

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: P710086

Luminaire Tested: RA56LS9FSD2W1EWH-600lm-5000K

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P710086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2304449B001)
Test Lab: EVERFINE
Issue Date: 10/6/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: RA56LS9FSD2W1EWH-600lm-5000K
Description: 5/6IN RETROFIT SELECTABLE LUMENS
Light Source: SELECTABLE LUMEN/CCT LEDs 90CRI / 5000K CCT
Ballast/Driver: -

Summary

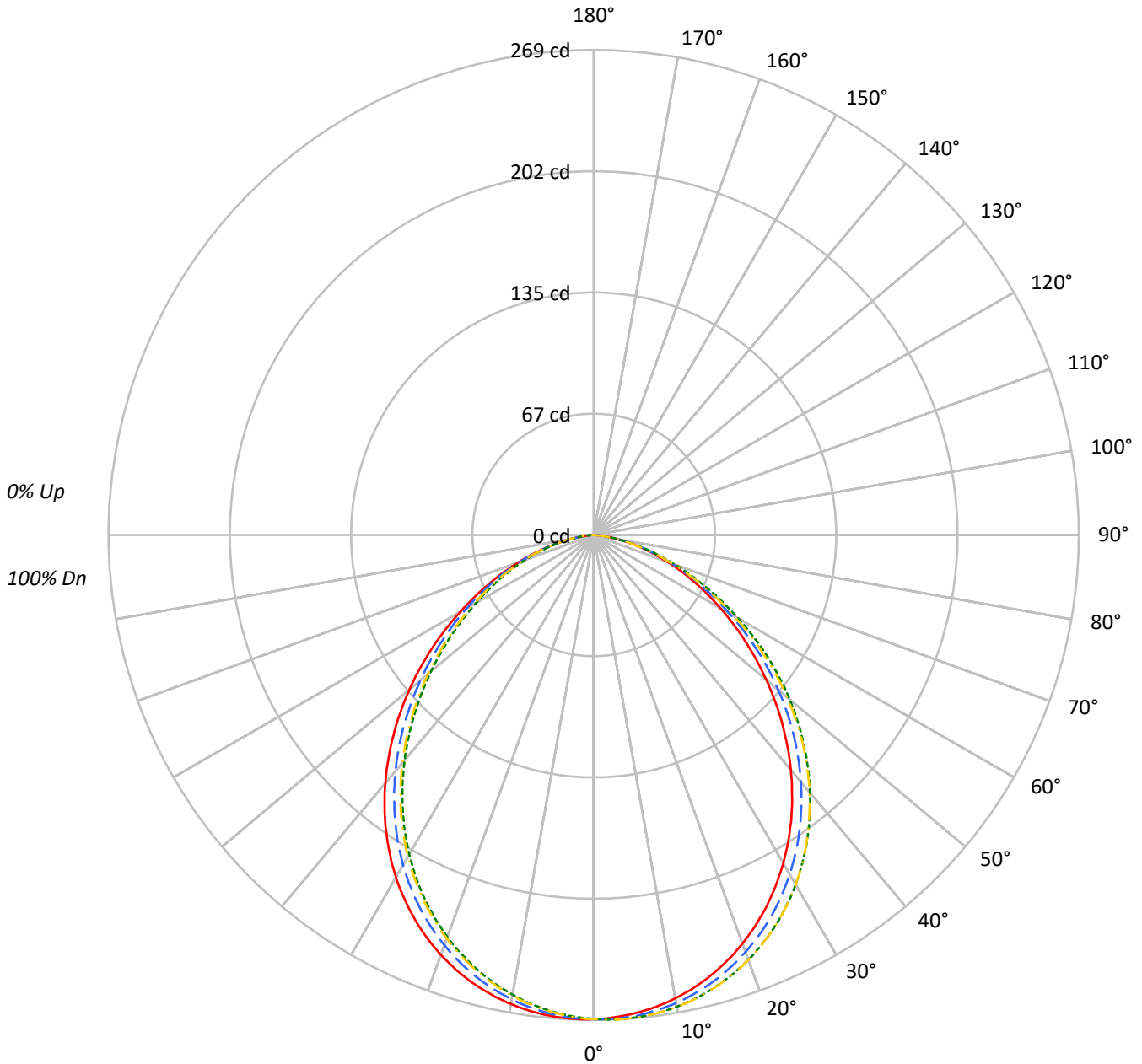
Lumens per Lamp: 930.22 (1 lamp)
Luminaire Lumens: 635.0 lumens
Efficiency: 68.3%
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.28
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 5.7
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	81	81	81	81	79	79	79	79	76	76	76	73	73	73	70	70	70	70	70	70	68					
1	75	72	69	67	73	71	68	66	68	66	64	65	63	62	63	61	60	63	61	60	59					
2	69	64	59	56	67	62	58	55	60	57	54	58	55	53	56	53	51	56	53	51	50					
3	63	56	51	47	61	55	50	47	53	49	46	51	48	45	50	47	44	50	47	44	43					
4	58	50	45	40	56	49	44	40	48	43	40	46	42	39	45	41	38	45	41	38	37					
5	54	45	39	35	52	44	39	35	43	38	35	42	37	34	40	37	34	40	37	34	32					
6	50	41	35	31	48	40	35	31	39	34	30	38	34	30	37	33	30	37	33	30	29					
7	46	37	31	27	45	37	31	27	36	31	27	35	30	27	34	30	27	34	30	27	25					
8	43	34	28	25	42	34	28	25	33	28	24	32	27	24	31	27	24	31	27	24	23					
9	40	31	26	22	39	31	26	22	30	25	22	29	25	22	29	25	22	29	25	22	21					
10	38	29	24	20	37	29	24	20	28	23	20	27	23	20	27	23	20	27	23	20	19					

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14725	14725	14725	14725
5°	14654	14786	14742	14599
10°	14529	14790	14707	14417
15°	14336	14739	14614	14166
20°	14071	14625	14456	13844
25°	13737	14438	14215	13440
30°	13312	14173	13876	12945
35°	12789	13813	13425	12361
40°	12173	13361	12860	11672
45°	11459	12784	12172	10885
50°	10652	12093	11368	10038
55°	9797	11230	10446	9137
60°	8903	10153	9385	8234
65°	7952	8963	8250	7368
70°	6956	7678	7085	6443
75°	5761	6185	5698	5359
80°	4262	4293	3946	3883
85°	2327	2264	1761	2327

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 120°

Vertical Angle: 45°

Luminance: 12792 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	25.4	4.0	2.7
10°-20°	71.8	11.3	7.7
20°-30°	106.2	16.7	11.4
30°-40°	122.3	19.3	13.1
40°-50°	117.7	18.5	12.7
50°-60°	95.0	15.0	10.2
60°-70°	62.4	9.8	6.7
70°-80°	29.2	4.6	3.1
80°-90°	5.0	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°	203.4	32.0	21.9
0°-40°	325.7	51.3	35.0
0°-60°	538.5	84.8	57.9
0°-90°	635.0	100.0	68.3
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°	635.0	100.0	68.3

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	269	269	269	269	269	
5°	266	269	268	265	266	25
15°	253	260	258	250	253	71
25°	227	239	235	222	227	104
35°	191	206	201	185	191	119
45°	148	165	157	140	148	114
55°	102	118	109	96	102	92
65°	61	69	64	57	61	61
75°	27	29	27	25	27	29
85°	4	4	3	4	4	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	268.6	268.6	268.6	268.6	268.6	268.6	268.6	268.6	268.6	268.6	268.6
0.5°	268.5	268.7	268.9	268.6	268.9	268.8	268.7	268.6	268.7	268.3	268.6
1°	268.4	268.6	268.9	268.8	269.0	269.0	268.8	268.6	268.5	268.1	268.4
1.5°	268.3	268.5	269.0	268.9	269.1	269.0	268.7	268.5	268.4	267.9	268.1
2°	268.1	268.5	269.0	269.0	269.2	269.0	268.7	268.5	268.2	267.6	267.9
2.5°	267.8	268.3	268.9	269.0	269.2	269.0	268.7	268.3	268.0	267.3	267.6
3°	267.6	268.2	268.9	269.0	269.3	269.1	268.6	268.1	267.7	267.0	267.2
3.5°	267.2	267.9	268.8	269.0	269.2	269.0	268.5	267.9	267.4	266.6	266.9
4°	267.0	267.7	268.6	268.9	269.1	268.9	268.3	267.7	267.0	266.2	266.5
4.5°	266.7	267.5	268.5	268.8	269.1	268.8	268.1	267.4	266.7	265.8	266.0
5°	266.3	267.2	268.2	268.7	268.9	268.6	267.9	267.1	266.3	265.3	265.6
5.5°	265.9	266.8	268.1	268.5	268.8	268.5	267.7	266.8	266.0	264.8	265.1
6°	265.4	266.5	267.7	268.4	268.6	268.3	267.4	266.5	265.4	264.3	264.6
6.5°	265.0	266.1	267.5	268.1	268.3	268.0	267.1	266.1	265.0	263.7	264.1
7°	264.5	265.7	267.1	267.8	268.1	267.8	266.8	265.7	264.5	263.1	263.5
7.5°	264.0	265.2	266.8	267.6	267.8	267.5	266.4	265.2	263.9	262.5	262.9
8°	263.5	264.8	266.4	267.2	267.5	267.1	266.1	264.7	263.3	261.9	262.2
8.5°	262.9	264.3	266.0	266.9	267.2	266.8	265.6	264.2	262.7	261.2	261.6
9°	262.3	263.8	265.5	266.5	266.8	266.4	265.2	263.7	262.1	260.5	260.9
9.5°	261.7	263.2	265.1	266.1	266.5	266.0	264.7	263.2	261.4	259.7	260.2
10°	261.0	262.6	264.6	265.7	266.0	265.5	264.2	262.5	260.7	259.0	259.4
10.5°	260.3	262.0	264.1	265.3	265.6	265.1	263.8	261.9	259.9	258.1	258.6
11°	259.6	261.3	263.5	264.7	265.1	264.6	263.1	261.3	259.1	257.3	257.8
11.5°	258.8	260.6	262.9	264.2	264.6	264.1	262.6	260.5	258.4	256.5	257.0
12°	258.1	259.9	262.3	263.7	264.0	263.5	262.0	259.8	257.5	255.6	256.1
12.5°	257.2	259.1	261.7	263.1	263.4	263.0	261.3	259.0	256.7	254.6	255.2
13°	256.3	258.4	260.9	262.5	262.8	262.3	260.6	258.3	255.8	253.7	254.2
13.5°	255.4	257.5	260.2	261.8	262.2	261.7	259.9	257.5	254.9	252.7	253.2
14°	254.5	256.7	259.5	261.2	261.5	261.0	259.1	256.6	253.9	251.7	252.2
14.5°	253.6	255.8	258.7	260.5	260.8	260.3	258.4	255.8	253.0	250.6	251.2
15°	252.6	254.9	257.9	259.7	260.1	259.6	257.5	254.9	251.9	249.6	250.1
15.5°	251.6	254.0	257.0	259.0	259.4	258.8	256.7	253.9	250.9	248.5	249.0
16°	250.6	253.0	256.2	258.2	258.6	258.0	255.8	253.0	249.8	247.3	247.9
16.5°	249.4	252.0	255.3	257.3	257.8	257.2	254.9	251.9	248.7	246.2	246.8
17°	248.4	251.0	254.3	256.5	256.9	256.3	254.0	250.9	247.6	245.0	245.6
17.5°	247.2	249.9	253.4	255.6	256.0	255.5	253.1	249.9	246.4	243.7	244.4
18°	246.1	248.9	252.4	254.7	255.2	254.5	252.0	248.8	245.2	242.6	243.1
18.5°	244.9	247.8	251.4	253.8	254.2	253.7	251.0	247.7	244.0	241.3	241.9
19°	243.7	246.6	250.3	252.8	253.2	252.6	250.0	246.5	242.8	240.0	240.6
19.5°	242.4	245.4	249.2	251.8	252.2	251.6	248.9	245.3	241.5	238.6	239.2
20°	241.2	244.3	248.1	250.7	251.2	250.5	247.8	244.2	240.2	237.3	237.8
20.5°	239.9	243.0	247.0	249.7	250.1	249.5	246.6	242.9	238.9	235.8	236.5
21°	238.6	241.7	245.8	248.6	249.0	248.4	245.4	241.7	237.5	234.4	235.1



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
22.5°	234.4	237.9	242.2	245.2	245.5	245.0	241.7	237.6	233.2	230.0	230.7
23°	233.1	236.5	240.9	243.9	244.3	243.7	240.5	236.3	231.8	228.5	229.2
23.5°	231.5	235.0	239.6	242.7	243.1	242.4	239.2	234.8	230.3	226.9	227.7
24°	230.1	233.6	238.3	241.4	241.9	241.1	237.7	233.5	228.8	225.4	226.1
24.5°	228.6	232.3	236.9	240.1	240.5	239.9	236.4	232.0	227.2	223.8	224.6
25°	227.1	230.8	235.5	238.7	239.2	238.5	235.0	230.6	225.7	222.2	222.9
25.5°	225.4	229.3	234.1	237.5	237.9	237.2	233.5	229.0	224.1	220.5	221.3
26°	223.8	227.7	232.6	236.0	236.5	235.7	232.1	227.5	222.4	218.9	219.7
26.5°	222.2	226.2	231.2	234.6	235.1	234.4	230.5	225.9	220.8	217.1	218.0
27°	220.6	224.7	229.7	233.1	233.6	232.8	229.0	224.3	219.1	215.4	216.2
27.5°	218.9	223.0	228.2	231.7	232.2	231.4	227.4	222.6	217.4	213.6	214.5
28°	217.2	221.4	226.6	230.2	230.7	229.8	225.9	221.0	215.7	211.9	212.7
28.5°	215.5	219.8	225.0	228.7	229.2	228.3	224.3	219.4	213.9	210.0	210.9
29°	213.8	218.1	223.4	227.1	227.7	226.7	222.7	217.7	212.1	208.2	209.1
29.5°	212.0	216.4	221.8	225.6	226.1	225.2	221.0	215.9	210.4	206.4	207.3
30°	210.3	214.6	220.1	223.9	224.5	223.5	219.2	214.2	208.5	204.5	205.4
30.5°	208.4	212.9	218.5	222.3	222.7	221.8	217.5	212.3	206.7	202.6	203.6
31°	206.6	211.1	216.7	220.6	221.1	220.1	215.7	210.5	204.8	200.7	201.7
31.5°	204.7	209.4	215.0	219.0	219.5	218.5	214.0	208.7	202.9	198.8	199.8
32°	202.9	207.5	213.2	217.2	217.8	216.7	212.1	206.8	201.0	196.8	197.8
32.5°	200.9	205.7	211.5	215.5	215.9	214.9	210.2	205.0	199.0	194.8	195.9
33°	199.0	203.8	209.6	213.7	214.3	213.1	208.3	203.1	197.1	192.9	193.9
33.5°	197.1	201.9	207.8	211.9	212.4	211.3	206.5	201.2	195.1	190.8	191.9
34°	195.1	200.0	205.9	210.1	210.6	209.3	204.5	199.2	193.0	188.8	189.9
34.5°	193.2	198.1	204.1	208.3	208.7	207.4	202.6	197.2	191.0	186.7	187.9
35°	191.1	196.1	202.2	206.4	207.0	205.6	200.6	195.3	189.0	184.7	185.7
35.5°	189.1	194.2	200.2	204.5	205.0	203.7	198.7	193.3	187.0	182.6	183.6
36°	187.1	192.1	198.3	202.6	203.1	201.7	196.6	191.2	184.8	180.5	181.6
36.5°	185.0	190.2	196.3	200.7	201.2	199.7	194.6	189.1	182.7	178.3	179.5
37°	182.9	188.1	194.3	198.7	199.2	197.7	192.5	187.1	180.6	176.2	177.3
37.5°	180.7	186.0	192.3	196.9	197.2	195.7	190.4	185.0	178.5	174.1	175.2
38°	178.7	183.9	190.3	194.9	195.2	193.6	188.3	182.9	176.4	171.9	173.0
38.5°	176.6	181.9	188.2	192.9	193.2	191.6	186.2	180.7	174.1	169.7	170.9
39°	174.4	179.7	186.2	190.8	191.2	189.4	184.1	178.6	172.0	167.5	168.7
39.5°	172.2	177.6	184.2	188.7	189.0	187.3	181.9	176.5	169.9	165.3	166.5
40°	170.1	175.5	182.0	186.7	187.0	185.2	179.7	174.3	167.6	163.1	164.3
40.5°	167.9	173.3	179.9	184.6	184.9	183.1	177.5	172.1	165.4	160.9	162.1
41°	165.7	171.1	177.8	182.4	182.8	180.9	175.3	169.9	163.2	158.6	159.8
41.5°	163.5	169.0	175.7	180.3	180.5	178.7	173.1	167.6	160.9	156.4	157.6
42°	161.3	166.7	173.4	178.1	178.5	176.5	170.8	165.4	158.7	154.1	155.4
42.5°	159.0	164.6	171.2	176.0	176.2	174.3	168.5	163.2	156.5	151.9	153.1
43°	156.8	162.3	169.0	173.8	174.1	172.0	166.2	161.0	154.2	149.7	150.9
43.5°	154.5	160.1	166.9	171.7	171.8	169.8	164.0	158.7	151.9	147.3	148.7



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	147.8	153.4	160.1	164.9	165.0	162.9	157.0	151.9	145.0	140.4	141.8
45.5°	145.5	151.1	157.8	162.7	162.7	160.6	154.7	149.5	142.8	138.1	139.5
46°	143.2	148.8	155.6	160.4	160.3	158.2	152.4	147.2	140.5	135.9	137.2
46.5°	141.0	146.5	153.4	158.1	157.9	155.9	150.0	144.9	138.1	133.6	135.0
47°	138.6	144.2	151.0	155.9	155.6	153.6	147.6	142.7	135.8	131.3	132.8
47.5°	136.4	141.9	148.6	153.6	153.1	151.3	145.3	140.4	133.6	129.1	130.5
48°	134.0	139.6	146.3	151.2	150.8	148.8	142.9	138.0	131.3	126.8	128.2
48.5°	131.8	137.3	144.0	148.9	148.3	146.5	140.5	135.7	128.9	124.5	126.0
49°	129.5	135.0	141.6	146.6	145.8	144.0	138.1	133.4	126.6	122.1	123.8
49.5°	127.2	132.6	139.2	144.2	143.3	141.6	135.7	131.1	124.3	119.9	121.5
50°	124.9	130.4	136.8	141.8	140.8	139.2	133.3	128.8	122.1	117.7	119.2
50.5°	122.6	128.1	134.5	139.6	138.3	136.7	131.0	126.5	119.8	115.4	117.0
51°	120.3	125.7	132.0	137.2	135.8	134.1	128.6	124.2	117.5	113.2	114.7
51.5°	118.1	123.4	129.6	134.7	133.4	131.7	126.2	121.9	115.2	110.9	112.5
52°	115.8	121.1	127.2	132.3	130.9	129.1	123.8	119.6	113.0	108.8	110.2
52.5°	113.7	118.8	124.8	129.8	128.2	126.7	121.4	117.3	110.8	106.5	108.0
53°	111.5	116.5	122.4	127.4	125.6	124.2	118.9	115.0	108.5	104.3	105.9
53.5°	109.2	114.2	120.0	124.9	123.1	121.7	116.5	112.7	106.2	102.1	103.7
54°	106.9	111.9	117.6	122.4	120.6	119.2	114.1	110.5	104.0	99.9	101.5
54.5°	104.7	109.5	115.1	119.9	118.0	116.6	111.7	108.2	101.8	97.8	99.3
55°	102.5	107.2	112.7	117.5	115.4	114.1	109.3	105.9	99.6	95.6	97.1
55.5°	100.3	105.0	110.3	115.0	112.8	111.5	106.9	103.6	97.4	93.5	95.0
56°	98.1	102.7	107.9	112.5	110.2	109.1	104.5	101.4	95.3	91.3	92.9
56.5°	95.9	100.4	105.4	110.0	107.7	106.6	102.1	99.2	93.1	89.2	90.7
57°	93.7	98.2	103.0	107.5	105.1	104.1	99.7	96.9	91.0	87.2	88.7
57.5°	91.6	95.9	100.6	105.0	102.6	101.6	97.3	94.7	88.9	85.1	86.6
58°	89.5	93.7	98.2	102.5	100.2	99.1	94.9	92.5	86.8	83.0	84.5
58.5°	87.4	91.4	95.8	100.0	97.7	96.6	92.5	90.3	84.7	81.0	82.4
59°	85.3	89.2	93.4	97.5	95.2	94.2	90.2	88.1	82.7	79.0	80.4
59.5°	83.2	87.0	91.1	95.0	92.7	91.8	87.8	85.9	80.7	77.0	78.4
60°	81.2	84.8	88.7	92.6	90.3	89.4	85.6	83.7	78.6	75.1	76.4
60.5°	79.1	82.6	86.4	90.1	87.7	86.9	83.3	81.5	76.6	73.1	74.4
61°	77.0	80.4	84.1	87.7	85.4	84.6	81.0	79.4	74.6	71.2	72.5
61.5°	75.0	78.3	81.8	85.3	82.9	82.2	78.8	77.3	72.7	69.2	70.5
62°	73.0	76.2	79.5	82.9	80.5	79.9	76.5	75.2	70.7	67.3	68.6
62.5°	71.0	74.1	77.3	80.6	78.2	77.6	74.3	73.1	68.8	65.5	66.8
63°	69.1	72.0	75.1	78.2	75.9	75.3	72.1	71.0	66.9	63.7	64.9
63.5°	67.1	69.9	72.9	76.0	73.6	73.0	70.0	69.0	65.0	62.0	63.1
64°	65.2	67.8	70.7	73.6	71.3	70.8	67.8	66.9	63.2	60.3	61.3
64.5°	63.3	65.8	68.5	71.4	69.1	68.5	65.7	64.9	61.5	58.6	59.4
65°	61.3	63.8	66.4	69.1	66.9	66.3	63.6	62.9	59.7	56.8	57.7
65.5°	59.5	61.9	64.3	66.9	64.6	64.2	61.7	60.9	58.0	55.1	55.9
66°	57.6	60.1	62.2	64.7	62.6	62.0	59.7	59.0	56.2	53.4	54.2



TEST NUMBER: P710086

CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
67.5°	52.2	54.4	56.1	58.2	56.5	55.7	53.8	53.1	50.9	48.3	49.1
68°	50.4	52.5	54.1	56.1	54.4	53.7	51.9	51.3	49.2	46.6	47.4
68.5°	48.6	50.6	52.1	54.0	52.4	51.6	49.9	49.3	47.4	45.0	45.8
69°	46.8	48.7	50.2	52.0	50.4	49.7	48.0	47.5	45.7	43.4	44.2
69.5°	45.1	46.9	48.3	49.9	48.4	47.7	46.1	45.7	44.0	41.8	42.6
70°	43.4	45.1	46.4	47.9	46.4	45.8	44.2	43.8	42.4	40.2	41.0
70.5°	41.7	43.3	44.4	45.9	44.4	43.9	42.4	42.0	40.7	38.7	39.4
71°	40.0	41.5	42.6	43.9	42.5	41.9	40.6	40.2	39.0	37.1	37.9
71.5°	38.3	39.7	40.8	42.1	40.6	40.1	38.8	38.5	37.4	35.6	36.4
72°	36.7	38.0	39.0	40.1	38.7	38.3	37.0	36.7	35.8	34.1	34.9
72.5°	35.1	36.3	37.2	38.2	36.9	36.4	35.3	35.0	34.2	32.5	33.4
73°	33.4	34.6	35.4	36.4	35.0	34.6	33.5	33.4	32.6	31.1	32.0
73.5°	31.9	33.0	33.7	34.6	33.3	32.9	31.8	31.7	31.0	29.6	30.5
74°	30.3	31.3	32.0	32.8	31.5	31.1	30.2	30.0	29.5	28.1	29.1
74.5°	28.8	29.7	30.3	31.0	29.7	29.4	28.5	28.4	27.9	26.7	27.7
75°	27.2	28.1	28.7	29.2	28.0	27.7	26.9	26.8	26.4	25.3	26.4
75.5°	25.7	26.5	27.1	27.5	26.3	26.1	25.3	25.2	24.9	23.9	25.0
76°	24.3	25.0	25.4	25.8	24.7	24.5	23.7	23.6	23.5	22.5	23.6
76.5°	22.8	23.5	23.9	24.2	23.1	22.9	22.2	22.2	22.0	21.1	22.3
77°	21.4	22.0	22.3	22.6	21.5	21.3	20.7	20.7	20.6	19.8	21.0
77.5°	20.0	20.5	20.8	20.9	19.9	19.8	19.3	19.2	19.2	18.4	19.7
78°	18.6	19.1	19.3	19.4	18.4	18.3	17.8	17.8	17.8	17.1	18.5
78.5°	17.3	17.7	17.9	17.9	17.0	16.9	16.4	16.4	16.5	15.9	17.2
79°	16.0	16.3	16.5	16.4	15.5	15.5	15.0	15.0	15.1	14.6	16.0
79.5°	14.7	15.0	15.1	14.9	14.1	14.1	13.7	13.7	13.8	13.4	14.8
80°	13.5	13.7	13.8	13.6	12.8	12.8	12.5	12.5	12.5	12.3	13.6
80.5°	12.2	12.5	12.5	12.2	11.5	11.5	11.2	11.3	11.3	11.1	12.4
81°	11.1	11.3	11.2	11.0	10.3	10.3	10.1	10.1	10.1	10.0	11.3
81.5°	10.0	10.1	9.9	9.8	9.1	9.1	8.9	9.0	9.0	9.0	10.2
82°	9.0	9.1	8.8	8.6	8.0	8.0	7.7	8.0	8.0	8.1	9.2
82.5°	8.0	8.0	7.7	7.5	7.0	7.0	6.5	7.0	7.1	7.1	8.2
83°	7.1	7.1	6.8	6.6	6.1	6.0	5.4	6.1	6.2	6.3	7.2
83.5°	6.2	6.2	5.9	5.7	5.2	5.2	4.5	5.2	5.4	5.5	6.4
84°	5.2	5.4	5.1	4.9	4.5	4.4	3.8	4.5	4.7	4.9	5.6
84.5°	4.4	4.6	4.4	4.2	3.9	3.7	3.3	3.8	4.1	4.3	5.0
85°	3.7	3.9	3.8	3.6	3.3	3.1	2.8	3.2	3.6	3.7	4.4
85.5°	3.2	3.3	3.2	3.1	2.8	2.6	2.2	2.7	3.1	3.2	3.8
86°	2.6	2.8	2.7	2.6	2.4	2.1	1.6	2.2	2.6	2.7	3.2
86.5°	2.1	2.3	2.3	2.2	2.0	1.6	1.1	1.7	2.2	2.3	2.8
87°	1.5	1.8	1.9	1.7	1.5	1.2	0.7	1.2	1.7	1.8	2.3
87.5°	1.3	1.4	1.5	1.2	1.1	0.9	0.5	0.7	1.3	1.5	1.8
88°	1.0	1.0	1.1	0.8	0.6	0.5	0.3	0.4	1.0	1.4	1.7
88.5°	0.6	0.7	0.7	0.4	0.2	0.2	0.2	0.3	0.8	1.2	1.5



TEST NUMBER: P710086

CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2



TEST NUMBER: P710086

CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	268.6	268.6
0.5°	268.5	268.5
1°	268.3	268.4
1.5°	268.1	268.3
2°	267.9	268.1
2.5°	267.6	267.8
3°	267.2	267.6
3.5°	266.9	267.2
4°	266.5	267.0
4.5°	266.1	266.7
5°	265.7	266.3
5.5°	265.2	265.9
6°	264.8	265.4
6.5°	264.3	265.0
7°	263.7	264.5
7.5°	263.1	264.0
8°	262.5	263.5
8.5°	261.8	262.9
9°	261.2	262.3
9.5°	260.5	261.7
10°	259.7	261.0
10.5°	259.0	260.3
11°	258.1	259.6
11.5°	257.3	258.8
12°	256.5	258.1
12.5°	255.5	257.2
13°	254.6	256.3
13.5°	253.7	255.4
14°	252.7	254.5
14.5°	251.7	253.6
15°	250.6	252.6
15.5°	249.5	251.6
16°	248.5	250.6
16.5°	247.3	249.4
17°	246.1	248.4
17.5°	244.9	247.2
18°	243.7	246.1
18.5°	242.5	244.9
19°	241.2	243.7
19.5°	239.9	242.4
20°	238.6	241.2
20.5°	237.3	239.9
21°	235.9	238.6



TEST NUMBER: P710086

CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
22.5°	231.5	234.4
23°	230.1	233.1
23.5°	228.5	231.5
24°	227.0	230.1
24.5°	225.4	228.6
25°	223.8	227.1
25.5°	222.2	225.4
26°	220.6	223.8
26.5°	218.9	222.2
27°	217.3	220.6
27.5°	215.5	218.9
28°	213.7	217.2
28.5°	211.9	215.5
29°	210.2	213.8
29.5°	208.3	212.0
30°	206.6	210.3
30.5°	204.6	208.4
31°	202.8	206.6
31.5°	200.9	204.7
32°	199.0	202.9
32.5°	197.0	200.9
33°	195.1	199.0
33.5°	193.0	197.1
34°	191.1	195.1
34.5°	189.0	193.2
35°	187.0	191.1
35.5°	184.9	189.1
36°	182.8	187.1
36.5°	180.8	185.0
37°	178.7	182.9
37.5°	176.6	180.7
38°	174.4	178.7
38.5°	172.2	176.6
39°	170.1	174.4
39.5°	167.8	172.2
40°	165.7	170.1
40.5°	163.4	167.9
41°	161.3	165.7
41.5°	159.0	163.5
42°	156.8	161.3
42.5°	154.5	159.0
43°	152.3	156.8
43.5°	150.0	154.5



TEST NUMBER: P710086

CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	143.3	147.8
45.5°	140.9	145.5
46°	138.7	143.2
46.5°	136.4	141.0
47°	134.2	138.6
47.5°	131.9	136.4
48°	129.5	134.0
48.5°	127.3	131.8
49°	125.0	129.5
49.5°	122.7	127.2
50°	120.5	124.9
50.5°	118.2	122.6
51°	115.9	120.3
51.5°	113.6	118.1
52°	111.4	115.8
52.5°	109.2	113.7
53°	106.9	111.5
53.5°	104.8	109.2
54°	102.6	106.9
54.5°	100.3	104.7
55°	98.2	102.5
55.5°	96.0	100.3
56°	93.8	98.1
56.5°	91.7	95.9
57°	89.6	93.7
57.5°	87.5	91.6
58°	85.4	89.5
58.5°	83.3	87.4
59°	81.3	85.3
59.5°	79.2	83.2
60°	77.2	81.2
60.5°	75.2	79.1
61°	73.3	77.0
61.5°	71.3	75.0
62°	69.4	73.0
62.5°	67.5	71.0
63°	65.6	69.1
63.5°	63.8	67.1
64°	62.1	65.2
64.5°	60.4	63.3
65°	58.7	61.3
65.5°	56.9	59.5
66°	55.2	57.6



TEST NUMBER: P710086

CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
67.5°	50.0	52.2
68°	48.3	50.4
68.5°	46.6	48.6
69°	45.0	46.8
69.5°	43.3	45.1
70°	41.7	43.4
70.5°	40.1	41.7
71°	38.5	40.0
71.5°	36.9	38.3
72°	35.4	36.7
72.5°	33.8	35.1
73°	32.3	33.4
73.5°	30.8	31.9
74°	29.3	30.3
74.5°	27.9	28.8
75°	26.4	27.2
75.5°	25.0	25.7
76°	23.6	24.3
76.5°	22.2	22.8
77°	20.8	21.4
77.5°	19.5	20.0
78°	18.1	18.6
78.5°	16.9	17.3
79°	15.6	16.0
79.5°	14.4	14.7
80°	13.1	13.5
80.5°	12.0	12.2
81°	10.9	11.1
81.5°	9.8	10.0
82°	8.8	9.0
82.5°	7.9	8.0
83°	6.9	7.1
83.5°	6.1	6.2
84°	5.4	5.2
84.5°	4.7	4.4
85°	4.1	3.7
85.5°	3.5	3.2
86°	2.9	2.6
86.5°	2.4	2.1
87°	2.0	1.5
87.5°	1.4	1.3
88°	1.0	1.0
88.5°	0.9	0.6



TEST NUMBER: P710086
CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	0.2	0.2

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

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°	237.2	240.5	244.6	247.4	247.8	247.2	244.2	240.3	236.1	233.0	233.7
22°	235.8	239.2	243.4	246.3	246.7	246.1	243.0	239.0	234.7	231.6	232.1



44°	152.3	157.9	164.6	169.4	169.6	167.5	161.7	156.4	149.7	145.1	146.4
44.5°	150.0	155.6	162.4	167.2	167.3	165.2	159.4	154.2	147.4	142.8	144.1



66.5°	55.8	58.2	60.2	62.5	60.6	59.9	57.8	57.0	54.4	51.7	52.5
67°	54.0	56.3	58.1	60.3	58.5	57.8	55.8	55.1	52.7	50.0	50.7



89°	0.4	0.5	0.4	0.2	0.1	0.1	0.1	0.2	0.5	0.8	1.1
89.5°	0.3	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.6

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

Scaled Data Report





21.5°	234.5	237.2
22°	233.0	235.8

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

Scaled Data Report



44°	147.8	152.3
44.5°	145.5	150.0



66.5°	53.5	55.8
67°	51.7	54.0



89°	0.7	0.4
89.5°	0.5	0.3

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

Scaled Data Report



(END OF REPORT)