.0	296.2	295.6
10.5°	294.4	296.0	295.9	296.4	296.8	296.8	297.1	296.1	295.6	295.9	294.6
11°	293.7	295.1	295.4	296.2	295.6	295.6	296.0	295.6	294.8	294.5	293.7
11.5°	293.1	294.3	294.4	295.1	295.0	294.9	295.6	294.6	294.1	294.3	293.1
12°	292.1	293.7	293.7	294.4	294.5	294.9	295.1	294.0	293.4	293.4	292.4
12.5°	291.2	293.0	293.2	293.8	293.7	294.5	294.0	293.5	292.7	292.9	291.6
13°	291.0	292.1	293.2	292.9	293.4	293.6	293.4	292.4	291.7	292.4	290.8
13.5°	289.9	290.9	291.9	292.4	292.4	292.8	292.5	292.1	291.2	291.3	289.6
14°	289.1	290.2	290.8	291.4	291.7	291.9	291.8	291.2	290.4	289.9	288.9
14.5°	288.1	289.9	289.9	290.8	290.6	291.6	291.0	290.4	289.2	289.3	287.7
15°	287.4	288.9	289.0	290.1	290.1	290.2	290.1	289.3	288.2	288.1	287.2
15.5°	286.4	287.3	287.7	289.3	288.8	289.2	289.4	288.3	287.3	287.3	286.3
16°	285.1	286.4	286.8	288.0	288.1	288.4	288.6	287.7	286.6	286.0	285.3
16.5°	283.9	285.7	286.0	286.8	287.0	287.1	287.5	286.6	285.4	285.2	284.0
17°	283.0	284.2	285.3	286.1	285.6	286.4	286.1	285.3	284.4	284.0	283.4
17.5°	281.6	283.8	283.9	284.6	285.0	285.3	285.3	284.4	283.3	282.8	282.4
18°	280.7	282.5	282.9	283.4	283.9	283.9	284.1	284.1	282.0	282.1	280.9
18.5°	278.9	280.7	281.7	283.2	282.5	283.3	283.4	282.4	281.4	281.1	279.7
19°	278.2	279.9	280.5	281.8	281.8	282.2	282.3	281.2	280.0	279.5	278.7
19.5°	277.3	278.8	279.7	280.1	280.6	280.8	280.9	280.2	278.7	278.2	277.5
20°	276.3	278.1	278.5	279.2	279.6	279.6	279.7	278.7	277.7	277.6	276.0
20.5°	275.1	276.6	277.3	278.0	278.1	278.5	278.9	277.4	276.4	275.8	275.1
21°	273.5	275.7	276.0	276.7	277.2	277.3	277.9	276.4	275.3	274.7	273.3



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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°	269.7	271.6	272.0	273.5	273.0	273.6	273.6	272.4	271.1	270.6	268.9
23°	268.4	270.1	270.5	271.6	272.1	272.5	272.0	271.1	269.6	268.8	267.8
23.5°	267.1	268.7	269.5	270.3	270.4	271.1	270.6	269.7	268.5	267.4	266.6
24°	265.8	267.1	267.7	268.5	269.1	269.7	269.2	268.4	266.9	266.2	265.0
24.5°	263.7	265.5	266.5	267.3	267.5	268.2	267.9	266.7	265.0	265.0	263.2
25°	262.8	264.0	265.5	265.9	266.2	266.5	266.3	265.3	263.6	263.2	261.4
25.5°	260.7	262.6	263.7	264.6	264.9	264.8	264.8	263.6	262.2	261.1	259.7
26°	259.3	260.9	261.9	262.9	263.4	263.3	263.3	261.8	260.6	259.7	258.5
26.5°	258.3	259.2	260.4	261.1	261.7	262.1	261.4	260.2	258.9	258.3	256.6
27°	255.6	257.9	258.6	259.7	259.9	260.4	259.8	259.0	257.1	256.5	254.9
27.5°	253.9	256.4	256.9	258.0	258.0	258.4	258.4	257.1	255.5	254.9	253.3
28°	252.2	254.3	255.1	256.4	256.4	256.7	256.3	255.3	253.7	253.3	251.6
28.5°	250.4	252.4	253.7	254.5	255.4	254.8	254.7	253.5	252.1	251.4	249.7
29°	248.6	250.6	252.0	252.6	253.5	253.2	252.9	251.9	250.1	249.6	247.9
29.5°	247.0	249.0	250.0	251.1	251.3	251.3	251.1	250.0	248.6	247.4	246.1
30°	245.2	247.5	248.3	249.3	250.0	249.6	249.6	248.2	246.6	245.5	243.9
30.5°	243.0	245.6	246.6	247.4	248.1	247.9	247.4	246.3	244.7	243.9	242.4
31°	240.8	243.3	244.6	245.6	245.7	246.0	245.6	244.5	242.8	242.1	240.4
31.5°	239.1	241.8	242.7	243.8	244.0	244.1	244.0	242.6	240.9	240.3	238.7
32°	237.3	239.9	241.0	241.7	242.2	242.7	242.2	240.7	239.0	238.6	236.6
32.5°	235.5	237.9	239.0	239.9	240.4	240.3	240.3	238.8	237.4	236.1	234.5
33°	233.6	235.8	237.2	237.9	238.5	238.5	238.2	236.7	235.4	234.2	232.6
33.5°	231.6	234.0	235.3	236.0	236.6	236.5	236.4	234.7	233.3	232.1	230.3
34°	229.7	231.9	233.4	234.3	234.4	234.3	234.3	232.9	231.4	230.1	228.1
34.5°	227.5	229.5	231.3	232.3	232.6	232.4	232.3	231.1	229.1	227.9	225.8
35°	225.3	227.8	229.0	230.4	230.4	230.5	229.9	228.9	226.9	225.8	223.9
35.5°	223.3	225.6	227.0	228.0	228.3	228.6	227.8	227.3	225.0	224.0	221.9
36°	220.8	223.4	224.9	225.7	226.5	226.7	225.5	224.7	222.8	221.8	219.6
36.5°	218.9	221.4	222.7	223.8	224.3	224.4	223.4	222.1	220.5	219.6	217.7
37°	216.7	218.8	220.6	221.7	221.4	222.1	221.2	220.2	218.3	217.3	215.3
37.5°	214.4	216.9	218.2	218.9	219.4	219.2	218.8	217.8	216.1	214.8	213.0
38°	211.6	214.3	215.9	216.7	217.1	217.3	217.4	215.3	214.1	212.5	210.4
38.5°	209.4	212.1	213.2	214.1	215.1	214.7	214.8	212.9	211.6	209.9	208.2
39°	207.2	209.6	211.1	211.8	212.8	213.0	212.0	210.8	209.3	208.0	205.7
39.5°	204.5	207.3	208.7	209.7	210.5	210.6	209.4	208.5	206.2	205.1	203.2
40°	202.0	205.3	206.4	207.4	207.7	207.7	206.9	206.0	203.6	203.0	200.8
40.5°	199.8	202.2	204.0	204.7	204.9	205.2	204.7	202.8	201.3	200.8	198.4
41°	197.0	199.4	201.1	202.3	202.8	202.9	202.1	200.9	198.5	197.8	195.9
41.5°	194.4	196.7	198.5	199.6	200.2	200.3	199.4	198.6	196.3	194.8	192.9
42°	191.6	194.2	196.0	196.9	197.6	197.1	196.7	195.3	193.5	192.3	190.3
42.5°	188.9	191.3	193.2	193.8	195.3	194.8	193.9	192.6	190.7	189.8	187.5
43°	186.2	188.6	190.2	191.2	192.3	191.9	191.3	189.8	188.0	186.9	184.9
43.5°	183.4	185.8	187.4	188.6	189.4	189.2	188.2	186.9	185.3	184.1	182.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	174.7	177.1	179.0	179.6	180.5	180.7	179.6	178.4	176.7	175.3	173.7
45.5°	171.8	174.2	175.6	176.8	177.8	177.7	177.1	175.5	173.6	172.4	170.9
46°	168.9	171.1	172.9	174.0	174.6	174.6	173.9	172.4	170.7	169.6	167.9
46.5°	165.7	168.0	169.9	171.0	171.9	171.5	170.8	169.5	167.7	166.5	164.8
47°	163.2	165.0	166.7	167.5	168.5	168.6	167.5	166.3	164.9	163.5	161.9
47.5°	159.8	162.1	163.7	164.3	165.5	165.4	164.6	163.5	161.4	160.7	158.6
48°	156.9	158.9	160.7	161.2	162.6	162.2	161.5	160.5	158.6	157.7	155.8
48.5°	153.9	155.8	157.4	158.3	159.2	159.1	158.7	157.1	155.6	154.7	152.7
49°	150.7	152.6	154.3	155.2	156.1	155.8	155.1	154.1	152.7	151.6	149.8
49.5°	147.8	149.5	151.3	152.3	153.0	152.9	152.2	151.0	149.6	148.4	146.7
50°	144.5	146.3	148.0	148.7	149.7	150.0	148.8	147.8	146.4	145.3	143.8
50.5°	141.6	143.6	144.8	145.8	146.5	146.6	145.7	144.5	143.2	142.3	140.8
51°	138.4	140.5	141.6	142.7	143.6	143.0	142.7	141.6	140.2	139.5	138.0
51.5°	135.4	137.3	138.7	139.4	140.6	140.1	139.6	138.5	137.2	135.9	134.7
52°	132.0	134.0	135.4	136.5	137.4	137.0	136.2	135.4	134.2	133.2	131.6
52.5°	129.1	130.6	132.2	133.1	133.9	133.8	133.2	132.4	131.0	130.1	128.6
53°	126.1	127.6	129.0	130.0	130.5	131.0	130.0	128.9	127.7	126.8	125.7
53.5°	123.0	124.6	126.1	127.0	127.5	127.5	126.9	125.9	124.6	123.9	122.8
54°	120.0	121.4	123.2	123.8	124.3	124.2	123.6	123.0	121.7	120.7	119.7
54.5°	117.2	118.5	119.9	120.8	121.2	121.2	120.6	119.9	118.6	117.7	116.6
55°	113.9	115.4	116.8	117.7	117.9	118.0	117.5	116.6	115.3	114.6	113.5
55.5°	110.9	112.3	113.7	114.6	114.9	115.0	114.3	113.5	112.3	111.5	110.7
56°	108.0	109.3	110.7	111.6	111.9	111.8	111.0	110.5	109.2	108.5	107.8
56.5°	105.1	106.4	107.7	108.6	109.0	108.8	108.0	107.4	106.4	105.8	104.8
57°	102.1	103.3	104.8	105.4	106.0	105.7	105.3	104.3	103.3	102.6	102.0
57.5°	99.1	100.5	102.0	102.5	102.8	102.7	102.1	101.3	100.3	99.6	99.0
58°	96.2	97.6	99.0	99.6	100.0	99.7	99.1	98.3	97.3	96.8	96.0
58.5°	93.4	94.5	95.9	96.6	97.3	96.9	96.1	95.2	94.3	93.8	93.2
59°	90.6	91.7	93.1	93.5	94.3	94.0	93.2	92.5	91.5	90.8	90.3
59.5°	87.8	88.8	90.1	90.8	91.0	90.8	90.5	89.4	88.4	88.1	87.6
60°	85.1	85.9	87.4	88.1	88.4	87.9	87.4	86.7	85.7	85.3	84.9
60.5°	82.3	83.2	84.6	85.2	85.7	85.3	84.6	83.8	82.9	82.5	82.1
61°	79.6	80.5	81.9	82.5	82.9	82.4	81.7	80.9	80.0	79.7	79.3
61.5°	77.0	77.8	79.1	79.7	80.1	79.6	78.9	78.1	77.4	76.9	76.5
62°	74.3	75.1	76.4	76.9	77.5	76.8	76.2	75.4	74.6	74.2	73.9
62.5°	71.6	72.6	73.7	74.3	74.8	74.2	73.5	72.9	72.0	71.5	71.3
63°	69.2	70.0	71.1	71.6	72.1	71.4	70.9	70.0	69.4	69.1	68.6
63.5°	66.6	67.5	68.5	69.2	69.3	69.0	68.2	67.4	66.9	66.6	66.3
64°	64.1	65.0	66.1	66.7	66.9	66.5	65.7	64.9	64.3	64.0	63.9
64.5°	61.8	62.6	63.7	64.2	64.4	63.9	63.2	62.4	61.7	61.6	61.3
65°	59.5	60.2	61.2	61.7	61.8	61.4	60.7	60.1	59.4	59.3	58.8
65.5°	57.1	57.8	58.9	59.4	59.5	59.0	58.4	57.6	57.0	56.7	56.7
66°	54.9	55.6	56.6	57.0	57.2	56.6	55.9	55.2	54.6	54.4	54.2





TEST NUMBER: P639490

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	48.5	49.1	50.1	50.5	50.2	49.9	49.2	48.5	47.9	47.7	47.6
68°	46.5	47.1	47.9	48.4	48.2	47.7	47.1	46.2	45.7	45.6	45.5
68.5°	44.4	45.1	45.8	46.3	46.1	45.6	44.8	44.1	43.5	43.5	43.3
69°	42.4	43.1	43.8	44.3	44.1	43.7	42.9	42.2	41.6	41.4	41.2
69.5°	40.4	41.1	41.8	42.3	42.3	41.7	41.0	40.2	39.6	39.5	39.3
70°	38.5	39.2	40.0	40.3	40.4	39.9	39.1	38.4	37.8	37.6	37.5
70.5°	36.7	37.3	38.1	38.4	38.5	38.0	37.3	36.5	36.0	35.8	35.6
71°	34.8	35.6	36.1	36.6	36.7	36.2	35.5	34.7	34.2	34.0	33.8
71.5°	33.0	33.8	34.3	34.7	34.9	34.3	33.6	33.0	32.3	32.0	32.0
72°	31.3	31.9	32.5	32.9	33.2	32.6	31.8	31.2	30.6	30.4	30.3
72.5°	29.5	30.1	30.8	31.1	31.4	31.0	30.2	29.4	29.0	28.7	28.5
73°	27.8	28.5	29.0	29.3	29.7	29.2	28.5	27.8	27.3	27.0	26.9
73.5°	26.3	27.0	27.4	27.7	28.1	27.6	26.9	26.2	25.6	25.4	25.2
74°	24.8	25.4	25.9	26.1	26.6	26.0	25.2	24.6	24.1	23.7	23.5
74.5°	23.3	24.0	24.4	24.6	25.0	24.4	23.7	23.1	22.6	22.3	22.1
75°	22.0	22.6	23.0	23.1	23.5	23.0	22.3	21.7	21.1	20.8	20.7
75.5°	20.5	21.1	21.6	21.7	22.0	21.6	20.8	20.3	19.7	19.4	19.3
76°	19.3	19.8	20.2	20.3	20.6	20.2	19.5	19.0	18.4	18.1	18.0
76.5°	18.0	18.6	18.9	19.0	19.3	18.9	18.2	17.6	17.1	16.8	16.6
77°	16.8	17.4	17.7	17.8	18.0	17.6	17.0	16.4	15.8	15.6	15.4
77.5°	15.7	16.2	16.5	16.6	16.8	16.4	15.8	15.2	14.7	14.4	14.3
78°	14.6	15.0	15.4	15.4	15.7	15.2	14.7	14.2	13.7	13.3	13.2
78.5°	13.6	14.1	14.4	14.4	14.6	14.1	13.6	13.1	12.6	12.4	12.2
79°	12.7	13.1	13.3	13.3	13.5	13.1	12.5	12.3	11.8	11.5	11.4
79.5°	11.9	12.3	12.5	12.5	12.4	12.2	11.8	11.3	10.8	10.6	10.4
80°	11.0	11.4	11.6	11.6	11.6	11.4	10.9	10.4	10.0	9.8	9.6
80.5°	10.2	10.6	10.8	10.8	10.8	10.5	10.1	9.7	9.3	9.0	8.8
81°	9.5	9.9	10.0	10.0	10.0	9.7	9.3	8.9	8.6	8.3	8.1
81.5°	8.8	9.1	9.3	9.3	9.1	8.9	8.5	8.2	7.9	7.7	7.5
82°	8.1	8.4	8.6	8.6	8.5	8.2	7.9	7.6	7.3	7.1	6.9
82.5°	7.6	7.8	8.0	7.9	7.8	7.6	7.4	7.0	6.7	6.5	6.3
83°	7.0	7.3	7.5	7.5	7.3	7.0	6.8	6.5	6.2	6.0	5.8
83.5°	6.4	6.7	6.9	6.9	6.6	6.5	6.2	5.9	5.7	5.4	5.2
84°	6.0	6.2	6.4	6.4	6.2	6.0	5.7	5.4	5.1	4.9	4.7
84.5°	5.4	5.7	5.9	5.9	5.7	5.5	5.2	4.9	4.6	4.4	4.1
85°	4.9	5.1	5.3	5.3	5.1	5.0	4.6	4.4	4.0	3.8	3.5
85.5°	4.3	4.6	4.8	4.8	4.6	4.5	4.2	3.8	3.5	3.3	3.1
86°	3.8	4.1	4.3	4.3	4.1	3.9	3.7	3.3	3.1	2.7	2.7
86.5°	3.3	3.6	3.8	3.8	3.6	3.4	3.2	2.9	2.7	2.3	2.0
87°	2.7	3.1	3.3	3.3	3.2	3.0	2.7	2.3	2.0	1.8	1.5
87.5°	2.3	2.6	2.8	2.9	2.7	2.6	2.2	1.9	1.6	1.2	1.1
88°	1.8	2.1	2.3	2.4	2.2	2.0	1.7	1.3	1.0	0.8	0.6
88.5°	1.3	1.7	1.8	1.9	1.7	1.5	1.2	0.9	0.6	0.3	0.3



TEST NUMBER: P639490  
CATALOG NUMBER: RL56069FSD2W1EWH -600LM -3000K

**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: P639490

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	302.4	302.4	302.4	302.4	302.4	302.4
0.5°	302.1	302.1	302.5	302.8	302.0	302.0
1°	301.9	301.7	301.9	302.4	302.1	301.9
1.5°	301.8	301.5	301.7	302.0	302.6	301.9
2°	301.8	301.2	301.7	302.0	302.6	301.4
2.5°	301.3	300.7	301.5	302.1	301.9	301.3
3°	301.3	300.7	301.1	301.8	301.5	301.4
3.5°	301.2	300.5	301.1	301.5	301.4	301.2
4°	301.1	300.7	300.8	301.1	301.2	300.3
4.5°	300.8	300.6	300.9	301.0	300.7	300.0
5°	301.0	300.3	299.9	300.6	300.2	299.9
5.5°	300.7	299.5	299.8	299.9	299.6	299.3
6°	299.2	298.8	299.0	299.8	299.6	299.3
6.5°	298.6	298.3	299.0	299.1	298.6	299.2
7°	298.3	298.2	298.5	298.6	298.4	298.4
7.5°	297.9	297.4	297.2	298.4	298.0	297.8
8°	297.8	297.1	296.9	297.6	297.6	297.4
8.5°	296.8	296.2	296.4	297.1	297.1	297.2
9°	296.3	295.6	295.4	296.1	296.4	296.4
9.5°	295.8	294.9	295.0	295.6	296.0	295.5
10°	295.1	294.5	294.9	295.2	295.3	295.4
10.5°	294.2	293.9	294.0	294.3	294.8	294.4
11°	294.2	293.7	293.7	293.7	293.4	293.7
11.5°	293.1	293.0	293.0	292.8	292.9	293.1
12°	292.8	291.8	291.3	291.9	292.3	292.1
12.5°	291.5	290.8	290.4	291.3	291.2	291.2
13°	290.2	289.8	289.9	290.6	290.5	291.0
13.5°	289.6	288.8	289.4	289.8	289.7	289.9
14°	289.1	287.7	288.4	288.8	288.9	289.1
14.5°	287.9	287.1	287.3	287.6	287.4	288.1
15°	286.9	285.8	286.6	286.3	287.2	287.4
15.5°	285.6	284.6	285.0	285.3	286.0	286.4
16°	284.5	283.5	284.0	284.0	284.7	285.1
16.5°	283.7	282.4	282.9	284.0	283.6	283.9
17°	282.5	281.4	281.9	282.5	283.1	283.0
17.5°	281.5	280.5	281.2	280.6	281.5	281.6
18°	280.6	279.1	279.7	279.8	280.0	280.7
18.5°	278.9	278.5	277.9	278.4	279.2	278.9
19°	277.9	277.4	276.8	278.0	278.0	278.2
19.5°	276.6	275.9	275.5	276.2	277.0	277.3
20°	275.3	274.8	274.3	275.1	275.7	276.3
20.5°	273.6	273.4	273.1	274.1	274.6	275.1
21°	272.4	271.8	271.9	272.3	272.7	273.5



TEST NUMBER: P639490

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	268.6	266.9	267.2	268.3	268.3	269.7
23°	266.8	265.6	265.6	266.9	267.5	268.4
23.5°	265.6	264.0	264.4	265.2	265.9	267.1
24°	263.9	262.6	262.8	263.3	264.1	265.8
24.5°	262.4	260.7	261.2	262.1	262.8	263.7
25°	260.7	258.9	259.6	260.8	261.4	262.8
25.5°	258.9	257.6	257.8	259.0	259.7	260.7
26°	257.5	255.9	256.4	257.2	258.4	259.3
26.5°	255.8	254.0	254.9	255.5	256.4	258.3
27°	254.0	252.5	252.8	253.9	254.7	255.6
27.5°	252.2	250.7	251.0	252.4	253.2	253.9
28°	250.6	249.4	249.4	251.2	251.3	252.2
28.5°	248.8	247.4	247.7	249.0	249.4	250.4
29°	246.8	245.5	245.8	247.1	247.7	248.6
29.5°	244.8	243.2	244.0	244.9	245.8	247.0
30°	243.0	241.6	241.8	243.3	244.1	245.2
30.5°	241.1	239.8	240.1	241.5	242.1	243.0
31°	239.3	238.1	238.1	239.7	240.2	240.8
31.5°	237.5	236.2	236.1	237.4	238.3	239.1
32°	235.1	234.2	234.0	235.4	236.5	237.3
32.5°	233.0	232.1	232.0	233.2	234.5	235.5
33°	231.0	229.5	230.1	231.4	232.6	233.6
33.5°	229.0	227.9	228.2	229.4	230.5	231.6
34°	227.1	225.5	226.0	227.2	228.5	229.7
34.5°	225.1	223.5	224.0	225.4	226.5	227.5
35°	223.1	221.6	221.9	223.2	224.5	225.3
35.5°	220.9	219.8	219.8	220.9	222.0	223.3
36°	218.3	217.5	217.8	219.0	220.1	220.8
36.5°	216.3	215.3	215.3	216.6	217.5	218.9
37°	214.4	213.1	212.8	214.5	215.7	216.7
37.5°	212.1	210.6	210.7	211.9	213.4	214.4
38°	209.5	208.1	208.6	209.7	211.1	211.6
38.5°	207.2	205.6	206.4	207.5	208.5	209.4
39°	204.8	203.3	203.7	205.0	206.0	207.2
39.5°	202.0	201.3	201.4	202.9	203.5	204.5
40°	199.6	198.7	198.7	200.3	201.2	202.0
40.5°	197.2	196.3	196.6	197.8	198.5	199.8
41°	194.4	193.5	194.0	195.3	196.0	197.0
41.5°	192.1	190.4	191.5	192.8	193.5	194.4
42°	189.5	187.8	189.1	189.9	190.8	191.6
42.5°	186.5	185.4	186.0	187.1	188.4	188.9
43°	183.8	182.7	183.0	184.5	185.5	186.2
43.5°	180.9	180.1	180.1	181.7	182.7	183.4



TEST NUMBER: P639490

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	172.7	171.2	171.9	173.2	174.2	174.7
45.5°	169.8	168.5	169.0	170.4	171.0	171.8
46°	166.8	165.6	166.2	167.9	168.6	168.9
46.5°	163.7	162.8	163.6	164.7	165.3	165.7
47°	161.0	159.9	160.4	161.7	162.5	163.2
47.5°	158.0	157.0	157.8	159.0	159.3	159.8
48°	155.1	154.1	154.5	156.2	156.6	156.9
48.5°	152.0	151.1	151.8	152.7	153.4	153.9
49°	148.7	148.1	149.0	150.1	150.4	150.7
49.5°	145.8	145.3	146.0	147.1	147.2	147.8
50°	143.2	142.2	143.5	144.2	144.1	144.5
50.5°	139.9	139.3	140.2	141.2	141.5	141.6
51°	136.9	136.4	137.4	138.2	138.5	138.4
51.5°	133.9	133.7	134.1	135.3	135.4	135.4
52°	131.0	130.5	131.3	132.3	132.1	132.0
52.5°	127.9	127.7	128.5	129.2	129.1	129.1
53°	125.1	124.6	125.8	126.5	126.3	126.1
53.5°	122.1	121.7	122.6	123.3	123.3	123.0
54°	119.2	118.9	119.6	120.6	120.1	120.0
54.5°	116.3	115.8	116.4	117.6	117.3	117.2
55°	113.4	113.1	113.7	114.5	114.2	113.9
55.5°	110.4	110.0	110.8	111.4	111.3	110.9
56°	107.6	107.2	107.7	108.6	108.2	108.0
56.5°	104.7	104.1	104.8	105.9	105.6	105.1
57°	101.9	101.4	102.2	102.9	102.6	102.1
57.5°	98.9	98.3	99.4	99.9	99.5	99.1
58°	96.0	95.5	96.4	97.0	96.7	96.2
58.5°	93.3	92.8	93.6	94.3	93.7	93.4
59°	90.5	90.2	90.7	91.5	90.9	90.6
59.5°	87.6	87.3	88.1	88.7	88.2	87.8
60°	84.9	84.6	85.2	86.0	85.4	85.1
60.5°	82.3	81.8	82.5	83.2	82.7	82.3
61°	79.7	79.3	79.9	80.5	80.1	79.6
61.5°	76.8	76.7	77.4	77.8	77.4	77.0
62°	74.1	73.9	74.8	75.0	74.6	74.3
62.5°	71.6	71.4	72.1	72.5	72.0	71.6
63°	69.0	69.0	69.5	70.0	69.5	69.2
63.5°	66.5	66.6	67.2	67.4	67.0	66.6
64°	63.9	64.1	64.5	65.0	64.5	64.1
64.5°	61.4	61.6	62.2	62.5	62.1	61.8
65°	59.2	59.3	59.8	60.1	59.6	59.5
65.5°	56.9	56.9	57.6	57.6	57.3	57.1
66°	54.4	54.5	55.2	55.5	55.1	54.9



TEST NUMBER: P639490

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	47.9	48.0	48.5	48.7	48.6	48.5
68°	45.7	45.9	46.5	46.6	46.5	46.5
68.5°	43.6	43.9	44.2	44.5	44.4	44.4
69°	41.5	41.7	42.1	42.5	42.4	42.4
69.5°	39.5	39.7	40.1	40.4	40.3	40.4
70°	37.7	37.6	38.2	38.5	38.4	38.5
70.5°	35.9	35.6	36.3	36.5	36.6	36.7
71°	34.0	33.8	34.2	34.7	34.8	34.8
71.5°	32.2	31.9	32.4	32.8	32.9	33.0
72°	30.4	30.1	30.6	31.0	31.1	31.3
72.5°	28.7	28.3	28.7	29.1	29.3	29.5
73°	27.0	26.5	26.9	27.4	27.6	27.8
73.5°	25.4	24.8	25.2	25.7	26.0	26.3
74°	23.8	23.2	23.6	24.2	24.4	24.8
74.5°	22.2	21.8	22.1	22.6	23.0	23.3
75°	20.8	20.3	20.7	21.2	21.6	22.0
75.5°	19.4	18.9	19.3	19.8	20.1	20.5
76°	18.0	17.6	17.9	18.4	18.9	19.3
76.5°	16.7	16.4	16.6	17.2	17.6	18.0
77°	15.4	15.2	15.4	16.0	16.4	16.8
77.5°	14.3	14.0	14.4	14.8	15.2	15.7
78°	13.2	13.0	13.2	13.7	14.2	14.6
78.5°	12.2	12.1	12.3	12.8	13.2	13.6
79°	11.3	11.2	11.5	11.9	12.3	12.7
79.5°	10.4	10.3	10.5	11.0	11.5	11.9
80°	9.5	9.5	9.8	10.2	10.6	11.0
80.5°	8.8	8.8	9.0	9.4	9.9	10.2
81°	8.0	8.2	8.4	8.7	9.1	9.5
81.5°	7.5	7.6	7.8	8.1	8.4	8.8
82°	6.8	7.1	7.3	7.5	7.9	8.1
82.5°	6.3	6.5	6.6	6.9	7.3	7.6
83°	5.8	5.9	6.1	6.4	6.7	7.0
83.5°	5.1	5.3	5.5	5.9	6.2	6.4
84°	4.6	4.8	5.0	5.3	5.6	6.0
84.5°	4.0	4.3	4.4	4.8	5.1	5.4
85°	3.5	3.7	3.9	4.2	4.5	4.9
85.5°	3.0	3.2	3.4	3.7	4.0	4.3
86°	2.5	2.7	2.9	3.1	3.5	3.8
86.5°	2.0	2.1	2.4	2.6	3.0	3.3
87°	1.5	1.7	1.9	2.1	2.5	2.7
87.5°	1.0	1.1	1.4	1.7	1.9	2.3
88°	0.5	0.7	0.8	1.1	1.5	1.8
88.5°	0.1	0.3	0.5	0.7	1.0	1.3



TEST NUMBER: P639490  
CATALOG NUMBER: RL56069FSD2W1EWH -600LM -3000K

**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

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°	272.6	274.0	274.9	275.9	276.1	276.5	276.3	274.8	273.7	273.3	272.1
22°	270.9	272.4	273.2	274.7	274.6	275.4	274.7	273.9	272.5	272.1	270.5



44°	180.3	182.9	184.7	185.9	186.5	186.5	185.5	184.3	182.3	181.2	179.4
44.5°	177.8	179.9	181.3	182.8	183.4	183.2	182.9	181.5	179.7	178.0	176.2



66.5°	52.7	53.4	54.2	54.7	54.7	54.2	53.6	52.9	52.3	52.1	51.9
67°	50.7	51.2	52.1	52.5	52.6	51.9	51.3	50.6	50.0	49.9	49.7



89°	0.8	1.1	1.3	1.5	1.2	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°	271.3	270.1	270.3	270.8	271.6	272.6
22°	269.5	268.2	269.1	269.7	269.9	270.9



44°	178.2	177.1	177.5	179.1	180.1	180.3
44.5°	175.6	174.0	174.6	176.5	177.0	177.8



66.5°	52.2	52.3	52.9	53.1	52.8	52.7
67°	50.0	50.2	50.7	51.0	50.7	50.7

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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)