

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: P639489

Luminaire Tested: RL56069FSD2W1EWH -600LM -2700K

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-2019
Report Number: P639489
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 -2700K
Description: 5/6IN RETROFIT, 600LM SELECTABLE CCT, MATTE WHITE BAFFLE
Light Source: (1) DEDICATED LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

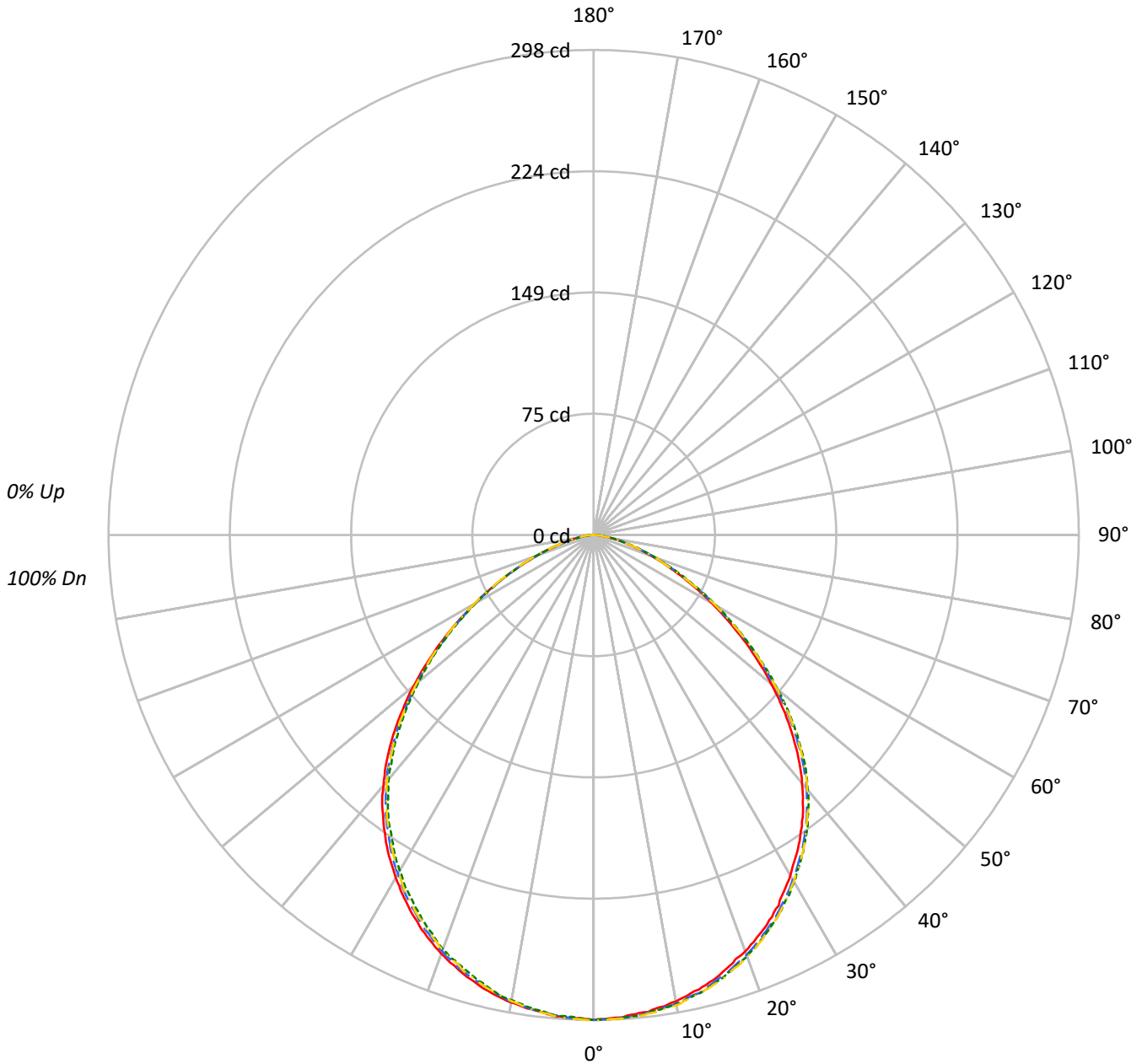
Lumens per Lamp: N/A
Luminaire Lumens: 690.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.3
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	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°	16342	16342	16342	16342
5°	16267	16333	16305	16289
10°	16210	16293	16243	16160
15°	16078	16226	16124	15988
20°	15886	16078	15973	15798
25°	15672	15872	15715	15436
30°	15300	15604	15388	15078
35°	14857	15198	14964	14623
40°	14248	14656	14363	14019
45°	13350	13792	13505	13087
50°	12145	12588	12307	11948
55°	10733	11106	10867	10657
60°	9199	9561	9265	9133
65°	7614	7913	7601	7588
70°	6091	6379	5979	5930
75°	4596	4893	4406	4236
80°	3410	3599	3125	2968
85°	3019	3208	2516	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 112.5°

Vertical Angle: 45°

Luminance: 13808 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.1	4.1
10°-20°	80.1	11.6
20°-30°	119.4	17.3
30°-40°	139.3	20.2
40°-50°	133.5	19.3
50°-60°	101.7	14.7
60°-70°	59.3	8.6
70°-80°	23.6	3.4
80°-90°	5.0	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°	227.6	33.0
0°-40°	367.0	53.2
0°-60°	602.2	87.3
0°-90°	690.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	690.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	298	298	298	298	298	
5°	296	297	296	296	296	28
15°	283	286	284	282	283	80
25°	259	262	260	255	259	119
35°	222	227	224	218	222	139
45°	172	178	174	169	172	132
55°	112	116	114	112	112	100
65°	59	61	59	58	59	59
75°	22	23	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°	298.1	298.1	298.1	298.1	298.1	298.1	298.1	298.1	298.1	298.1	298.1
0.5°	297.7	298.1	298.1	298.1	297.9	298.1	298.3	297.8	297.7	298.0	298.0
1°	297.6	298.0	297.8	297.9	297.9	298.0	298.5	298.2	297.5	298.0	297.8
1.5°	297.6	297.9	297.7	298.1	297.8	297.9	298.3	298.4	297.1	297.8	297.6
2°	297.1	297.8	297.5	298.1	297.8	297.4	297.7	298.3	297.1	297.9	297.8
2.5°	297.0	298.1	297.6	297.9	297.7	297.7	297.7	297.7	297.0	297.7	297.6
3°	297.1	297.8	297.6	298.2	297.4	297.8	297.7	297.7	297.0	297.4	297.1
3.5°	296.9	297.5	297.2	298.2	297.0	297.8	297.7	297.8	297.0	297.6	297.2
4°	296.0	297.1	297.2	297.8	297.0	297.9	297.6	297.0	296.6	297.9	296.4
4.5°	295.7	296.8	296.8	297.1	296.8	297.8	297.5	296.7	296.9	297.5	296.4
5°	295.6	296.9	296.5	297.1	296.8	297.4	297.2	296.7	296.3	296.5	295.7
5.5°	295.0	296.9	296.5	296.8	296.9	296.5	297.1	296.6	295.9	296.3	295.3
6°	295.0	296.3	296.2	296.4	296.5	296.4	296.6	296.1	295.2	296.2	295.2
6.5°	295.0	295.4	295.3	296.2	295.6	295.9	296.1	295.6	294.7	295.3	295.0
7°	294.1	295.2	295.2	295.7	294.9	295.6	295.8	295.3	294.4	295.2	294.5
7.5°	293.5	294.5	294.7	295.5	294.5	294.8	295.7	295.1	293.9	294.7	294.1
8°	293.1	294.0	294.1	294.8	294.5	294.4	295.0	294.5	293.9	293.8	293.2
8.5°	292.9	293.6	293.6	294.7	293.8	294.4	294.5	294.3	293.3	293.4	292.7
9°	292.2	293.4	293.3	293.7	293.7	293.8	294.0	293.7	292.6	292.9	292.3
9.5°	291.3	292.9	292.8	293.6	293.2	293.2	293.9	293.3	292.1	292.8	291.7
10°	291.2	292.1	292.4	293.0	292.7	292.7	293.5	292.5	291.8	291.9	291.4
10.5°	290.2	291.8	291.6	292.2	292.6	292.5	292.9	291.9	291.3	291.7	290.4
11°	289.5	290.9	291.1	292.0	291.4	291.3	291.7	291.3	290.6	290.3	289.5
11.5°	288.9	290.1	290.2	290.9	290.8	290.7	291.3	290.4	289.9	290.1	288.9
12°	287.9	289.5	289.5	290.2	290.3	290.7	290.9	289.8	289.2	289.2	288.3
12.5°	287.0	288.8	289.0	289.7	289.5	290.3	289.8	289.3	288.5	288.7	287.4
13°	286.8	288.0	289.0	288.7	289.2	289.4	289.2	288.3	287.6	288.3	286.7
13.5°	285.7	286.7	287.7	288.3	288.3	288.6	288.3	287.9	287.0	287.1	285.5
14°	285.0	286.1	286.6	287.2	287.6	287.8	287.7	287.0	286.2	285.8	284.7
14.5°	284.0	285.8	285.7	286.7	286.4	287.4	286.9	286.2	285.1	285.2	283.6
15°	283.3	284.8	284.8	286.0	285.9	286.1	286.0	285.2	284.1	284.0	283.1
15.5°	282.3	283.2	283.6	285.2	284.7	285.1	285.3	284.2	283.2	283.2	282.2
16°	281.1	282.3	282.8	283.9	284.0	284.2	284.4	283.6	282.5	281.9	281.2
16.5°	279.9	281.6	281.9	282.8	282.9	283.0	283.4	282.5	281.4	281.1	279.9
17°	278.9	280.1	281.2	282.0	281.5	282.3	282.0	281.2	280.3	280.0	279.3
17.5°	277.6	279.8	279.9	280.6	281.0	281.3	281.2	280.3	279.3	278.8	278.4
18°	276.7	278.5	278.8	279.3	279.8	279.9	280.0	280.0	277.9	278.1	276.9
18.5°	274.9	276.7	277.7	279.2	278.5	279.2	279.3	278.4	277.3	277.1	275.7
19°	274.2	275.9	276.5	277.7	277.7	278.2	278.3	277.2	276.0	275.5	274.7
19.5°	273.3	274.8	275.7	276.1	276.6	276.8	276.9	276.2	274.7	274.3	273.5
20°	272.3	274.2	274.5	275.2	275.6	275.6	275.7	274.7	273.8	273.6	272.1
20.5°	271.2	272.7	273.3	274.1	274.1	274.5	274.9	273.5	272.4	271.9	271.2
21°	269.6	271.7	272.1	272.7	273.2	273.3	273.9	272.5	271.4	270.8	269.4



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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°	265.8	267.7	268.1	269.6	269.1	269.7	269.7	268.5	267.3	266.8	265.1
23°	264.6	266.2	266.6	267.7	268.2	268.6	268.1	267.2	265.8	265.0	263.9
23.5°	263.3	264.9	265.6	266.4	266.5	267.3	266.8	265.9	264.7	263.6	262.8
24°	262.0	263.3	263.9	264.7	265.3	265.9	265.4	264.6	263.1	262.4	261.2
24.5°	260.0	261.7	262.7	263.5	263.7	264.4	264.0	262.9	261.2	261.2	259.4
25°	259.1	260.3	261.7	262.1	262.4	262.7	262.5	261.5	259.8	259.4	257.7
25.5°	257.0	258.8	259.9	260.8	261.1	261.0	261.0	259.8	258.4	257.4	256.0
26°	255.6	257.2	258.1	259.1	259.6	259.6	259.5	258.1	256.8	256.0	254.8
26.5°	254.6	255.5	256.7	257.4	258.0	258.4	257.7	256.5	255.2	254.6	252.9
27°	252.0	254.2	254.9	256.0	256.2	256.6	256.1	255.3	253.4	252.8	251.3
27.5°	250.3	252.8	253.2	254.3	254.3	254.7	254.7	253.5	251.8	251.2	249.7
28°	248.6	250.7	251.5	252.7	252.8	253.0	252.6	251.7	250.1	249.6	248.0
28.5°	246.8	248.8	250.1	250.9	251.7	251.2	251.1	249.9	248.5	247.8	246.2
29°	245.0	247.0	248.4	249.0	249.8	249.6	249.3	248.3	246.5	246.0	244.4
29.5°	243.5	245.4	246.5	247.5	247.7	247.7	247.5	246.5	245.0	243.9	242.6
30°	241.7	244.0	244.7	245.8	246.5	246.1	246.0	244.6	243.1	242.0	240.4
30.5°	239.5	242.1	243.0	243.9	244.5	244.3	243.9	242.8	241.2	240.4	239.0
31°	237.4	239.8	241.2	242.1	242.2	242.5	242.1	241.0	239.4	238.6	237.0
31.5°	235.7	238.4	239.3	240.3	240.5	240.6	240.5	239.2	237.4	236.9	235.3
32°	233.9	236.5	237.5	238.3	238.8	239.2	238.8	237.3	235.6	235.2	233.2
32.5°	232.1	234.5	235.6	236.5	237.0	236.9	236.9	235.4	234.0	232.8	231.2
33°	230.3	232.4	233.8	234.5	235.1	235.1	234.8	233.3	232.0	230.8	229.3
33.5°	228.3	230.6	232.0	232.7	233.2	233.1	233.0	231.3	230.0	228.8	227.0
34°	226.4	228.6	230.1	230.9	231.0	231.0	231.0	229.6	228.1	226.8	224.9
34.5°	224.2	226.2	228.0	229.0	229.2	229.0	229.0	227.8	225.8	224.6	222.6
35°	222.0	224.5	225.8	227.2	227.1	227.3	226.6	225.7	223.6	222.6	220.7
35.5°	220.2	222.4	223.7	224.7	225.1	225.3	224.5	224.1	221.8	220.8	218.8
36°	217.6	220.2	221.7	222.5	223.2	223.5	222.2	221.5	219.6	218.6	216.5
36.5°	215.8	218.2	219.5	220.6	221.1	221.2	220.2	218.9	217.3	216.4	214.6
37°	213.6	215.7	217.5	218.5	218.2	218.9	218.1	217.1	215.1	214.2	212.2
37.5°	211.3	213.8	215.1	215.8	216.3	216.1	215.7	214.7	213.0	211.7	209.9
38°	208.6	211.2	212.8	213.6	214.0	214.2	214.3	212.2	211.0	209.4	207.4
38.5°	206.5	209.1	210.1	211.1	212.1	211.6	211.8	209.8	208.6	206.9	205.2
39°	204.2	206.6	208.1	208.8	209.7	209.9	209.0	207.8	206.4	205.0	202.8
39.5°	201.6	204.3	205.7	206.7	207.5	207.6	206.5	205.5	203.3	202.2	200.3
40°	199.1	202.4	203.4	204.4	204.8	204.8	203.9	203.0	200.7	200.1	198.0
40.5°	196.9	199.4	201.0	201.8	202.0	202.3	201.8	199.9	198.4	198.0	195.5
41°	194.2	196.6	198.2	199.4	199.9	200.0	199.2	198.0	195.7	195.0	193.1
41.5°	191.6	193.9	195.6	196.8	197.4	197.5	196.6	195.8	193.5	192.0	190.2
42°	188.9	191.4	193.2	194.1	194.8	194.2	193.9	192.6	190.8	189.6	187.6
42.5°	186.2	188.6	190.4	191.1	192.6	192.0	191.1	189.9	188.0	187.1	184.8
43°	183.6	185.9	187.4	188.5	189.6	189.1	188.6	187.1	185.3	184.2	182.2
43.5°	180.8	183.1	184.7	185.9	186.7	186.5	185.5	184.2	182.6	181.5	179.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	172.2	174.6	176.4	177.0	177.9	178.1	177.1	175.9	174.2	172.8	171.2
45.5°	169.4	171.7	173.1	174.3	175.3	175.2	174.6	173.0	171.1	169.9	168.4
46°	166.5	168.6	170.5	171.6	172.1	172.1	171.4	170.0	168.3	167.2	165.5
46.5°	163.4	165.6	167.5	168.6	169.5	169.0	168.4	167.1	165.3	164.1	162.4
47°	160.8	162.6	164.3	165.1	166.1	166.2	165.1	163.9	162.5	161.2	159.6
47.5°	157.5	159.8	161.4	161.9	163.1	163.1	162.2	161.1	159.1	158.4	156.4
48°	154.6	156.6	158.4	158.9	160.3	159.9	159.2	158.2	156.4	155.5	153.6
48.5°	151.7	153.6	155.1	156.1	156.9	156.8	156.4	154.9	153.4	152.5	150.5
49°	148.5	150.4	152.1	153.0	153.9	153.6	152.9	151.9	150.5	149.4	147.7
49.5°	145.6	147.4	149.1	150.1	150.8	150.8	150.0	148.9	147.4	146.3	144.6
50°	142.4	144.2	145.9	146.6	147.6	147.8	146.7	145.6	144.3	143.2	141.8
50.5°	139.6	141.5	142.7	143.8	144.4	144.5	143.6	142.5	141.1	140.2	138.7
51°	136.4	138.5	139.6	140.7	141.5	140.9	140.7	139.6	138.2	137.5	136.0
51.5°	133.5	135.4	136.7	137.4	138.6	138.1	137.6	136.5	135.2	134.0	132.8
52°	130.1	132.1	133.5	134.6	135.5	135.0	134.3	133.5	132.3	131.3	129.7
52.5°	127.2	128.8	130.3	131.2	132.0	131.8	131.3	130.5	129.1	128.3	126.8
53°	124.3	125.8	127.2	128.2	128.7	129.1	128.1	127.1	125.9	125.0	123.9
53.5°	121.2	122.8	124.3	125.2	125.7	125.7	125.0	124.1	122.9	122.1	121.0
54°	118.3	119.7	121.4	122.0	122.5	122.4	121.8	121.2	119.9	119.0	117.9
54.5°	115.5	116.8	118.1	119.1	119.4	119.5	118.9	118.2	116.9	116.1	115.0
55°	112.3	113.7	115.1	116.0	116.2	116.3	115.8	115.0	113.7	112.9	111.9
55.5°	109.3	110.7	112.1	112.9	113.3	113.3	112.6	111.9	110.7	109.9	109.2
56°	106.4	107.7	109.2	110.0	110.3	110.2	109.5	109.0	107.7	107.0	106.2
56.5°	103.6	104.9	106.2	107.0	107.4	107.2	106.5	105.8	104.9	104.2	103.3
57°	100.7	101.8	103.3	103.9	104.5	104.1	103.8	102.8	101.8	101.1	100.6
57.5°	97.7	99.0	100.6	101.0	101.3	101.2	100.6	99.8	98.8	98.2	97.6
58°	94.8	96.2	97.6	98.2	98.5	98.3	97.7	96.9	95.9	95.4	94.6
58.5°	92.1	93.1	94.5	95.3	95.9	95.6	94.7	93.9	92.9	92.5	91.8
59°	89.3	90.3	91.8	92.2	92.9	92.6	91.8	91.2	90.1	89.5	89.0
59.5°	86.6	87.5	88.8	89.5	89.7	89.5	89.2	88.2	87.2	86.8	86.4
60°	83.9	84.7	86.1	86.9	87.2	86.7	86.2	85.4	84.5	84.1	83.7
60.5°	81.2	82.0	83.4	84.0	84.5	84.1	83.4	82.6	81.8	81.4	80.9
61°	78.4	79.3	80.7	81.4	81.8	81.3	80.5	79.7	78.9	78.5	78.2
61.5°	75.9	76.7	78.0	78.6	79.0	78.5	77.8	77.0	76.2	75.8	75.4
62°	73.3	74.0	75.3	75.8	76.4	75.7	75.1	74.3	73.5	73.2	72.9
62.5°	70.6	71.5	72.6	73.2	73.7	73.1	72.4	71.9	70.9	70.5	70.3
63°	68.2	69.0	70.1	70.6	71.0	70.4	69.9	69.0	68.4	68.1	67.7
63.5°	65.7	66.5	67.6	68.2	68.3	68.0	67.2	66.5	65.9	65.6	65.4
64°	63.2	64.1	65.2	65.8	65.9	65.5	64.8	63.9	63.4	63.1	63.0
64.5°	60.9	61.7	62.8	63.3	63.5	63.0	62.3	61.5	60.9	60.7	60.4
65°	58.7	59.4	60.3	60.8	61.0	60.6	59.8	59.2	58.6	58.5	58.0
65.5°	56.3	57.0	58.1	58.5	58.7	58.2	57.5	56.8	56.2	55.9	55.9
66°	54.1	54.8	55.8	56.2	56.4	55.8	55.1	54.4	53.8	53.7	53.4



TEST NUMBER: P639489

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	47.8	48.4	49.4	49.8	49.5	49.2	48.5	47.8	47.2	47.0	46.9
68°	45.8	46.4	47.2	47.7	47.5	47.1	46.4	45.6	45.1	45.0	44.8
68.5°	43.8	44.5	45.1	45.7	45.4	45.0	44.2	43.5	42.9	42.9	42.7
69°	41.8	42.5	43.2	43.6	43.5	43.0	42.3	41.6	41.0	40.8	40.6
69.5°	39.8	40.5	41.2	41.6	41.7	41.1	40.4	39.6	39.0	38.9	38.7
70°	38.0	38.6	39.5	39.7	39.8	39.3	38.5	37.8	37.3	37.0	36.9
70.5°	36.2	36.8	37.5	37.9	38.0	37.5	36.8	36.0	35.5	35.3	35.1
71°	34.3	35.1	35.6	36.1	36.2	35.7	35.0	34.2	33.7	33.5	33.3
71.5°	32.5	33.3	33.8	34.2	34.4	33.8	33.1	32.6	31.8	31.6	31.5
72°	30.9	31.4	32.0	32.4	32.7	32.1	31.4	30.8	30.2	29.9	29.8
72.5°	29.1	29.6	30.4	30.6	30.9	30.5	29.7	29.0	28.6	28.3	28.1
73°	27.4	28.1	28.6	28.9	29.3	28.8	28.1	27.4	26.9	26.6	26.5
73.5°	25.9	26.6	27.0	27.3	27.7	27.2	26.5	25.8	25.2	25.0	24.8
74°	24.5	25.0	25.6	25.7	26.2	25.6	24.9	24.3	23.7	23.4	23.2
74.5°	23.0	23.6	24.0	24.2	24.6	24.0	23.4	22.8	22.2	22.0	21.8
75°	21.7	22.2	22.6	22.7	23.1	22.6	22.0	21.4	20.8	20.5	20.4
75.5°	20.2	20.8	21.3	21.4	21.7	21.3	20.5	20.0	19.4	19.2	19.1
76°	19.0	19.5	19.9	20.0	20.3	19.9	19.2	18.7	18.1	17.9	17.7
76.5°	17.8	18.3	18.7	18.7	19.1	18.6	17.9	17.3	16.8	16.6	16.4
77°	16.6	17.1	17.4	17.5	17.8	17.3	16.7	16.1	15.6	15.4	15.2
77.5°	15.5	15.9	16.3	16.4	16.6	16.1	15.5	15.0	14.5	14.2	14.1
78°	14.4	14.8	15.2	15.2	15.4	15.0	14.5	14.0	13.5	13.1	13.0
78.5°	13.4	13.9	14.2	14.2	14.4	13.9	13.4	12.9	12.4	12.2	12.1
79°	12.5	12.9	13.1	13.1	13.3	12.9	12.4	12.1	11.6	11.3	11.2
79.5°	11.7	12.1	12.4	12.4	12.3	12.1	11.7	11.1	10.7	10.4	10.3
80°	10.8	11.2	11.4	11.4	11.4	11.2	10.7	10.3	9.9	9.7	9.5
80.5°	10.1	10.4	10.7	10.6	10.6	10.3	9.9	9.6	9.1	8.9	8.7
81°	9.4	9.7	9.9	9.9	9.8	9.6	9.1	8.8	8.4	8.2	8.0
81.5°	8.6	8.9	9.1	9.1	9.0	8.8	8.4	8.1	7.8	7.6	7.4
82°	8.0	8.3	8.5	8.4	8.3	8.1	7.8	7.5	7.2	7.0	6.8
82.5°	7.5	7.7	7.9	7.8	7.7	7.5	7.3	6.9	6.6	6.4	6.2
83°	6.9	7.2	7.4	7.4	7.2	6.9	6.7	6.4	6.1	5.9	5.7
83.5°	6.3	6.6	6.8	6.8	6.5	6.4	6.1	5.8	5.6	5.3	5.1
84°	5.9	6.1	6.3	6.3	6.1	5.9	5.6	5.3	5.0	4.8	4.6
84.5°	5.3	5.6	5.8	5.8	5.6	5.4	5.1	4.9	4.5	4.3	4.1
85°	4.8	5.1	5.3	5.3	5.1	4.9	4.5	4.3	4.0	3.8	3.5
85.5°	4.2	4.5	4.8	4.8	4.5	4.4	4.1	3.8	3.4	3.3	3.0
86°	3.7	4.0	4.2	4.2	4.0	3.9	3.6	3.3	3.0	2.7	2.7
86.5°	3.2	3.5	3.7	3.8	3.6	3.4	3.2	2.8	2.7	2.2	2.0
87°	2.7	3.1	3.2	3.3	3.2	3.0	2.7	2.3	2.0	1.7	1.5
87.5°	2.2	2.6	2.8	2.8	2.7	2.6	2.1	1.9	1.5	1.2	1.1
88°	1.7	2.0	2.3	2.4	2.1	2.0	1.7	1.3	1.0	0.8	0.6
88.5°	1.3	1.6	1.8	1.8	1.7	1.5	1.2	0.9	0.6	0.3	0.3



TEST NUMBER: P639489

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -2700K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P639489

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	298.1	298.1	298.1	298.1	298.1	298.1
0.5°	297.8	297.8	298.1	298.4	297.7	297.7
1°	297.6	297.4	297.6	298.1	297.8	297.6
1.5°	297.5	297.2	297.4	297.7	298.2	297.6
2°	297.5	296.9	297.4	297.7	298.2	297.1
2.5°	297.0	296.4	297.2	297.8	297.6	297.0
3°	297.0	296.4	296.8	297.5	297.2	297.1
3.5°	296.9	296.2	296.8	297.2	297.1	296.9
4°	296.8	296.4	296.5	296.8	296.9	296.0
4.5°	296.5	296.3	296.6	296.7	296.4	295.7
5°	296.7	296.0	295.6	296.3	295.9	295.6
5.5°	296.4	295.2	295.5	295.6	295.3	295.0
6°	295.0	294.5	294.8	295.5	295.3	295.0
6.5°	294.4	294.0	294.7	294.9	294.3	295.0
7°	294.0	293.9	294.2	294.4	294.1	294.1
7.5°	293.6	293.2	293.0	294.1	293.8	293.5
8°	293.5	292.8	292.6	293.4	293.4	293.1
8.5°	292.5	291.9	292.2	292.8	292.9	292.9
9°	292.1	291.4	291.1	291.9	292.2	292.2
9.5°	291.5	290.7	290.8	291.4	291.8	291.3
10°	290.9	290.3	290.7	291.0	291.1	291.2
10.5°	290.0	289.7	289.8	290.1	290.6	290.2
11°	290.0	289.5	289.5	289.5	289.2	289.5
11.5°	288.9	288.8	288.8	288.6	288.7	288.9
12°	288.6	287.6	287.1	287.8	288.1	287.9
12.5°	287.3	286.7	286.2	287.1	287.0	287.0
13°	286.0	285.7	285.8	286.5	286.4	286.8
13.5°	285.5	284.7	285.3	285.7	285.6	285.7
14°	284.9	283.6	284.2	284.6	284.7	285.0
14.5°	283.8	283.0	283.2	283.5	283.3	284.0
15°	282.8	281.7	282.5	282.2	283.1	283.3
15.5°	281.5	280.6	280.9	281.3	281.9	282.3
16°	280.5	279.4	279.9	279.9	280.7	281.1
16.5°	279.6	278.4	278.9	279.9	279.6	279.9
17°	278.5	277.3	277.9	278.5	279.0	278.9
17.5°	277.4	276.5	277.2	276.6	277.5	277.6
18°	276.6	275.1	275.8	275.8	276.0	276.7
18.5°	274.9	274.5	274.0	274.4	275.2	274.9
19°	273.9	273.4	272.8	274.0	274.0	274.2
19.5°	272.7	272.0	271.6	272.3	273.0	273.3
20°	271.4	270.8	270.3	271.2	271.7	272.3
20.5°	269.7	269.5	269.2	270.2	270.6	271.2
21°	268.5	267.9	268.0	268.4	268.9	269.6



TEST NUMBER: P639489

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	264.8	263.1	263.4	264.5	264.5	265.8
23°	263.0	261.8	261.8	263.1	263.6	264.6
23.5°	261.9	260.2	260.6	261.4	262.1	263.3
24°	260.1	258.9	259.1	259.6	260.4	262.0
24.5°	258.6	257.0	257.5	258.4	259.0	260.0
25°	256.9	255.2	255.9	257.1	257.7	259.1
25.5°	255.2	253.9	254.1	255.3	256.0	257.0
26°	253.8	252.2	252.7	253.6	254.7	255.6
26.5°	252.1	250.4	251.2	251.9	252.7	254.6
27°	250.4	248.9	249.2	250.3	251.1	252.0
27.5°	248.6	247.1	247.4	248.8	249.6	250.3
28°	247.0	245.9	245.9	247.6	247.7	248.6
28.5°	245.3	243.9	244.1	245.4	245.9	246.8
29°	243.2	242.0	242.3	243.6	244.1	245.0
29.5°	241.3	239.7	240.5	241.4	242.3	243.5
30°	239.5	238.2	238.4	239.8	240.6	241.7
30.5°	237.7	236.4	236.7	238.1	238.6	239.5
31°	235.9	234.7	234.7	236.3	236.8	237.4
31.5°	234.2	232.8	232.8	234.1	234.9	235.7
32°	231.8	230.8	230.7	232.1	233.1	233.9
32.5°	229.7	228.7	228.7	229.9	231.2	232.1
33°	227.7	226.2	226.8	228.1	229.3	230.3
33.5°	225.7	224.6	225.0	226.1	227.2	228.3
34°	223.8	222.2	222.8	223.9	225.3	226.4
34.5°	221.8	220.3	220.8	222.1	223.2	224.2
35°	219.9	218.5	218.7	220.0	221.3	222.0
35.5°	217.7	216.7	216.7	217.7	218.8	220.2
36°	215.2	214.4	214.7	215.9	216.9	217.6
36.5°	213.3	212.2	212.2	213.5	214.4	215.8
37°	211.4	210.1	209.8	211.4	212.6	213.6
37.5°	209.1	207.6	207.7	208.9	210.4	211.3
38°	206.5	205.1	205.6	206.7	208.0	208.6
38.5°	204.2	202.7	203.5	204.5	205.5	206.5
39°	201.9	200.4	200.8	202.1	203.1	204.2
39.5°	199.1	198.4	198.5	200.0	200.6	201.6
40°	196.8	195.9	195.9	197.5	198.3	199.1
40.5°	194.4	193.5	193.8	195.0	195.6	196.9
41°	191.6	190.7	191.2	192.5	193.2	194.2
41.5°	189.3	187.6	188.8	190.0	190.7	191.6
42°	186.8	185.1	186.4	187.1	188.1	188.9
42.5°	183.8	182.7	183.4	184.4	185.7	186.2
43°	181.2	180.1	180.4	181.8	182.8	183.6
43.5°	178.3	177.5	177.5	179.1	180.1	180.8



TEST NUMBER: P639489

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	170.3	168.8	169.4	170.7	171.7	172.2
45.5°	167.4	166.1	166.6	168.0	168.6	169.4
46°	164.4	163.3	163.8	165.5	166.2	166.5
46.5°	161.4	160.5	161.3	162.3	163.0	163.4
47°	158.7	157.7	158.1	159.4	160.2	160.8
47.5°	155.7	154.7	155.5	156.7	157.0	157.5
48°	152.9	151.9	152.3	153.9	154.3	154.6
48.5°	149.8	149.0	149.7	150.5	151.2	151.7
49°	146.6	145.9	146.9	147.9	148.3	148.5
49.5°	143.8	143.2	143.9	145.0	145.1	145.6
50°	141.1	140.1	141.4	142.1	142.1	142.4
50.5°	137.9	137.3	138.2	139.2	139.5	139.6
51°	134.9	134.5	135.5	136.2	136.5	136.4
51.5°	131.9	131.7	132.2	133.4	133.5	133.5
52°	129.1	128.7	129.4	130.4	130.2	130.1
52.5°	126.1	125.9	126.7	127.4	127.3	127.2
53°	123.4	122.9	124.0	124.7	124.5	124.3
53.5°	120.4	119.9	120.9	121.6	121.5	121.2
54°	117.5	117.2	117.8	118.9	118.4	118.3
54.5°	114.6	114.1	114.7	116.0	115.6	115.5
55°	111.8	111.5	112.1	112.9	112.5	112.3
55.5°	108.8	108.4	109.3	109.8	109.7	109.3
56°	106.1	105.6	106.2	107.1	106.7	106.4
56.5°	103.2	102.6	103.3	104.4	104.0	103.6
57°	100.5	100.0	100.8	101.4	101.1	100.7
57.5°	97.5	96.9	98.0	98.4	98.1	97.7
58°	94.6	94.2	95.1	95.6	95.3	94.8
58.5°	91.9	91.5	92.2	92.9	92.4	92.1
59°	89.2	88.9	89.4	90.2	89.6	89.3
59.5°	86.4	86.0	86.9	87.4	87.0	86.6
60°	83.7	83.3	84.0	84.8	84.2	83.9
60.5°	81.2	80.6	81.4	82.0	81.6	81.2
61°	78.5	78.1	78.8	79.3	79.0	78.4
61.5°	75.7	75.6	76.2	76.7	76.3	75.9
62°	73.1	72.9	73.7	73.9	73.5	73.3
62.5°	70.6	70.4	71.1	71.4	70.9	70.6
63°	68.0	68.0	68.5	69.0	68.5	68.2
63.5°	65.5	65.6	66.3	66.5	66.0	65.7
64°	63.0	63.2	63.6	64.1	63.6	63.2
64.5°	60.6	60.7	61.3	61.6	61.2	60.9
65°	58.4	58.5	58.9	59.2	58.8	58.7
65.5°	56.1	56.1	56.8	56.8	56.5	56.3
66°	53.7	53.7	54.4	54.7	54.3	54.1



TEST NUMBER: P639489

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	47.2	47.3	47.8	48.0	47.9	47.8
68°	45.1	45.3	45.8	45.9	45.8	45.8
68.5°	43.0	43.2	43.6	43.9	43.8	43.8
69°	40.9	41.1	41.5	41.9	41.8	41.8
69.5°	38.9	39.1	39.6	39.8	39.8	39.8
70°	37.2	37.0	37.6	38.0	37.9	38.0
70.5°	35.4	35.1	35.8	36.0	36.1	36.2
71°	33.5	33.3	33.7	34.2	34.3	34.3
71.5°	31.7	31.5	31.9	32.3	32.4	32.5
72°	29.9	29.7	30.2	30.5	30.7	30.9
72.5°	28.3	27.9	28.3	28.7	28.9	29.1
73°	26.6	26.1	26.5	27.0	27.2	27.4
73.5°	25.0	24.5	24.8	25.3	25.7	25.9
74°	23.5	22.9	23.3	23.8	24.1	24.5
74.5°	21.9	21.5	21.8	22.2	22.6	23.0
75°	20.5	20.0	20.4	20.8	21.3	21.7
75.5°	19.1	18.7	19.0	19.5	19.8	20.2
76°	17.7	17.3	17.7	18.1	18.6	19.0
76.5°	16.5	16.1	16.4	16.9	17.3	17.8
77°	15.2	15.0	15.2	15.7	16.1	16.6
77.5°	14.1	13.8	14.2	14.6	15.0	15.5
78°	13.0	12.8	13.0	13.5	14.0	14.4
78.5°	12.1	11.9	12.2	12.6	13.0	13.4
79°	11.1	11.0	11.3	11.7	12.2	12.5
79.5°	10.2	10.2	10.4	10.8	11.3	11.7
80°	9.4	9.4	9.7	10.0	10.4	10.8
80.5°	8.6	8.7	8.9	9.3	9.7	10.1
81°	7.9	8.1	8.3	8.6	9.0	9.4
81.5°	7.4	7.5	7.7	8.0	8.3	8.6
82°	6.7	6.9	7.2	7.4	7.8	8.0
82.5°	6.2	6.4	6.5	6.8	7.2	7.5
83°	5.7	5.8	6.0	6.3	6.6	6.9
83.5°	5.1	5.3	5.4	5.8	6.1	6.3
84°	4.5	4.8	4.9	5.2	5.5	5.9
84.5°	4.0	4.2	4.3	4.7	5.0	5.3
85°	3.4	3.6	3.9	4.1	4.4	4.8
85.5°	2.9	3.1	3.3	3.6	3.9	4.2
86°	2.5	2.7	2.9	3.1	3.4	3.7
86.5°	2.0	2.1	2.4	2.6	3.0	3.2
87°	1.4	1.6	1.8	2.1	2.5	2.7
87.5°	1.0	1.1	1.4	1.6	1.9	2.2
88°	0.5	0.7	0.8	1.1	1.5	1.7
88.5°	0.1	0.3	0.5	0.7	1.0	1.3



TEST NUMBER: P639489

CATALOG NUMBER: RL56069FSD2W1EWH -600LM -2700K

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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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°	268.7	270.1	270.9	271.9	272.1	272.5	272.3	270.8	269.8	269.4	268.2
22°	267.0	268.5	269.3	270.8	270.6	271.5	270.8	270.0	268.6	268.2	266.6



44°	177.7	180.2	182.0	183.3	183.8	183.9	182.8	181.6	179.7	178.7	176.8
44.5°	175.3	177.4	178.7	180.2	180.8	180.6	180.2	178.9	177.1	175.4	173.7



66.5°	51.9	52.6	53.5	54.0	53.9	53.5	52.8	52.1	51.5	51.4	51.2
67°	49.9	50.4	51.3	51.8	51.8	51.2	50.5	49.9	49.3	49.2	49.0



89°	0.8	1.1	1.3	1.4	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°	267.4	266.2	266.4	267.0	267.7	268.7
22°	265.6	264.4	265.2	265.8	266.1	267.0



44°	175.6	174.6	174.9	176.5	177.5	177.7
44.5°	173.1	171.6	172.1	174.0	174.5	175.3



66.5°	51.5	51.6	52.1	52.4	52.1	51.9
67°	49.3	49.5	50.0	50.2	50.0	49.9

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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)