

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: P710072

Luminaire Tested: RA4LS9FSD2W1EWHDM-600lm-2700K

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P710072  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2304405A001)  
Test Lab: EVERFINE  
Issue Date: 10/6/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: RA4LS9FSD2W1EWHDM-600lm-2700K  
Description: 4IN DM SELECTABLE LUMENS  
Light Source: SELECTABLE LUMEN/CCT LEDs 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

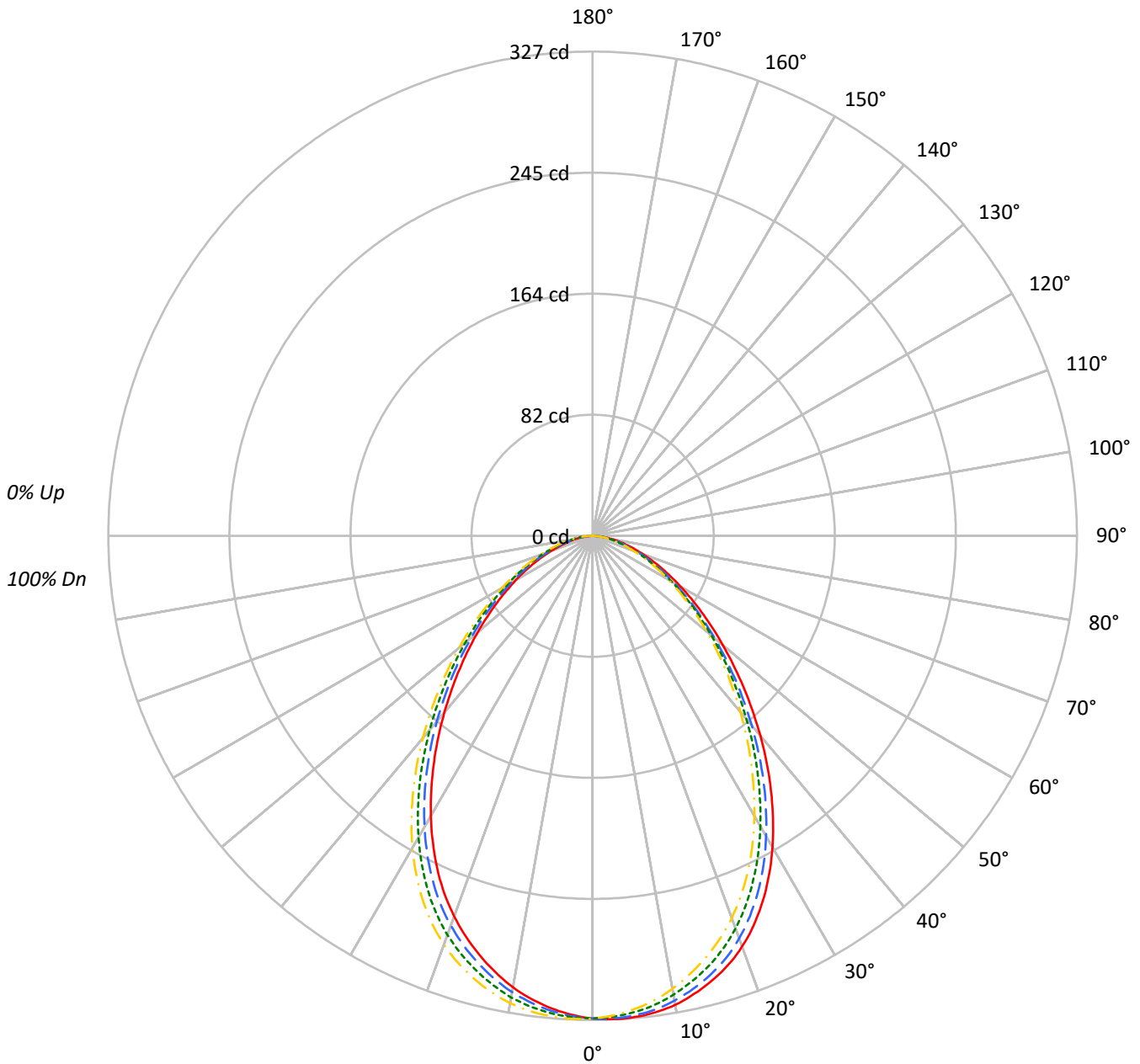
Lumens per Lamp: 896.88 (1 lamp)  
Luminaire Lumens: 615.0 lumens  
Efficiency: 68.6%  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.09 / 1.14  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 6.1  
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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CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-2700K

### 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	82	82	82	82	80	80	80	80	76	76	76	73	73	73	70	70	70	69								
1	76	73	70	68	74	71	69	67	69	67	65	66	64	63	64	62	61	60								
2	70	65	61	58	68	64	60	57	61	58	56	59	57	54	57	55	53	52								
3	65	58	53	49	63	57	53	49	55	51	48	53	50	47	52	49	47	45								
4	60	52	47	43	58	52	47	43	50	46	42	48	45	42	47	44	41	40								
5	55	47	42	38	54	47	42	38	45	41	37	44	40	37	43	39	37	35								
6	52	43	38	34	50	43	37	34	41	37	33	40	36	33	39	36	33	31								
7	48	40	34	30	47	39	34	30	38	33	30	37	33	30	36	32	30	28								
8	45	37	31	27	44	36	31	27	35	31	27	34	30	27	34	30	27	26								
9	42	34	29	25	41	33	28	25	33	28	25	32	28	25	31	27	25	23								
10	40	31	26	23	39	31	26	23	30	26	23	30	26	23	29	25	23	22								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	41027	41027	41027	41027
5°	41222	40805	40464	40893
10°	41098	40216	39564	40459
15°	40533	39243	38266	39595
20°	39535	37781	36629	38397
25°	37770	35631	34465	36603
30°	35298	32915	31752	34164
35°	32263	29790	28684	31249
40°	28931	26548	25579	28109
45°	25576	23386	22568	24953
50°	22457	20479	19794	21987
55°	19681	17816	17290	19330
60°	17292	15429	15077	16965
65°	15157	13192	12924	14949
70°	13283	11112	10855	12989
75°	11573	9141	8898	11232
80°	9856	7900	7465	9856
85°	6642	6787	2744	10108

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 300°  
 Vertical Angle: 45°  
 Luminance: 26092 cd/sqm



TEST NUMBER: P710072  
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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	30.6	5.0	3.4
10°-20°	85.1	13.8	9.5
20°-30°	119.2	19.4	13.3
30°-40°	123.8	20.1	13.8
40°-50°	104.7	17.0	11.7
50°-60°	75.9	12.3	8.5
60°-70°	47.1	7.7	5.3
70°-80°	22.7	3.7	2.5
80°-90°	5.8	0.9	0.6
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	234.9	38.2	26.2
0°-40°	358.8	58.3	40.0
0°-60°	539.4	87.7	60.1
0°-90°	615.0	100.0	68.6
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	615.0	100.0	68.6

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	326	326	326	326	326	
5°	326	323	320	324	326	31
15°	311	301	294	304	311	88
25°	272	257	248	264	272	125
35°	210	194	187	203	210	131
45°	144	131	127	140	144	111
55°	90	81	79	88	90	81
65°	51	44	43	50	51	51
75°	24	19	18	23	24	25
85°	5	5	2	7	5	6
90°	0	0	0	0	0	



TEST NUMBER: P710072

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0
0.5°	326.2	326.3	326.2	325.8	325.6	325.7	325.7	325.9	326.0	325.9	326.1
1°	326.5	326.5	326.2	325.7	325.4	325.4	325.3	325.7	325.8	325.8	326.2
1.5°	326.6	326.6	326.2	325.6	325.1	325.0	324.9	325.3	325.5	325.8	326.3
2°	326.7	326.6	326.1	325.3	324.7	324.6	324.3	324.9	325.2	325.6	326.3
2.5°	326.8	326.6	325.9	325.1	324.2	324.1	323.8	324.5	324.9	325.4	326.3
3°	326.8	326.5	325.8	324.7	323.7	323.5	323.2	324.0	324.6	325.2	326.2
3.5°	326.8	326.4	325.5	324.3	323.2	323.0	322.5	323.4	324.1	324.9	326.1
4°	326.7	326.2	325.3	324.0	322.6	322.3	321.9	322.8	323.6	324.5	325.9
4.5°	326.5	325.9	324.9	323.5	322.0	321.6	321.1	322.2	323.0	324.1	325.7
5°	326.3	325.7	324.6	323.0	321.2	320.7	320.3	321.5	322.4	323.7	325.4
5.5°	326.2	325.3	324.1	322.5	320.5	320.0	319.5	320.7	321.9	323.1	325.1
6°	325.8	325.0	323.7	321.9	319.8	319.1	318.5	319.9	321.1	322.6	324.7
6.5°	325.5	324.6	323.2	321.2	318.9	318.2	317.6	319.0	320.4	322.0	324.2
7°	325.1	324.1	322.6	320.5	318.0	317.2	316.6	318.2	319.6	321.4	323.8
7.5°	324.7	323.5	322.0	319.6	317.0	316.1	315.6	317.3	318.8	320.8	323.2
8°	324.1	323.0	321.2	318.8	316.0	315.0	314.5	316.3	317.9	320.0	322.7
8.5°	323.6	322.3	320.4	317.8	314.9	313.9	313.5	315.3	317.0	319.2	322.1
9°	323.0	321.6	319.6	316.8	313.6	312.7	312.2	314.2	316.1	318.3	321.4
9.5°	322.4	320.8	318.6	315.8	312.3	311.5	311.0	313.1	315.1	317.5	320.7
10°	321.6	319.9	317.7	314.7	311.0	310.1	309.6	312.0	313.9	316.6	319.9
10.5°	320.8	319.0	316.6	313.5	309.7	308.7	308.3	310.7	312.9	315.5	319.0
11°	319.9	318.0	315.6	312.3	308.3	307.3	306.9	309.5	311.7	314.4	318.1
11.5°	319.0	317.0	314.5	311.1	306.9	305.8	305.3	308.1	310.4	313.3	317.1
12°	318.0	316.0	313.4	309.8	305.5	304.3	303.8	306.7	309.1	312.0	316.0
12.5°	316.9	314.9	312.2	308.5	303.9	302.7	302.2	305.2	307.9	310.8	314.9
13°	315.9	313.7	310.9	307.2	302.4	301.1	300.5	303.6	306.4	309.5	313.8
13.5°	314.8	312.5	309.7	305.8	300.8	299.4	298.9	302.0	304.9	308.2	312.6
14°	313.6	311.3	308.3	304.2	299.2	297.7	297.2	300.4	303.4	306.8	311.4
14.5°	312.4	310.0	306.9	302.8	297.5	296.0	295.5	298.8	302.0	305.3	310.2
15°	311.1	308.6	305.5	301.2	295.8	294.2	293.7	297.1	300.2	303.9	308.7
15.5°	309.8	307.2	304.0	299.7	294.0	292.3	291.8	295.4	298.7	302.4	307.4
16°	308.4	305.7	302.4	298.0	292.3	290.5	289.9	293.6	297.0	300.8	305.9
16.5°	307.0	304.2	300.8	296.2	290.3	288.5	288.1	291.8	295.3	299.3	304.5
17°	305.5	302.5	299.2	294.4	288.4	286.7	286.1	290.0	293.6	297.6	303.0
17.5°	304.0	300.9	297.4	292.6	286.4	284.7	284.1	288.0	291.8	295.9	301.4
18°	302.4	299.2	295.6	290.6	284.4	282.6	282.0	286.1	289.9	294.2	299.8
18.5°	300.8	297.3	293.6	288.6	282.2	280.4	280.0	284.1	288.1	292.4	298.1
19°	299.0	295.4	291.6	286.5	280.0	278.3	277.9	282.2	286.2	290.5	296.5
19.5°	297.1	293.4	289.5	284.4	277.8	276.2	275.7	280.0	284.2	288.6	294.7
20°	295.2	291.3	287.5	282.1	275.5	273.9	273.5	277.9	282.1	286.7	292.8
20.5°	293.2	289.1	285.2	279.9	273.0	271.5	271.1	275.7	280.1	284.7	290.9
21°	291.1	286.9	282.9	277.5	270.7	269.2	268.8	273.6	277.9	282.6	288.9



TEST NUMBER: P710072

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
22.5°	284.4	279.9	275.8	270.1	263.0	261.6	261.5	266.6	271.1	275.9	282.6
23°	282.0	277.3	273.1	267.5	260.4	259.0	259.0	264.2	268.6	273.6	280.2
23.5°	279.6	274.7	270.5	264.9	257.6	256.3	256.3	261.6	266.2	271.1	277.9
24°	277.2	272.1	267.9	262.2	254.8	253.6	253.7	259.0	263.7	268.8	275.5
24.5°	274.5	269.5	265.3	259.5	252.0	250.9	250.9	256.4	261.0	266.2	273.1
25°	272.0	266.8	262.5	256.6	249.2	248.0	248.2	253.7	258.3	263.6	270.6
25.5°	269.3	264.0	259.7	253.9	246.3	245.2	245.3	251.0	255.7	260.9	268.0
26°	266.6	261.1	256.7	251.0	243.4	242.3	242.4	248.2	252.9	258.2	265.4
26.5°	263.8	258.2	253.9	248.0	240.4	239.5	239.6	245.3	250.2	255.5	262.7
27°	260.9	255.2	250.9	245.0	237.5	236.4	236.6	242.5	247.2	252.7	259.9
27.5°	258.1	252.2	247.9	242.1	234.4	233.4	233.6	239.6	244.5	249.9	257.2
28°	255.1	249.2	244.8	239.0	231.4	230.4	230.7	236.6	241.5	247.0	254.3
28.5°	252.1	246.0	241.7	235.9	228.3	227.3	227.7	233.7	238.6	244.1	251.5
29°	249.0	242.8	238.6	232.8	225.2	224.2	224.6	230.7	235.7	241.2	248.6
29.5°	246.0	239.7	235.4	229.6	222.0	221.0	221.5	227.5	232.7	238.2	245.7
30°	242.9	236.4	232.2	226.5	218.9	217.9	218.5	224.5	229.6	235.1	242.7
30.5°	239.8	233.2	229.0	223.3	215.7	214.8	215.2	221.4	226.5	232.0	239.6
31°	236.6	229.9	225.7	220.1	212.5	211.6	212.2	218.3	223.4	229.0	236.5
31.5°	233.3	226.6	222.4	216.9	209.3	208.5	209.0	215.2	220.3	225.7	233.4
32°	230.0	223.1	219.1	213.6	206.2	205.3	205.9	212.0	217.1	222.7	230.2
32.5°	226.7	219.8	215.7	210.3	202.9	202.1	202.6	208.9	213.9	219.5	227.1
33°	223.4	216.4	212.5	207.1	199.7	199.0	199.4	205.7	210.7	216.3	223.9
33.5°	220.2	212.9	209.1	203.9	196.4	195.8	196.3	202.5	207.5	213.1	220.7
34°	216.7	209.6	205.8	200.5	193.1	192.6	193.0	199.3	204.3	209.9	217.5
34.5°	213.4	206.2	202.4	197.2	189.9	189.4	189.9	196.1	201.0	206.6	214.2
35°	210.0	202.7	199.0	193.9	186.7	186.3	186.7	192.9	197.9	203.4	211.0
35.5°	206.6	199.3	195.6	190.7	183.5	183.1	183.6	189.7	194.7	200.2	207.7
36°	203.2	195.8	192.3	187.4	180.3	179.9	180.5	186.5	191.4	197.0	204.4
36.5°	199.8	192.3	188.9	184.1	177.1	176.7	177.3	183.3	188.1	193.6	201.1
37°	196.4	189.0	185.5	180.9	173.9	173.7	174.1	180.1	184.9	190.4	197.9
37.5°	192.9	185.5	182.1	177.6	170.8	170.4	171.1	177.0	181.7	187.2	194.6
38°	189.5	182.1	178.8	174.4	167.6	167.3	168.0	173.8	178.5	184.0	191.3
38.5°	186.2	178.6	175.5	171.1	164.5	164.3	164.9	170.6	175.4	180.7	188.0
39°	182.8	175.3	172.2	167.9	161.4	161.2	161.7	167.5	172.1	177.4	184.6
39.5°	179.4	172.0	168.8	164.7	158.3	158.1	158.7	164.4	169.0	174.2	181.4
40°	176.1	168.6	165.6	161.6	155.2	155.1	155.7	161.4	165.8	171.1	178.2
40.5°	172.8	165.3	162.4	158.4	152.2	152.1	152.7	158.3	162.7	167.8	175.0
41°	169.3	162.0	159.1	155.3	149.2	149.1	149.7	155.3	159.5	164.7	171.7
41.5°	166.1	158.7	155.8	152.2	146.2	146.1	146.7	152.2	156.5	161.6	168.5
42°	162.7	155.4	152.6	149.2	143.2	143.2	143.8	149.3	153.4	158.5	165.3
42.5°	159.5	152.1	149.5	146.0	140.2	140.3	140.9	146.3	150.4	155.3	162.1
43°	156.3	149.0	146.4	143.0	137.4	137.4	138.0	143.3	147.4	152.2	159.0
43.5°	153.1	145.9	143.4	140.1	134.5	134.6	135.1	140.4	144.3	149.2	155.9



TEST NUMBER: P710072

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**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	143.7	136.6	134.2	131.4	126.0	126.4	126.8	132.0	135.6	140.2	146.6
45.5°	140.6	133.5	131.3	128.5	123.3	123.7	124.1	129.2	132.7	137.3	143.6
46°	137.5	130.5	128.4	125.8	120.6	121.0	121.4	126.4	129.9	134.3	140.6
46.5°	134.6	127.6	125.7	123.1	117.9	118.3	118.8	123.7	127.1	131.5	137.6
47°	131.6	124.7	122.9	120.4	115.2	115.6	116.2	121.0	124.3	128.7	134.7
47.5°	128.7	121.9	120.1	117.7	112.7	113.3	113.6	118.3	121.6	125.8	131.8
48°	125.9	119.1	117.3	115.0	110.1	110.7	111.0	115.6	118.9	123.0	129.0
48.5°	123.1	116.3	114.5	112.3	107.5	108.2	108.5	113.2	116.2	120.3	126.3
49°	120.3	113.5	111.8	109.7	105.1	105.8	106.1	110.6	113.5	117.6	123.6
49.5°	117.5	110.9	109.2	107.1	102.6	103.3	103.5	108.1	110.9	114.9	120.9
50°	114.7	108.3	106.6	104.6	100.1	100.9	101.1	105.6	108.4	112.3	118.2
50.5°	112.1	105.7	104.0	102.1	97.7	98.5	98.8	103.2	105.9	109.7	115.5
51°	109.4	103.0	101.5	99.6	95.4	96.2	96.5	100.8	103.5	107.2	112.7
51.5°	106.8	100.5	99.0	97.2	93.1	93.8	94.2	98.4	101.0	104.7	110.1
52°	104.2	98.2	96.6	94.8	90.8	91.6	91.9	96.1	98.6	102.2	107.5
52.5°	101.8	95.8	94.3	92.4	88.5	89.3	89.6	93.7	96.2	99.8	105.0
53°	99.3	93.4	91.9	90.1	86.3	87.1	87.3	91.4	93.8	97.4	102.5
53.5°	96.8	91.0	89.5	87.9	84.1	84.9	85.2	89.2	91.5	95.0	100.1
54°	94.4	88.8	87.3	85.6	82.0	82.8	83.0	87.0	89.3	92.7	97.6
54.5°	92.1	86.5	85.0	83.5	79.9	80.7	80.9	84.8	87.1	90.4	95.2
55°	89.7	84.3	82.8	81.2	77.8	78.6	78.8	82.7	84.9	88.1	92.9
55.5°	87.5	82.1	80.7	79.1	75.7	76.5	76.8	80.5	82.7	85.9	90.6
56°	85.2	80.0	78.5	77.0	73.7	74.5	74.7	78.5	80.6	83.7	88.3
56.5°	83.0	77.8	76.5	74.9	71.7	72.5	72.7	76.4	78.5	81.5	86.1
57°	80.9	75.8	74.4	72.9	69.7	70.6	70.8	74.4	76.4	79.4	83.9
57.5°	78.8	73.8	72.4	70.9	67.8	68.6	68.8	72.4	74.4	77.3	81.7
58°	76.6	71.8	70.4	68.9	65.8	66.7	66.9	70.4	72.4	75.3	79.6
58.5°	74.6	69.8	68.4	66.9	63.9	64.8	65.0	68.5	70.4	73.3	77.5
59°	72.6	67.9	66.5	65.1	62.2	63.0	63.3	66.6	68.5	71.3	75.5
59.5°	70.6	66.0	64.7	63.2	60.5	61.1	61.6	64.7	66.5	69.3	73.5
60°	68.7	64.2	62.8	61.3	58.8	59.3	59.9	62.9	64.6	67.4	71.4
60.5°	66.7	62.5	61.0	59.5	57.1	57.5	58.2	61.0	62.9	65.5	69.5
61°	64.8	60.8	59.2	57.7	55.4	55.8	56.5	59.3	61.2	63.6	67.5
61.5°	63.0	59.2	57.4	55.9	53.7	54.1	54.8	57.5	59.5	61.9	65.6
62°	61.2	57.5	55.7	54.2	52.0	52.4	53.0	55.7	57.8	60.3	63.7
62.5°	59.4	55.8	54.0	52.5	50.3	50.7	51.4	54.1	56.1	58.6	61.9
63°	57.7	54.1	52.4	50.8	48.7	49.1	49.7	52.4	54.4	57.0	60.1
63.5°	55.9	52.5	50.7	49.2	47.1	47.5	48.1	50.7	52.7	55.2	58.3
64°	54.2	50.9	49.1	47.6	45.5	45.9	46.5	49.1	51.1	53.5	56.5
64.5°	52.6	49.3	47.5	45.9	43.9	44.3	45.0	47.5	49.5	51.9	54.9
65°	50.9	47.7	45.9	44.3	42.4	42.8	43.4	45.9	47.9	50.2	53.1
65.5°	49.3	46.2	44.4	42.8	40.9	41.3	41.9	44.3	46.3	48.6	51.5
66°	47.7	44.7	42.9	41.3	39.4	39.8	40.4	42.8	44.7	47.1	49.8





TEST NUMBER: P710072

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
67.5°	43.2	40.3	38.5	36.9	35.1	35.5	36.1	38.4	40.2	42.5	45.0
68°	41.7	38.9	37.2	35.6	33.8	34.1	34.7	37.0	38.8	41.0	43.5
68.5°	40.3	37.5	35.8	34.1	32.4	32.7	33.4	35.6	37.4	39.5	42.0
69°	38.8	36.2	34.4	32.8	31.1	31.4	32.1	34.2	36.0	38.1	40.6
69.5°	37.4	34.8	33.1	31.5	29.8	30.2	30.8	32.9	34.6	36.7	39.1
70°	36.1	33.5	31.8	30.2	28.5	28.9	29.5	31.5	33.3	35.3	37.7
70.5°	34.7	32.2	30.5	28.9	27.3	27.6	28.2	30.3	32.0	34.0	36.2
71°	33.4	31.0	29.2	27.7	26.1	26.4	27.0	29.0	30.7	32.7	34.9
71.5°	32.1	29.7	28.0	26.5	24.9	25.2	25.8	27.8	29.4	31.4	33.5
72°	30.8	28.5	26.9	25.3	23.8	24.1	24.6	26.6	28.2	30.1	32.2
72.5°	29.6	27.3	25.7	24.1	22.6	23.0	23.5	25.4	27.0	28.9	30.9
73°	28.4	26.2	24.5	23.0	21.6	21.9	22.4	24.3	25.8	27.7	29.6
73.5°	27.2	25.0	23.4	21.9	20.5	20.8	21.4	23.1	24.7	26.5	28.4
74°	26.0	23.9	22.3	20.9	19.5	19.8	20.4	22.0	23.5	25.3	27.1
74.5°	24.9	22.8	21.3	19.8	18.5	18.8	19.3	21.0	22.5	24.2	26.0
75°	23.8	21.8	20.3	18.8	17.5	17.8	18.3	20.0	21.4	23.1	24.8
75.5°	22.7	20.8	19.3	17.9	16.6	16.8	17.4	19.0	20.4	22.0	23.7
76°	21.6	19.8	18.3	16.9	15.7	16.0	16.5	18.0	19.4	21.0	22.6
76.5°	20.6	18.8	17.4	16.0	14.9	15.1	15.7	17.1	18.4	20.0	21.5
77°	19.6	17.8	16.5	15.2	14.1	14.3	14.8	16.2	17.5	19.0	20.4
77.5°	18.6	16.9	15.6	14.3	13.4	13.6	14.1	15.4	16.6	18.0	19.4
78°	17.6	16.0	14.8	13.5	12.7	12.9	13.3	14.6	15.7	17.1	18.4
78.5°	16.7	15.2	13.9	12.8	12.1	12.3	12.5	13.8	14.9	16.2	17.5
79°	15.7	14.3	13.1	12.1	11.5	11.7	11.8	13.1	14.1	15.3	16.6
79.5°	14.7	13.5	12.4	11.5	10.9	11.0	11.1	12.4	13.3	14.4	15.7
80°	13.6	12.6	11.6	10.9	10.3	10.4	10.3	11.7	12.6	13.6	14.7
80.5°	12.6	11.8	11.0	10.3	9.7	9.6	9.4	11.0	12.0	12.8	13.9
81°	11.5	10.9	10.3	9.7	9.0	8.9	8.6	10.3	11.3	12.1	13.1
81.5°	10.5	10.1	9.7	9.0	8.4	8.1	7.7	9.5	10.7	11.4	12.3
82°	9.6	9.4	9.1	8.4	7.8	7.4	6.8	8.7	10.1	10.8	11.5
82.5°	8.7	8.6	8.5	7.8	7.2	6.7	5.9	7.9	9.4	10.2	10.8
83°	7.9	7.9	7.9	7.2	6.5	5.9	5.2	7.1	8.8	9.5	10.1
83.5°	7.1	7.2	7.3	6.5	5.9	5.1	4.3	6.3	8.1	8.9	9.4
84°	6.2	6.5	6.6	5.9	5.2	4.4	3.4	5.5	7.5	8.2	8.8
84.5°	5.4	5.7	6.0	5.2	4.7	3.8	2.6	4.7	6.8	7.6	8.2
85°	4.6	5.0	5.3	4.7	4.1	3.1	1.9	3.9	6.2	7.0	7.6
85.5°	3.8	4.3	4.8	4.1	3.4	2.6	1.1	3.3	5.5	6.3	6.9
86°	2.9	3.6	4.2	3.3	2.8	2.1	0.6	2.6	4.9	5.6	6.2
86.5°	2.2	3.0	3.5	2.5	2.1	1.7	0.5	2.0	4.2	4.9	5.6
87°	1.4	2.5	2.9	1.9	1.5	1.4	0.4	1.6	3.5	4.1	5.0
87.5°	0.8	2.0	2.2	1.1	0.9	0.9	0.2	1.3	2.8	3.3	4.3
88°	0.5	1.6	1.6	0.4	0.4	0.5	0.2	1.0	2.1	2.5	3.6
88.5°	0.5	1.3	1.0	0.2	0.0	0.1	0.1	0.7	1.5	1.9	2.8



TEST NUMBER: P710072

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.9



TEST NUMBER: P710072  
CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
0°	326.0	326.0
0.5°	326.3	326.2
1°	326.4	326.5
1.5°	326.6	326.6
2°	326.6	326.7
2.5°	326.8	326.8
3°	326.7	326.8
3.5°	326.7	326.8
4°	326.5	326.7
4.5°	326.3	326.5
5°	326.1	326.3
5.5°	325.8	326.2
6°	325.5	325.8
6.5°	325.1	325.5
7°	324.7	325.1
7.5°	324.3	324.7
8°	323.7	324.1
8.5°	323.2	323.6
9°	322.5	323.0
9.5°	321.8	322.4
10°	321.1	321.6
10.5°	320.3	320.8
11°	319.4	319.9
11.5°	318.5	319.0
12°	317.4	318.0
12.5°	316.4	316.9
13°	315.3	315.9
13.5°	314.1	314.8
14°	313.0	313.6
14.5°	311.7	312.4
15°	310.5	311.1
15.5°	309.1	309.8
16°	307.7	308.4
16.5°	306.3	307.0
17°	304.8	305.5
17.5°	303.4	304.0
18°	301.8	302.4
18.5°	300.1	300.8
19°	298.4	299.0
19.5°	296.7	297.1
20°	294.7	295.2
20.5°	292.8	293.2
21°	290.7	291.1



TEST NUMBER: P710072  
CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
22.5°	284.2	284.4
23°	281.9	282.0
23.5°	279.6	279.6
24°	277.1	277.2
24.5°	274.7	274.5
25°	272.1	272.0
25.5°	269.5	269.3
26°	266.8	266.6
26.5°	264.1	263.8
27°	261.4	260.9
27.5°	258.5	258.1
28°	255.7	255.1
28.5°	252.8	252.1
29°	249.8	249.0
29.5°	246.8	246.0
30°	243.8	242.9
30.5°	240.7	239.8
31°	237.6	236.6
31.5°	234.5	233.3
32°	231.3	230.0
32.5°	228.1	226.7
33°	224.8	223.4
33.5°	221.6	220.2
34°	218.3	216.7
34.5°	215.1	213.4
35°	211.7	210.0
35.5°	208.4	206.6
36°	205.0	203.2
36.5°	201.7	199.8
37°	198.4	196.4
37.5°	195.1	192.9
38°	191.7	189.5
38.5°	188.4	186.2
39°	185.1	182.8
39.5°	181.7	179.4
40°	178.5	176.1
40.5°	175.3	172.8
41°	172.0	169.3
41.5°	168.6	166.1
42°	165.4	162.7
42.5°	162.2	159.5
43°	159.0	156.3
43.5°	155.8	153.1



TEST NUMBER: P710072

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
45°	146.4	143.7
45.5°	143.3	140.6
46°	140.3	137.5
46.5°	137.3	134.6
47°	134.4	131.6
47.5°	131.5	128.7
48°	128.6	125.9
48.5°	125.7	123.1
49°	122.8	120.3
49.5°	120.1	117.5
50°	117.3	114.7
50.5°	114.6	112.1
51°	112.0	109.4
51.5°	109.3	106.8
52°	106.8	104.2
52.5°	104.2	101.8
53°	101.7	99.3
53.5°	99.2	96.8
54°	96.8	94.4
54.5°	94.4	92.1
55°	92.0	89.7
55.5°	89.7	87.5
56°	87.4	85.2
56.5°	85.2	83.0
57°	83.0	80.9
57.5°	80.8	78.8
58°	78.6	76.6
58.5°	76.5	74.6
59°	74.4	72.6
59.5°	72.4	70.6
60°	70.4	68.7
60.5°	68.4	66.7
61°	66.5	64.8
61.5°	64.6	63.0
62°	62.9	61.2
62.5°	61.2	59.4
63°	59.4	57.7
63.5°	57.7	55.9
64°	56.0	54.2
64.5°	54.2	52.6
65°	52.5	50.9
65.5°	50.9	49.3
66°	49.3	47.7



TEST NUMBER: P710072  
CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
67.5°	44.5	43.2
68°	43.0	41.7
68.5°	41.5	40.3
69°	40.1	38.8
69.5°	38.6	37.4
70°	37.2	36.1
70.5°	35.8	34.7
71°	34.5	33.4
71.5°	33.1	32.1
72°	31.8	30.8
72.5°	30.6	29.6
73°	29.3	28.4
73.5°	28.1	27.2
74°	26.9	26.0
74.5°	25.7	24.9
75°	24.6	23.8
75.5°	23.5	22.7
76°	22.4	21.6
76.5°	21.3	20.6
77°	20.3	19.6
77.5°	19.3	18.6
78°	18.3	17.6
78.5°	17.3	16.7
79°	16.4	15.7
79.5°	15.5	14.7
80°	14.5	13.6
80.5°	13.5	12.6
81°	12.6	11.5
81.5°	11.7	10.5
82°	10.8	9.6
82.5°	10.0	8.7
83°	9.2	7.9
83.5°	8.4	7.1
84°	7.6	6.2
84.5°	6.8	5.4
85°	6.1	4.6
85.5°	5.3	3.8
86°	4.6	2.9
86.5°	3.9	2.2
87°	3.2	1.4
87.5°	2.6	0.8
88°	2.2	0.5
88.5°	1.8	0.5

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



TEST NUMBER: P710072  
CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
90°	0.7	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



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - · 135°-315°

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
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1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





21.5°	289.0	284.6	280.6	275.1	268.1	266.7	266.5	271.3	275.7	280.5	286.9
22°	286.7	282.2	278.1	272.6	265.7	264.2	264.1	269.0	273.5	278.2	284.7



44°	149.9	142.7	140.2	137.2	131.7	131.9	132.3	137.6	141.4	146.2	152.7
44.5°	146.8	139.6	137.2	134.2	128.8	129.1	129.5	134.7	138.5	143.2	149.6



66.5°	46.2	43.2	41.5	39.9	38.0	38.4	39.0	41.3	43.2	45.5	48.2
67°	44.6	41.8	39.9	38.4	36.5	36.9	37.5	39.8	41.7	43.9	46.6



89°	0.3	0.9	0.5	0.0	0.0	0.0	0.0	0.3	1.1	1.1	2.1
89.5°	0.2	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.6	0.5	1.5



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Peachtree City, GA 30269

Scaled Data Report



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1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



21.5°	288.7	289.0
22°	286.5	286.7



44°	152.7	149.9
44.5°	149.5	146.8

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Peachtree City, GA 30269

Scaled Data Report



66.5°	47.7	46.2
67°	46.1	44.6

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Scaled Data Report



89°	1.4	0.3
89.5°	1.1	0.2

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1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)