

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: P710063

Luminaire Tested: RA4LS9FSD2W1EWH-600lm-3000K

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P710063  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2304449A001)  
Test Lab: EVERFINE  
Issue Date: 10/6/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: RA4LS9FSD2W1EWH-600lm-3000K  
Description: 4IN RETROFIT SELECTABLE LUMENS  
Light Source: SELECTABLE LUMEN/CCT LEDs 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

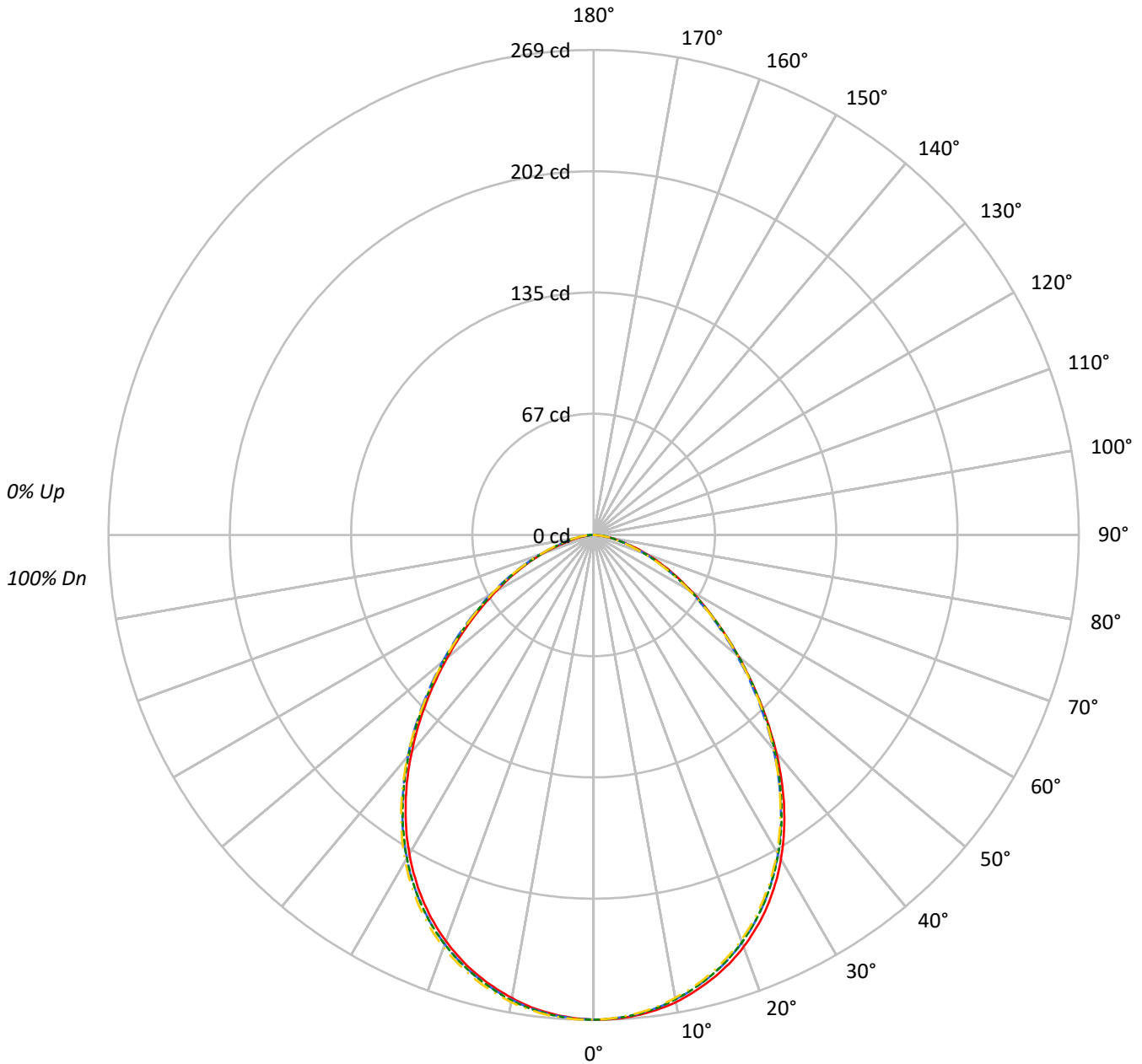
Lumens per Lamp: 920.71 (1 lamp)  
Luminaire Lumens: 560.0 lumens  
Efficiency: 60.8%  
Efficacy: 100.0 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.22  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.6  
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									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	72	72	72	72	71	71	71	71	68	68	68	65	65	65	62	62	62	61																			
1	67	65	62	60	66	63	61	59	61	59	58	58	57	56	56	55	54	53																			
2	62	57	54	51	60	56	53	50	54	51	49	52	50	48	51	49	47	46																			
3	57	51	47	43	56	50	46	43	49	45	42	47	44	42	45	43	41	40																			
4	53	46	41	38	51	45	41	37	44	40	37	42	39	36	41	38	36	35																			
5	49	42	37	33	48	41	36	33	40	36	32	39	35	32	37	34	32	31																			
6	45	38	33	29	44	37	33	29	36	32	29	35	31	29	34	31	28	27																			
7	42	35	30	26	41	34	29	26	33	29	26	32	29	26	32	28	25	24																			
8	39	32	27	24	38	31	27	23	31	26	23	30	26	23	29	26	23	22																			
9	37	29	25	21	36	29	24	21	28	24	21	28	24	21	27	24	21	20																			
10	35	27	23	20	34	27	22	20	26	22	19	26	22	19	25	22	19	18																			

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

	0°	90°	180°	270°
0°	33841	33841	33841	33841
5°	33806	33730	33680	33768
10°	33622	33417	33328	33507
15°	33198	32937	32833	33015
20°	32558	32196	32102	32357
25°	31577	31160	31077	31410
30°	30183	29732	29703	30096
35°	28269	27885	27931	28376
40°	25875	25661	25776	26220
45°	23191	23137	23315	23760
50°	20538	20538	20753	21184
55°	18036	17992	18211	18716
60°	15782	15580	15756	16235
65°	13728	13251	13460	13787
70°	11664	10965	11076	11260
75°	9239	8801	7877	8996
80°	7247	7392	6015	7537
85°	4332	5776	1733	6353

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 300°  
 Vertical Angle: 45°  
 Luminance: 24098 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	25.3	4.5	2.8
10°-20°	71.3	12.7	7.7
20°-30°	103.6	18.5	11.2
30°-40°	114.1	20.4	12.4
40°-50°	101.3	18.1	11.0
50°-60°	74.7	13.3	8.1
60°-70°	45.4	8.1	4.9
70°-80°	19.9	3.6	2.2
80°-90°	4.3	0.8	0.5
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°	200.2	35.7	21.7
0°-40°	314.3	56.1	34.1
0°-60°	490.3	87.6	53.3
0°-90°	560.0	100.0	60.8
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°	560.0	100.0	60.8

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	269	269	269	269	269	
5°	268	267	267	267	268	25
15°	255	253	252	253	255	72
25°	227	224	224	226	227	104
35°	184	182	182	185	184	115
45°	130	130	131	134	130	101
55°	82	82	83	85	82	74
65°	46	44	45	46	46	46
75°	19	18	16	18	19	21
85°	3	4	1	4	3	4
90°	0	0	0	0	0	



TEST NUMBER: P710063

CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	268.9	268.9	268.9	268.9	268.9	268.9	268.9	268.9	268.9	268.9	268.9
0.5°	268.9	268.7	268.7	268.9	268.8	268.8	268.8	268.8	268.7	268.9	268.9
1°	268.8	268.8	268.6	268.8	268.7	268.7	268.6	268.7	268.7	268.8	268.9
1.5°	268.8	268.7	268.5	268.7	268.6	268.6	268.5	268.6	268.6	268.8	268.9
2°	268.8	268.6	268.4	268.6	268.3	268.4	268.4	268.5	268.5	268.7	268.9
2.5°	268.7	268.4	268.1	268.4	268.1	268.2	268.2	268.3	268.4	268.5	268.8
3°	268.6	268.3	268.0	268.2	267.9	267.9	267.9	268.1	268.2	268.4	268.6
3.5°	268.4	268.0	267.7	268.0	267.6	267.7	267.6	267.8	268.0	268.2	268.5
4°	268.2	267.9	267.4	267.7	267.3	267.3	267.4	267.6	267.8	267.9	268.2
4.5°	268.0	267.6	267.1	267.4	267.0	267.0	267.0	267.3	267.4	267.6	268.0
5°	267.6	267.3	266.8	267.0	266.6	266.6	266.6	266.9	267.2	267.3	267.7
5.5°	267.4	266.9	266.4	266.7	266.1	266.2	266.2	266.6	266.8	266.9	267.5
6°	267.0	266.5	265.9	266.3	265.7	265.7	265.8	266.2	266.5	266.6	267.2
6.5°	266.7	266.2	265.5	265.8	265.2	265.3	265.3	265.8	266.0	266.1	266.8
7°	266.2	265.7	264.9	265.4	264.6	264.7	264.8	265.3	265.6	265.7	266.3
7.5°	265.8	265.2	264.4	264.9	264.0	264.2	264.3	264.8	265.1	265.2	265.9
8°	265.3	264.7	263.8	264.3	263.3	263.6	263.6	264.3	264.7	264.7	265.5
8.5°	264.8	264.1	263.2	263.6	262.7	263.0	263.0	263.6	264.0	264.1	265.0
9°	264.3	263.4	262.5	262.9	262.0	262.3	262.3	263.0	263.5	263.6	264.4
9.5°	263.8	262.8	261.8	262.2	261.3	261.6	261.6	262.3	262.8	262.9	263.8
10°	263.1	262.1	261.2	261.5	260.5	260.9	260.8	261.6	262.2	262.2	263.2
10.5°	262.4	261.3	260.4	260.8	259.7	260.1	260.1	260.8	261.4	261.5	262.5
11°	261.6	260.6	259.6	260.0	259.0	259.3	259.3	260.1	260.7	260.7	261.9
11.5°	260.9	259.8	258.8	259.2	258.2	258.4	258.5	259.3	259.9	259.9	261.1
12°	260.1	258.9	257.9	258.4	257.3	257.6	257.7	258.4	259.2	259.1	260.3
12.5°	259.3	258.2	257.0	257.5	256.4	256.7	256.7	257.6	258.3	258.1	259.5
13°	258.4	257.2	256.2	256.6	255.5	255.9	255.9	256.7	257.4	257.3	258.7
13.5°	257.6	256.4	255.2	255.7	254.5	254.9	255.0	255.7	256.5	256.3	257.8
14°	256.7	255.3	254.2	254.8	253.5	253.9	254.0	254.8	255.6	255.5	256.9
14.5°	255.8	254.4	253.2	253.7	252.5	252.9	253.0	253.9	254.6	254.4	255.9
15°	254.8	253.4	252.2	252.8	251.4	251.9	252.0	252.9	253.6	253.4	255.0
15.5°	253.8	252.4	251.2	251.7	250.4	250.7	250.9	251.8	252.6	252.4	253.9
16°	252.8	251.2	250.0	250.6	249.2	249.7	249.8	250.8	251.6	251.4	252.9
16.5°	251.7	250.2	248.9	249.4	248.0	248.5	248.7	249.6	250.5	250.2	251.8
17°	250.5	249.1	247.7	248.3	246.8	247.3	247.5	248.6	249.4	249.1	250.7
17.5°	249.5	247.9	246.4	247.1	245.6	246.1	246.3	247.4	248.2	248.0	249.6
18°	248.3	246.6	245.2	245.8	244.3	244.9	245.0	246.3	247.0	246.8	248.5
18.5°	247.1	245.4	243.9	244.5	243.0	243.6	243.7	245.0	245.8	245.5	247.3
19°	245.8	244.0	242.6	243.2	241.6	242.3	242.5	243.8	244.6	244.3	246.1
19.5°	244.5	242.8	241.2	241.8	240.3	240.9	241.1	242.4	243.3	242.9	244.8
20°	243.1	241.3	239.7	240.4	238.8	239.5	239.7	241.1	242.0	241.6	243.5
20.5°	241.8	239.9	238.3	239.0	237.4	238.0	238.2	239.7	240.6	240.2	242.2
21°	240.4	238.4	236.9	237.5	235.9	236.6	236.8	238.3	239.2	238.8	240.8



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CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
22.5°	235.8	233.9	232.1	232.9	231.1	231.9	232.2	233.7	234.8	234.4	236.4
23°	234.3	232.2	230.5	231.2	229.5	230.3	230.7	232.3	233.3	232.9	234.9
23.5°	232.7	230.5	228.7	229.6	227.7	228.7	229.0	230.6	231.7	231.2	233.4
24°	231.0	228.8	227.1	227.8	226.0	226.9	227.3	229.0	230.1	229.6	231.9
24.5°	229.3	227.0	225.3	226.1	224.3	225.2	225.6	227.3	228.4	227.9	230.1
25°	227.4	225.3	223.5	224.4	222.4	223.5	223.8	225.6	226.8	226.2	228.5
25.5°	225.7	223.4	221.7	222.5	220.6	221.6	222.0	223.9	225.0	224.4	226.7
26°	223.9	221.6	219.8	220.6	218.8	219.8	220.2	222.1	223.2	222.7	225.0
26.5°	222.0	219.7	217.9	218.7	217.0	218.0	218.4	220.2	221.5	220.9	223.1
27°	220.1	217.7	215.9	216.9	215.0	216.0	216.4	218.4	219.6	219.0	221.5
27.5°	218.1	215.8	214.0	214.9	213.0	214.0	214.4	216.5	217.8	217.1	219.5
28°	216.2	213.8	212.0	212.9	211.0	212.1	212.6	214.7	215.9	215.2	217.6
28.5°	214.1	211.7	209.9	210.9	209.0	210.1	210.5	212.6	214.0	213.2	215.6
29°	212.0	209.6	207.8	208.8	207.0	208.1	208.6	210.7	212.0	211.2	213.7
29.5°	209.9	207.5	205.7	206.7	204.9	205.9	206.5	208.7	210.0	209.2	211.7
30°	207.7	205.3	203.5	204.6	202.7	203.9	204.4	206.6	207.9	207.1	209.6
30.5°	205.5	203.0	201.3	202.5	200.4	201.8	202.2	204.5	205.8	205.0	207.5
31°	203.3	200.8	199.1	200.3	198.2	199.7	200.0	202.4	203.8	202.9	205.4
31.5°	201.0	198.5	196.7	198.0	196.1	197.4	197.9	200.2	201.7	200.7	203.2
32°	198.6	196.2	194.5	195.7	193.7	195.3	195.7	198.1	199.4	198.5	201.0
32.5°	196.2	193.8	192.1	193.5	191.5	193.0	193.3	195.8	197.2	196.2	198.7
33°	193.9	191.4	189.8	191.1	189.1	190.7	191.1	193.6	195.0	194.1	196.5
33.5°	191.5	189.0	187.4	188.8	186.8	188.4	188.8	191.3	192.7	191.7	194.2
34°	189.0	186.5	185.0	186.3	184.4	186.1	186.5	189.0	190.4	189.4	191.9
34.5°	186.5	184.1	182.5	183.9	182.0	183.7	184.1	186.7	188.1	187.0	189.4
35°	184.0	181.6	180.0	181.5	179.6	181.3	181.8	184.4	185.8	184.7	187.1
35.5°	181.5	179.0	177.5	179.1	177.2	178.8	179.4	182.0	183.4	182.2	184.7
36°	178.9	176.4	175.0	176.6	174.7	176.4	176.9	179.5	180.9	179.7	182.2
36.5°	176.3	173.9	172.5	174.1	172.2	173.9	174.4	177.2	178.5	177.3	179.8
37°	173.7	171.3	169.9	171.6	169.6	171.5	172.1	174.7	176.1	174.9	177.2
37.5°	171.0	168.6	167.4	169.1	167.1	169.0	169.5	172.3	173.6	172.3	174.8
38°	168.4	166.0	164.7	166.5	164.6	166.5	167.0	169.8	171.1	169.9	172.3
38.5°	165.6	163.4	162.2	163.9	162.1	163.9	164.5	167.3	168.6	167.3	169.6
39°	163.0	160.6	159.6	161.3	159.4	161.4	162.0	164.8	166.1	164.8	167.1
39.5°	160.3	158.0	157.0	158.8	156.9	158.8	159.4	162.3	163.6	162.1	164.5
40°	157.5	155.4	154.3	156.2	154.2	156.3	156.9	159.7	160.9	159.6	161.9
40.5°	154.8	152.7	151.7	153.6	151.7	153.7	154.3	157.2	158.4	157.0	159.2
41°	152.0	149.9	149.0	150.9	149.0	151.2	151.8	154.6	155.9	154.4	156.5
41.5°	149.3	147.3	146.4	148.3	146.4	148.5	149.2	152.0	153.4	151.8	154.0
42°	146.5	144.5	143.7	145.7	143.8	145.9	146.6	149.4	150.7	149.2	151.3
42.5°	143.8	141.9	141.1	143.0	141.2	143.2	144.0	146.8	148.1	146.6	148.6
43°	141.0	139.2	138.5	140.4	138.5	140.7	141.4	144.3	145.5	144.0	145.9
43.5°	138.4	136.6	135.9	137.7	135.9	138.0	138.8	141.7	143.0	141.3	143.3



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**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	130.3	128.6	128.1	130.0	128.1	130.3	131.0	134.0	135.2	133.5	135.4
45.5°	127.6	126.0	125.5	127.4	125.6	127.7	128.4	131.4	132.6	130.9	132.8
46°	125.0	123.3	122.9	124.7	122.9	125.1	125.9	128.7	130.0	128.3	130.2
46.5°	122.4	120.7	120.4	122.2	120.4	122.6	123.4	126.2	127.4	125.8	127.6
47°	119.8	118.1	117.9	119.7	117.8	120.1	120.8	123.7	124.8	123.3	125.0
47.5°	117.3	115.7	115.4	117.2	115.3	117.5	118.3	121.2	122.4	120.7	122.4
48°	114.7	113.1	113.0	114.7	112.8	115.1	115.8	118.7	119.8	118.1	119.9
48.5°	112.3	110.6	110.6	112.2	110.3	112.7	113.4	116.2	117.3	115.6	117.4
49°	109.8	108.0	108.1	109.8	107.8	110.3	110.9	113.8	114.8	113.1	114.9
49.5°	107.3	105.6	105.7	107.3	105.3	107.8	108.4	111.4	112.3	110.7	112.4
50°	104.9	103.2	103.3	104.9	103.0	105.4	106.0	109.0	109.9	108.2	109.9
50.5°	102.4	100.9	100.8	102.4	100.6	102.9	103.5	106.6	107.4	105.8	107.4
51°	100.1	98.5	98.5	100.1	98.2	100.5	101.2	104.1	105.1	103.4	105.0
51.5°	97.8	96.1	96.1	97.8	95.9	98.1	98.9	101.7	102.7	101.1	102.5
52°	95.4	93.8	93.8	95.5	93.6	95.8	96.5	99.4	100.4	98.7	100.3
52.5°	93.2	91.6	91.6	93.1	91.3	93.4	94.2	97.1	98.0	96.4	98.0
53°	90.9	89.3	89.3	90.9	88.9	91.1	91.9	94.8	95.7	94.1	95.7
53.5°	88.7	87.1	87.1	88.6	86.7	88.9	89.6	92.5	93.4	91.9	93.4
54°	86.4	84.9	85.0	86.4	84.5	86.7	87.4	90.3	91.2	89.7	91.1
54.5°	84.3	82.7	82.8	84.2	82.4	84.5	85.2	88.0	88.9	87.5	88.9
55°	82.2	80.6	80.6	82.0	80.1	82.3	83.0	85.8	86.7	85.3	86.7
55.5°	80.1	78.5	78.6	79.9	78.0	80.1	80.8	83.6	84.5	83.2	84.6
56°	78.1	76.5	76.5	77.7	75.9	78.0	78.7	81.5	82.4	81.0	82.4
56.5°	76.1	74.4	74.4	75.7	73.9	75.9	76.6	79.3	80.2	78.9	80.3
57°	74.0	72.4	72.4	73.7	71.8	73.8	74.5	77.3	78.2	76.8	78.2
57.5°	72.1	70.5	70.4	71.6	69.8	71.8	72.5	75.2	76.1	74.8	76.1
58°	70.1	68.5	68.5	69.6	67.8	69.7	70.4	73.2	74.1	72.6	74.0
58.5°	68.2	66.6	66.6	67.7	65.8	67.7	68.4	71.2	72.1	70.5	72.0
59°	66.4	64.8	64.7	65.7	63.9	65.7	66.5	69.2	70.1	68.5	69.9
59.5°	64.6	62.9	62.8	63.8	62.0	63.8	64.6	67.2	68.2	66.5	67.9
60°	62.7	61.1	60.9	61.9	60.1	61.9	62.6	65.3	66.2	64.5	65.9
60.5°	60.9	59.3	59.1	60.1	58.3	60.0	60.6	63.4	64.3	62.5	63.9
61°	59.2	57.5	57.3	58.2	56.4	58.2	58.8	61.5	62.3	60.5	62.0
61.5°	57.4	55.9	55.5	56.4	54.7	56.3	57.0	59.7	60.4	58.5	60.0
62°	55.8	54.3	53.8	54.7	53.1	54.5	55.3	57.8	58.5	56.7	58.1
62.5°	54.1	52.7	52.1	52.9	51.4	52.7	53.6	56.0	56.6	55.0	56.2
63°	52.5	51.1	50.4	51.2	49.7	51.0	51.9	54.2	54.8	53.2	54.5
63.5°	50.8	49.5	48.7	49.5	48.1	49.2	50.2	52.5	53.1	51.5	52.6
64°	49.3	47.9	47.1	47.8	46.4	47.5	48.5	50.8	51.4	49.7	50.8
64.5°	47.7	46.3	45.5	46.1	44.8	45.9	46.9	49.1	49.7	48.0	49.0
65°	46.1	44.7	43.9	44.5	43.2	44.2	45.2	47.4	47.9	46.3	47.3
65.5°	44.6	43.2	42.3	42.9	41.5	42.6	43.6	45.7	46.1	44.5	45.6
66°	43.1	41.7	40.8	41.3	40.0	41.0	42.0	44.1	44.4	42.9	44.0





TEST NUMBER: P710063

CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
67.5°	38.7	37.4	36.4	36.8	35.4	36.3	37.3	39.2	39.4	38.1	39.2
68°	37.2	36.0	34.7	35.4	34.0	34.9	35.8	37.6	37.8	36.5	37.6
68.5°	35.8	34.6	33.5	33.9	32.6	33.4	34.3	36.0	36.2	34.9	36.1
69°	34.4	33.3	32.2	32.5	31.2	31.9	32.9	34.5	34.7	33.5	34.6
69.5°	33.0	31.9	30.8	31.1	29.8	30.6	31.5	33.0	33.2	32.0	33.1
70°	31.7	30.6	29.5	29.8	28.5	29.2	30.1	31.5	31.7	30.6	31.7
70.5°	30.4	29.3	28.3	28.4	27.2	27.9	28.5	30.1	30.3	29.2	30.4
71°	29.1	28.1	27.0	27.2	25.9	26.5	26.9	28.6	28.9	27.9	29.0
71.5°	27.8	26.8	25.8	25.9	24.7	25.3	25.4	27.2	27.5	26.6	27.7
72°	26.5	25.6	24.6	24.7	23.4	24.0	23.9	25.8	26.1	25.3	26.4
72.5°	25.2	24.4	23.4	23.5	22.3	22.7	22.5	24.5	24.8	24.1	25.2
73°	23.9	23.3	22.2	22.3	21.2	21.5	21.1	23.3	23.6	22.9	24.0
73.5°	22.6	22.1	21.1	21.2	20.1	20.4	19.8	22.0	22.4	21.7	22.8
74°	21.4	21.0	20.0	20.1	19.0	19.2	18.5	20.7	21.2	20.6	21.7
74.5°	20.2	19.9	19.0	19.1	18.0	18.1	17.3	19.5	20.1	19.5	20.6
75°	19.0	18.8	18.0	18.1	17.0	17.0	16.2	18.3	19.0	18.5	19.5
75.5°	18.0	17.8	17.0	17.1	16.1	16.0	15.1	17.1	17.9	17.5	18.5
76°	16.9	16.8	16.1	16.2	15.2	15.0	14.1	15.9	16.9	16.6	17.6
76.5°	15.9	15.9	15.1	15.4	14.3	14.1	13.2	14.9	16.0	15.7	16.6
77°	14.9	15.0	14.2	14.5	13.5	13.2	12.4	13.9	15.1	14.8	15.7
77.5°	13.9	14.1	13.3	13.6	12.7	12.3	11.6	12.9	14.2	14.0	14.9
78°	13.0	13.2	12.5	12.9	12.0	11.5	10.9	12.1	13.4	13.2	14.1
78.5°	12.2	12.3	11.8	12.1	11.3	10.8	10.3	11.3	12.6	12.4	13.3
79°	11.4	11.5	11.1	11.4	10.7	10.1	9.7	10.5	11.8	11.7	12.5
79.5°	10.7	10.7	10.4	10.8	10.1	9.4	9.0	9.9	11.1	11.1	11.8
80°	10.0	10.0	9.9	10.2	9.6	8.8	8.3	9.2	10.5	10.4	11.1
80.5°	9.4	9.3	9.3	9.7	9.1	8.3	7.6	8.5	9.9	9.8	10.5
81°	8.8	8.6	8.8	9.1	8.5	7.6	6.8	7.9	9.3	9.3	9.9
81.5°	8.0	8.0	8.2	8.5	7.8	6.9	6.0	7.2	8.8	8.8	9.3
82°	7.3	7.4	7.6	7.9	7.2	6.2	5.3	6.4	8.2	8.2	8.8
82.5°	6.6	6.8	7.0	7.2	6.5	5.6	4.6	5.7	7.5	7.6	8.2
83°	5.9	6.1	6.4	6.6	5.9	4.9	3.8	5.0	6.9	6.9	7.5
83.5°	5.1	5.5	5.8	5.9	5.2	4.3	3.0	4.3	6.2	6.3	6.8
84°	4.4	4.9	5.1	5.2	4.5	3.7	2.4	3.5	5.6	5.7	6.2
84.5°	3.7	4.3	4.5	4.6	3.9	3.2	1.8	2.8	4.9	5.1	5.6
85°	3.0	3.7	3.9	4.0	3.3	2.6	1.2	2.2	4.3	4.4	5.0
85.5°	2.3	3.2	3.3	3.3	2.6	2.1	1.0	1.6	3.7	3.8	4.3
86°	1.8	2.7	2.7	2.7	2.0	1.6	0.7	1.2	3.1	3.2	3.8
86.5°	1.2	2.2	2.1	2.0	1.5	1.2	0.5	0.9	2.5	2.6	3.2
87°	0.9	1.7	1.6	1.5	0.9	0.7	0.4	0.6	1.9	2.0	2.6
87.5°	0.7	1.3	1.1	0.9	0.5	0.3	0.2	0.4	1.4	1.4	2.0
88°	0.6	1.0	0.6	0.5	0.5	0.2	0.1	0.2	0.9	0.9	1.5
88.5°	0.4	0.5	0.4	0.5	0.3	0.1	0.1	0.1	0.5	0.4	1.0



TEST NUMBER: P710063  
CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-3000K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P710063  
CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
0°	268.9	268.9
0.5°	268.9	268.9
1°	268.9	268.8
1.5°	268.9	268.8
2°	268.9	268.8
2.5°	268.7	268.7
3°	268.6	268.6
3.5°	268.4	268.4
4°	268.2	268.2
4.5°	268.0	268.0
5°	267.7	267.6
5.5°	267.4	267.4
6°	267.1	267.0
6.5°	266.8	266.7
7°	266.3	266.2
7.5°	265.9	265.8
8°	265.4	265.3
8.5°	264.9	264.8
9°	264.4	264.3
9.5°	263.8	263.8
10°	263.2	263.1
10.5°	262.5	262.4
11°	261.8	261.6
11.5°	261.1	260.9
12°	260.2	260.1
12.5°	259.5	259.3
13°	258.6	258.4
13.5°	257.7	257.6
14°	256.7	256.7
14.5°	255.9	255.8
15°	254.9	254.8
15.5°	253.9	253.8
16°	252.8	252.8
16.5°	251.8	251.7
17°	250.6	250.5
17.5°	249.5	249.5
18°	248.2	248.3
18.5°	247.1	247.1
19°	245.9	245.8
19.5°	244.6	244.5
20°	243.2	243.1
20.5°	242.0	241.8
21°	240.5	240.4



TEST NUMBER: P710063

CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
22.5°	236.1	235.8
23°	234.5	234.3
23.5°	232.9	232.7
24°	231.2	231.0
24.5°	229.6	229.3
25°	227.8	227.4
25.5°	226.1	225.7
26°	224.2	223.9
26.5°	222.5	222.0
27°	220.6	220.1
27.5°	218.6	218.1
28°	216.7	216.2
28.5°	214.7	214.1
29°	212.6	212.0
29.5°	210.5	209.9
30°	208.4	207.7
30.5°	206.3	205.5
31°	204.1	203.3
31.5°	201.8	201.0
32°	199.5	198.6
32.5°	197.3	196.2
33°	194.9	193.9
33.5°	192.5	191.5
34°	190.1	189.0
34.5°	187.7	186.5
35°	185.3	184.0
35.5°	182.7	181.5
36°	180.2	178.9
36.5°	177.7	176.3
37°	175.1	173.7
37.5°	172.5	171.0
38°	169.9	168.4
38.5°	167.2	165.6
39°	164.6	163.0
39.5°	161.9	160.3
40°	159.2	157.5
40.5°	156.6	154.8
41°	153.9	152.0
41.5°	151.2	149.3
42°	148.5	146.5
42.5°	145.8	143.8
43°	143.0	141.0
43.5°	140.3	138.4



TEST NUMBER: P710063

CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
45°	132.3	130.3
45.5°	129.6	127.6
46°	127.0	125.0
46.5°	124.4	122.4
47°	121.8	119.8
47.5°	119.2	117.3
48°	116.6	114.7
48.5°	114.1	112.3
49°	111.5	109.8
49.5°	109.0	107.3
50°	106.6	104.9
50.5°	104.2	102.4
51°	101.7	100.1
51.5°	99.3	97.8
52°	97.1	95.4
52.5°	94.7	93.2
53°	92.4	90.9
53.5°	90.2	88.7
54°	88.1	86.4
54.5°	85.8	84.3
55°	83.6	82.2
55.5°	81.5	80.1
56°	79.4	78.1
56.5°	77.4	76.1
57°	75.3	74.0
57.5°	73.3	72.1
58°	71.3	70.1
58.5°	69.4	68.2
59°	67.4	66.4
59.5°	65.6	64.6
60°	63.8	62.7
60.5°	62.0	60.9
61°	60.1	59.2
61.5°	58.4	57.4
62°	56.7	55.8
62.5°	55.0	54.1
63°	53.4	52.5
63.5°	51.8	50.8
64°	50.1	49.3
64.5°	48.5	47.7
65°	46.8	46.1
65.5°	45.2	44.6
66°	43.6	43.1



TEST NUMBER: P710063

CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
67.5°	39.0	38.7
68°	37.4	37.2
68.5°	36.0	35.8
69°	34.6	34.4
69.5°	33.1	33.0
70°	31.8	31.7
70.5°	30.4	30.4
71°	29.1	29.1
71.5°	27.8	27.8
72°	26.5	26.5
72.5°	25.3	25.2
73°	24.1	23.9
73.5°	23.0	22.6
74°	21.9	21.4
74.5°	20.7	20.2
75°	19.6	19.0
75.5°	18.5	18.0
76°	17.5	16.9
76.5°	16.4	15.9
77°	15.4	14.9
77.5°	14.5	13.9
78°	13.6	13.0
78.5°	12.8	12.2
79°	11.9	11.4
79.5°	11.2	10.7
80°	10.5	10.0
80.5°	9.8	9.4
81°	9.1	8.8
81.5°	8.5	8.0
82°	7.8	7.3
82.5°	7.2	6.6
83°	6.4	5.9
83.5°	5.7	5.1
84°	5.0	4.4
84.5°	4.3	3.7
85°	3.6	3.0
85.5°	3.0	2.3
86°	2.4	1.8
86.5°	1.8	1.2
87°	1.3	0.9
87.5°	1.0	0.7
88°	0.7	0.6
88.5°	0.5	0.4



TEST NUMBER: P710063  
CATALOG NUMBER: RA4LS9FSD2W1EWH-600lm-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
90°	0.1	0.1



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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  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





21.5°	238.8	236.9	235.3	236.0	234.4	235.1	235.3	236.8	237.8	237.4	239.3
22°	237.3	235.4	233.7	234.5	232.8	233.5	233.8	235.4	236.3	235.9	238.0



44°	135.7	133.9	133.3	135.2	133.3	135.5	136.2	139.1	140.3	138.7	140.7
44.5°	132.9	131.2	130.7	132.6	130.7	132.9	133.6	136.5	137.7	136.2	138.0



66.5°	41.6	40.3	39.3	39.8	38.4	39.4	40.4	42.4	42.8	41.3	42.4
67°	40.1	38.8	37.8	38.3	36.9	37.9	38.9	40.8	41.1	39.6	40.7



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





21.5°	239.1	238.8
22°	237.6	237.3



44°	137.7	135.7
44.5°	135.0	132.9



66.5°	42.0	41.6
67°	40.5	40.1



89°	0.3	0.3
89.5°	0.2	0.1

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

Scaled Data Report



(END OF REPORT)