

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: P710085

Luminaire Tested: RA56LS9FSD2W1EWH-600lm-4000K

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P710085
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-4000K
Description: 5/6IN RETROFIT SELECTABLE LUMENS
Light Source: SELECTABLE LUMEN/CCT LEDs 90CRI / 4000K CCT
Ballast/Driver: -

Summary

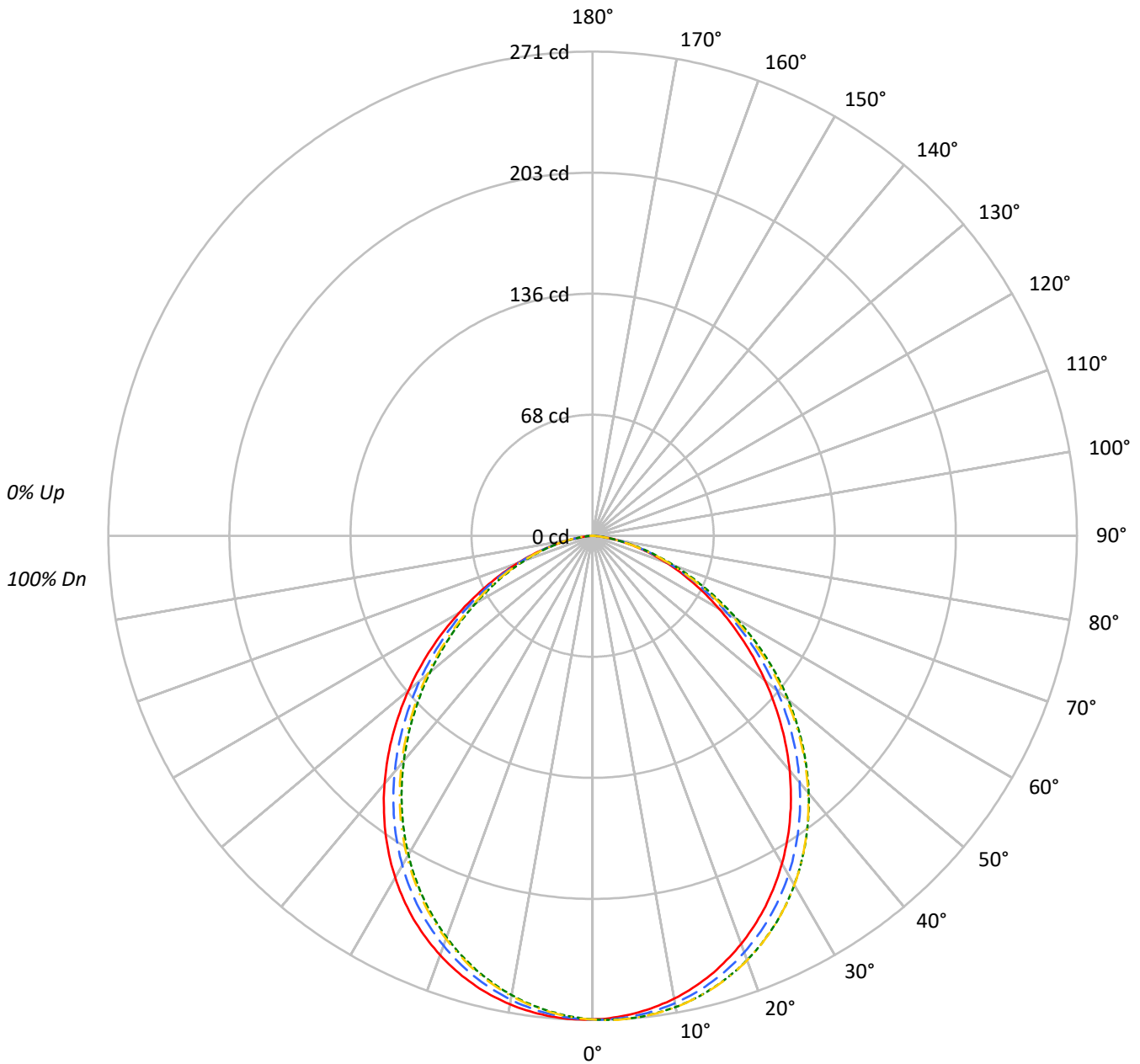
Lumens per Lamp: 930.22 (1 lamp)
Luminaire Lumens: 640.0 lumens
Efficiency: 68.8%
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.28
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 5.8
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					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	70	70	70	69	
1	76	73	70	68	74	71	69	67	68	66	64	66	64	62	63	62	61	61	61	61	59	
2	69	64	60	56	68	63	59	55	60	57	54	58	55	53	56	54	52	52	52	52	50	
3	64	57	52	47	62	56	51	47	54	50	46	52	48	45	50	47	45	45	45	45	43	
4	58	51	45	41	57	50	44	40	48	43	40	47	43	39	45	42	39	39	39	39	37	
5	54	46	40	35	53	45	39	35	43	39	35	42	38	34	41	37	34	34	34	34	33	
6	50	41	35	31	49	41	35	31	39	34	31	38	34	30	37	33	30	30	30	30	29	
7	46	38	32	28	45	37	31	28	36	31	27	35	31	27	34	30	27	27	27	27	26	
8	43	34	29	25	42	34	28	25	33	28	25	32	28	24	31	27	24	24	24	24	23	
9	41	32	26	22	40	31	26	22	30	26	22	30	25	22	29	25	22	22	22	22	21	
10	38	29	24	20	37	29	24	20	28	24	20	28	23	20	27	23	20	20	20	20	19	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14840	14840	14840	14840
5°	14770	14902	14858	14715
10°	14646	14907	14824	14529
15°	14450	14858	14728	14279
20°	14182	14736	14567	13949
25°	13846	14553	14329	13543
30°	13413	14287	13989	13046
35°	12889	13920	13532	12461
40°	12273	13461	12960	11765
45°	11552	12885	12273	10970
50°	10737	12196	11462	10115
55°	9873	11316	10523	9204
60°	8969	10229	9462	8300
65°	8016	9028	8315	7433
70°	7004	7742	7149	6491
75°	5804	6227	5740	5401
80°	4293	4325	3946	3915
85°	2327	2264	1761	2327

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 120°
 Vertical Angle: 45°
 Luminance: 12893 cd/sqm



TEST NUMBER: P710085
 CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	25.6	4.0	2.7
10°-20°	72.4	11.3	7.8
20°-30°	107.0	16.7	11.5
30°-40°	123.3	19.3	13.3
40°-50°	118.6	18.5	12.8
50°-60°	95.8	15.0	10.3
60°-70°	62.9	9.8	6.8
70°-80°	29.4	4.6	3.2
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°	205.0	32.0	22.0
0°-40°	328.3	51.3	35.3
0°-60°	542.7	84.8	58.3
0°-90°	640.0	100.0	68.8
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°	640.0	100.0	68.8

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	271	271	271	271	271	
5°	268	271	270	267	268	25
15°	255	262	260	252	255	72
25°	229	241	237	224	229	105
35°	193	208	202	186	193	120
45°	149	166	158	142	149	115
55°	103	118	110	96	103	92
65°	62	70	64	57	62	61
75°	27	29	27	26	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°	270.7	270.7	270.7	270.7	270.7	270.7	270.7	270.7	270.7	270.7	270.7
0.5°	270.6	270.8	271.0	270.8	271.0	270.9	270.8	270.8	270.8	270.5	270.7
1°	270.5	270.8	271.1	270.9	271.2	271.1	270.9	270.7	270.6	270.2	270.5
1.5°	270.4	270.6	271.1	271.0	271.2	271.1	270.8	270.6	270.5	270.0	270.3
2°	270.2	270.6	271.1	271.1	271.3	271.1	270.8	270.6	270.3	269.7	270.0
2.5°	269.9	270.4	271.1	271.1	271.4	271.2	270.8	270.4	270.1	269.4	269.7
3°	269.7	270.3	271.0	271.1	271.4	271.2	270.7	270.3	269.8	269.1	269.3
3.5°	269.3	270.0	270.9	271.1	271.3	271.1	270.6	270.0	269.5	268.7	269.0
4°	269.1	269.8	270.7	271.0	271.2	271.0	270.4	269.9	269.1	268.3	268.6
4.5°	268.8	269.6	270.6	270.9	271.2	270.9	270.2	269.5	268.8	267.8	268.1
5°	268.4	269.3	270.3	270.8	271.0	270.8	270.0	269.2	268.4	267.4	267.7
5.5°	268.0	268.9	270.2	270.7	270.9	270.6	269.8	268.9	268.0	266.9	267.2
6°	267.5	268.6	269.8	270.5	270.7	270.4	269.5	268.6	267.5	266.4	266.7
6.5°	267.1	268.2	269.6	270.2	270.4	270.1	269.3	268.2	267.1	265.8	266.2
7°	266.6	267.7	269.2	269.9	270.2	269.9	268.9	267.8	266.5	265.2	265.6
7.5°	266.0	267.3	268.9	269.7	269.9	269.6	268.5	267.3	266.0	264.5	265.0
8°	265.5	266.9	268.5	269.3	269.6	269.2	268.2	266.8	265.4	264.0	264.3
8.5°	264.9	266.3	268.1	269.0	269.3	268.9	267.7	266.3	264.8	263.3	263.7
9°	264.4	265.8	267.6	268.6	268.9	268.5	267.3	265.8	264.2	262.6	262.9
9.5°	263.7	265.3	267.2	268.2	268.6	268.1	266.8	265.2	263.5	261.8	262.2
10°	263.1	264.7	266.7	267.8	268.1	267.6	266.3	264.6	262.7	261.0	261.5
10.5°	262.4	264.0	266.2	267.4	267.6	267.2	265.8	264.0	262.0	260.1	260.7
11°	261.6	263.3	265.6	266.8	267.2	266.7	265.2	263.3	261.2	259.4	259.9
11.5°	260.8	262.6	265.0	266.3	266.7	266.1	264.6	262.6	260.4	258.5	259.0
12°	260.1	261.9	264.3	265.8	266.0	265.6	264.0	261.9	259.6	257.6	258.1
12.5°	259.2	261.2	263.7	265.2	265.5	265.0	263.4	261.1	258.8	256.6	257.2
13°	258.3	260.4	263.0	264.6	264.9	264.4	262.6	260.3	257.8	255.7	256.2
13.5°	257.4	259.5	262.3	263.9	264.2	263.8	262.0	259.5	256.9	254.7	255.2
14°	256.5	258.7	261.5	263.2	263.6	263.1	261.2	258.7	255.9	253.7	254.2
14.5°	255.6	257.8	260.7	262.5	262.9	262.4	260.4	257.8	255.0	252.6	253.2
15°	254.6	256.9	259.9	261.8	262.2	261.6	259.5	256.9	253.9	251.6	252.1
15.5°	253.6	256.0	259.0	261.1	261.4	260.9	258.7	255.9	252.9	250.4	251.0
16°	252.5	255.0	258.2	260.2	260.6	260.1	257.8	255.0	251.8	249.3	249.9
16.5°	251.4	254.0	257.3	259.4	259.8	259.3	257.0	253.9	250.7	248.1	248.7
17°	250.3	253.0	256.3	258.5	258.9	258.4	256.0	252.9	249.5	246.9	247.5
17.5°	249.1	251.8	255.4	257.6	258.1	257.5	255.0	251.8	248.4	245.7	246.3
18°	248.0	250.8	254.4	256.7	257.2	256.5	254.0	250.8	247.2	244.5	245.0
18.5°	246.8	249.7	253.3	255.8	256.2	255.6	253.0	249.6	245.9	243.2	243.8
19°	245.6	248.5	252.3	254.7	255.2	254.6	251.9	248.5	244.7	241.8	242.5
19.5°	244.3	247.3	251.2	253.8	254.2	253.6	250.9	247.3	243.4	240.5	241.1
20°	243.1	246.2	250.0	252.6	253.2	252.5	249.7	246.1	242.1	239.1	239.7
20.5°	241.8	244.9	249.0	251.7	252.0	251.5	248.5	244.8	240.8	237.7	238.3
21°	240.5	243.6	247.7	250.5	250.9	250.3	247.3	243.6	239.4	236.3	237.0



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
22.5°	236.3	239.7	244.1	247.1	247.4	246.9	243.6	239.5	235.1	231.8	232.6
23°	234.9	238.4	242.8	245.8	246.3	245.6	242.3	238.2	233.7	230.3	231.0
23.5°	233.3	236.9	241.5	244.6	245.0	244.3	241.0	236.7	232.2	228.7	229.5
24°	231.9	235.5	240.2	243.3	243.8	243.0	239.6	235.3	230.6	227.2	227.9
24.5°	230.4	234.1	238.8	242.0	242.4	241.8	238.3	233.8	229.0	225.6	226.4
25°	228.9	232.6	237.4	240.6	241.1	240.4	236.9	232.4	227.5	223.9	224.7
25.5°	227.2	231.1	235.9	239.4	239.7	239.0	235.4	230.8	225.9	222.3	223.0
26°	225.6	229.5	234.5	237.9	238.4	237.6	233.9	229.3	224.2	220.6	221.4
26.5°	223.9	228.0	233.0	236.5	236.9	236.2	232.3	227.6	222.5	218.8	219.7
27°	222.4	226.4	231.5	235.0	235.5	234.7	230.8	226.1	220.8	217.1	217.9
27.5°	220.6	224.7	230.0	233.6	234.0	233.2	229.2	224.4	219.1	215.3	216.2
28°	218.9	223.2	228.4	232.0	232.5	231.7	227.6	222.8	217.4	213.6	214.4
28.5°	217.2	221.5	226.8	230.5	231.0	230.1	226.1	221.1	215.6	211.7	212.6
29°	215.5	219.9	225.2	228.9	229.5	228.5	224.4	219.4	213.8	209.9	210.8
29.5°	213.7	218.1	223.5	227.3	227.9	226.9	222.7	217.6	212.0	208.0	208.9
30°	211.9	216.3	221.8	225.7	226.3	225.2	221.0	215.8	210.2	206.1	207.1
30.5°	210.1	214.6	220.2	224.0	224.5	223.6	219.2	214.0	208.3	204.2	205.2
31°	208.2	212.8	218.4	222.4	222.9	221.9	217.4	212.2	206.4	202.3	203.3
31.5°	206.3	211.1	216.7	220.7	221.2	220.2	215.7	210.3	204.5	200.3	201.4
32°	204.5	209.1	214.9	218.9	219.5	218.4	213.7	208.5	202.5	198.4	199.3
32.5°	202.5	207.3	213.1	217.2	217.6	216.6	211.9	206.6	200.5	196.4	197.4
33°	200.6	205.4	211.3	215.4	216.0	214.8	210.0	204.7	198.6	194.4	195.4
33.5°	198.7	203.5	209.4	213.6	214.1	213.0	208.1	202.8	196.6	192.3	193.4
34°	196.6	201.5	207.6	211.7	212.3	211.0	206.2	200.7	194.6	190.3	191.4
34.5°	194.7	199.7	205.7	209.9	210.3	209.1	204.2	198.8	192.5	188.2	189.3
35°	192.6	197.7	203.8	208.0	208.6	207.2	202.2	196.8	190.5	186.2	187.2
35.5°	190.6	195.7	201.8	206.1	206.6	205.3	200.2	194.8	188.4	184.0	185.1
36°	188.6	193.6	199.8	204.2	204.7	203.3	198.2	192.7	186.3	181.9	183.0
36.5°	186.5	191.7	197.9	202.3	202.7	201.3	196.1	190.6	184.2	179.7	180.9
37°	184.4	189.6	195.8	200.3	200.8	199.2	194.0	188.5	182.0	177.6	178.7
37.5°	182.1	187.5	193.9	198.4	198.8	197.2	191.9	186.4	179.9	175.4	176.6
38°	180.1	185.3	191.8	196.4	196.7	195.2	189.8	184.3	177.7	173.2	174.4
38.5°	178.0	183.3	189.7	194.4	194.7	193.1	187.7	182.1	175.5	171.0	172.2
39°	175.8	181.1	187.6	192.3	192.7	190.9	185.5	180.0	173.3	168.8	170.0
39.5°	173.6	179.0	185.6	190.2	190.5	188.8	183.4	177.8	171.2	166.6	167.8
40°	171.5	176.9	183.5	188.1	188.5	186.6	181.1	175.7	168.9	164.4	165.6
40.5°	169.3	174.7	181.3	186.0	186.3	184.5	178.9	173.5	166.7	162.1	163.4
41°	167.0	172.4	179.2	183.9	184.2	182.3	176.7	171.3	164.5	159.9	161.1
41.5°	164.8	170.3	177.0	181.7	182.0	180.1	174.5	168.9	162.2	157.6	158.9
42°	162.5	168.1	174.7	179.5	179.9	177.9	172.2	166.7	160.0	155.4	156.6
42.5°	160.3	165.9	172.6	177.4	177.6	175.7	169.9	164.5	157.7	153.0	154.4
43°	158.0	163.6	170.4	175.2	175.5	173.4	167.6	162.2	155.4	150.8	152.0
43.5°	155.8	161.3	168.2	173.0	173.1	171.1	165.3	160.0	153.1	148.5	149.8



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	149.0	154.6	161.3	166.2	166.3	164.2	158.3	153.0	146.2	141.5	142.9
45.5°	146.6	152.2	159.1	164.0	164.0	161.9	155.9	150.7	143.9	139.2	140.6
46°	144.4	149.9	156.9	161.7	161.6	159.5	153.6	148.4	141.6	137.0	138.3
46.5°	142.1	147.7	154.6	159.3	159.1	157.1	151.2	146.1	139.2	134.6	136.1
47°	139.7	145.4	152.2	157.1	156.9	154.8	148.7	143.8	136.9	132.3	133.8
47.5°	137.4	143.0	149.8	154.8	154.3	152.5	146.4	141.5	134.6	130.1	131.5
48°	135.1	140.7	147.5	152.4	152.0	150.0	144.1	139.1	132.3	127.8	129.2
48.5°	132.9	138.3	145.2	150.0	149.4	147.6	141.6	136.8	129.9	125.4	127.0
49°	130.6	136.0	142.7	147.7	147.0	145.1	139.2	134.4	127.6	123.1	124.7
49.5°	128.2	133.7	140.3	145.4	144.4	142.7	136.8	132.1	125.3	120.9	122.5
50°	125.9	131.4	137.9	143.0	141.9	140.3	134.4	129.8	123.1	118.6	120.2
50.5°	123.6	129.1	135.5	140.6	139.3	137.8	132.0	127.5	120.7	116.3	117.9
51°	121.3	126.7	133.1	138.3	136.9	135.2	129.6	125.2	118.4	114.1	115.6
51.5°	119.0	124.4	130.6	135.8	134.4	132.7	127.2	122.9	116.1	111.8	113.3
52°	116.7	122.0	128.2	133.3	131.9	130.1	124.8	120.6	113.9	109.6	111.1
52.5°	114.5	119.7	125.8	130.9	129.2	127.7	122.3	118.3	111.6	107.3	108.9
53°	112.4	117.4	123.4	128.4	126.6	125.1	119.8	115.9	109.4	105.1	106.7
53.5°	110.0	115.1	120.9	125.9	124.1	122.6	117.4	113.6	107.1	102.9	104.5
54°	107.8	112.8	118.5	123.4	121.5	120.1	115.0	111.4	104.9	100.7	102.3
54.5°	105.5	110.4	116.0	120.9	118.9	117.6	112.6	109.1	102.7	98.5	100.0
55°	103.3	108.1	113.6	118.4	116.3	115.0	110.1	106.8	100.4	96.3	97.9
55.5°	101.1	105.8	111.2	115.9	113.7	112.4	107.7	104.5	98.2	94.3	95.7
56°	98.9	103.5	108.7	113.4	111.1	110.0	105.3	102.2	96.0	92.0	93.6
56.5°	96.7	101.2	106.2	110.8	108.5	107.4	102.9	100.0	93.8	89.9	91.4
57°	94.5	99.0	103.8	108.3	105.9	105.0	100.5	97.7	91.7	87.9	89.4
57.5°	92.3	96.7	101.4	105.8	103.4	102.4	98.0	95.5	89.6	85.8	87.3
58°	90.2	94.4	99.0	103.3	101.0	99.9	95.7	93.2	87.5	83.7	85.1
58.5°	88.1	92.1	96.5	100.7	98.4	97.4	93.2	91.0	85.4	81.7	83.0
59°	86.0	89.9	94.1	98.3	95.9	94.9	90.9	88.8	83.4	79.6	81.0
59.5°	83.9	87.7	91.8	95.7	93.4	92.5	88.5	86.6	81.3	77.6	79.0
60°	81.8	85.5	89.4	93.3	91.0	90.1	86.3	84.4	79.2	75.7	77.0
60.5°	79.7	83.3	87.1	90.8	88.4	87.6	83.9	82.2	77.2	73.7	75.0
61°	77.7	81.1	84.8	88.4	86.0	85.2	81.7	80.1	75.2	71.7	73.1
61.5°	75.6	78.9	82.5	86.0	83.6	82.8	79.4	77.9	73.3	69.8	71.1
62°	73.6	76.8	80.2	83.6	81.2	80.5	77.1	75.7	71.2	67.9	69.2
62.5°	71.6	74.6	77.9	81.2	78.8	78.2	74.9	73.7	69.3	66.0	67.3
63°	69.6	72.6	75.7	78.8	76.5	75.9	72.7	71.6	67.4	64.2	65.4
63.5°	67.7	70.4	73.5	76.6	74.2	73.6	70.5	69.5	65.5	62.5	63.6
64°	65.7	68.4	71.2	74.2	71.9	71.3	68.3	67.5	63.7	60.8	61.7
64.5°	63.8	66.3	69.1	71.9	69.7	69.1	66.2	65.4	61.9	59.1	59.9
65°	61.8	64.3	66.9	69.6	67.4	66.9	64.1	63.4	60.2	57.3	58.1
65.5°	60.0	62.4	64.8	67.4	65.1	64.7	62.1	61.4	58.5	55.5	56.4
66°	58.1	60.5	62.7	65.2	63.1	62.5	60.2	59.4	56.6	53.8	54.6



TEST NUMBER: P710085

CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
67.5°	52.6	54.8	56.5	58.7	56.9	56.2	54.2	53.6	51.3	48.7	49.5
68°	50.8	52.9	54.5	56.6	54.9	54.1	52.3	51.7	49.6	47.0	47.8
68.5°	49.0	51.0	52.5	54.4	52.8	52.0	50.3	49.7	47.8	45.3	46.1
69°	47.2	49.1	50.6	52.4	50.7	50.0	48.3	47.8	46.1	43.8	44.5
69.5°	45.5	47.3	48.6	50.3	48.7	48.1	46.4	46.0	44.4	42.1	42.9
70°	43.7	45.4	46.7	48.3	46.8	46.1	44.6	44.2	42.7	40.5	41.3
70.5°	42.0	43.6	44.8	46.3	44.8	44.2	42.8	42.4	41.0	39.0	39.7
71°	40.3	41.8	43.0	44.3	42.8	42.3	40.9	40.6	39.3	37.4	38.2
71.5°	38.6	40.1	41.1	42.4	40.9	40.4	39.1	38.8	37.7	35.9	36.7
72°	37.0	38.3	39.3	40.4	39.0	38.6	37.3	37.0	36.0	34.4	35.2
72.5°	35.4	36.5	37.5	38.5	37.2	36.7	35.5	35.3	34.4	32.8	33.7
73°	33.7	34.9	35.7	36.7	35.3	34.9	33.8	33.6	32.8	31.3	32.2
73.5°	32.1	33.2	34.0	34.8	33.5	33.2	32.1	32.0	31.3	29.8	30.8
74°	30.5	31.5	32.2	33.0	31.7	31.4	30.4	30.3	29.7	28.4	29.3
74.5°	29.0	29.9	30.6	31.2	30.0	29.6	28.7	28.6	28.1	26.9	27.9
75°	27.4	28.3	28.9	29.4	28.2	28.0	27.1	27.0	26.6	25.5	26.6
75.5°	25.9	26.7	27.3	27.7	26.5	26.3	25.5	25.4	25.1	24.1	25.2
76°	24.4	25.2	25.6	26.0	24.9	24.7	23.9	23.8	23.6	22.7	23.8
76.5°	23.0	23.7	24.1	24.4	23.2	23.1	22.4	22.3	22.2	21.3	22.5
77°	21.5	22.2	22.5	22.7	21.7	21.5	20.9	20.8	20.8	19.9	21.2
77.5°	20.1	20.7	21.0	21.1	20.1	20.0	19.4	19.3	19.4	18.6	19.9
78°	18.8	19.2	19.5	19.5	18.6	18.5	17.9	17.9	18.0	17.3	18.6
78.5°	17.4	17.8	18.0	18.0	17.1	17.0	16.5	16.5	16.6	16.0	17.4
79°	16.1	16.4	16.6	16.5	15.6	15.6	15.1	15.2	15.2	14.7	16.1
79.5°	14.8	15.1	15.2	15.1	14.2	14.2	13.8	13.8	13.9	13.5	14.9
80°	13.6	13.8	13.9	13.7	12.9	12.9	12.5	12.6	12.6	12.4	13.7
80.5°	12.3	12.6	12.6	12.3	11.6	11.6	11.3	11.4	11.4	11.2	12.5
81°	11.2	11.4	11.2	11.0	10.4	10.4	10.1	10.2	10.2	10.1	11.4
81.5°	10.1	10.2	10.0	9.8	9.2	9.2	9.0	9.1	9.1	9.1	10.3
82°	9.0	9.1	8.9	8.7	8.1	8.1	7.7	8.0	8.1	8.1	9.2
82.5°	8.0	8.1	7.8	7.6	7.1	7.1	6.5	7.1	7.1	7.2	8.2
83°	7.1	7.1	6.8	6.6	6.1	6.1	5.4	6.1	6.3	6.3	7.3
83.5°	6.2	6.2	5.9	5.7	5.3	5.2	4.6	5.3	5.5	5.6	6.4
84°	5.2	5.4	5.1	4.9	4.5	4.5	3.9	4.5	4.8	4.9	5.7
84.5°	4.4	4.6	4.4	4.2	3.9	3.7	3.3	3.8	4.2	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	3.4	3.2	3.1	2.8	2.6	2.2	2.7	3.1	3.2	3.8
86°	2.7	2.8	2.7	2.6	2.4	2.1	1.6	2.2	2.6	2.7	3.3
86.5°	2.1	2.3	2.3	2.2	2.0	1.7	1.1	1.7	2.2	2.3	2.8
87°	1.5	1.9	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	1.6	1.9
88°	1.0	1.0	1.1	0.9	0.7	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: P710085
CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-4000K

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: P710085

CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	270.7	270.7
0.5°	270.6	270.6
1°	270.4	270.5
1.5°	270.2	270.4
2°	270.0	270.2
2.5°	269.7	269.9
3°	269.3	269.7
3.5°	269.0	269.3
4°	268.6	269.1
4.5°	268.2	268.8
5°	267.8	268.4
5.5°	267.3	268.0
6°	266.8	267.5
6.5°	266.3	267.1
7°	265.7	266.6
7.5°	265.1	266.0
8°	264.6	265.5
8.5°	263.9	264.9
9°	263.2	264.4
9.5°	262.5	263.7
10°	261.8	263.1
10.5°	261.0	262.4
11°	260.2	261.6
11.5°	259.3	260.8
12°	258.5	260.1
12.5°	257.6	259.2
13°	256.6	258.3
13.5°	255.7	257.4
14°	254.7	256.5
14.5°	253.7	255.6
15°	252.6	254.6
15.5°	251.5	253.6
16°	250.4	252.5
16.5°	249.2	251.4
17°	248.1	250.3
17.5°	246.8	249.1
18°	245.6	248.0
18.5°	244.4	246.8
19°	243.1	245.6
19.5°	241.8	244.3
20°	240.5	243.1
20.5°	239.1	241.8
21°	237.7	240.5



TEST NUMBER: P710085
CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
22.5°	233.4	236.3
23°	231.9	234.9
23.5°	230.3	233.3
24°	228.8	231.9
24.5°	227.2	230.4
25°	225.6	228.9
25.5°	224.0	227.2
26°	222.4	225.6
26.5°	220.6	223.9
27°	219.0	222.4
27.5°	217.2	220.6
28°	215.4	218.9
28.5°	213.6	217.2
29°	211.8	215.5
29.5°	210.0	213.7
30°	208.2	211.9
30.5°	206.2	210.1
31°	204.4	208.2
31.5°	202.5	206.3
32°	200.5	204.5
32.5°	198.6	202.5
33°	196.6	200.6
33.5°	194.6	198.7
34°	192.6	196.6
34.5°	190.5	194.7
35°	188.5	192.6
35.5°	186.3	190.6
36°	184.2	188.6
36.5°	182.2	186.5
37°	180.1	184.4
37.5°	178.0	182.1
38°	175.8	180.1
38.5°	173.6	178.0
39°	171.4	175.8
39.5°	169.2	173.6
40°	167.0	171.5
40.5°	164.7	169.3
41°	162.5	167.0
41.5°	160.3	164.8
42°	158.0	162.5
42.5°	155.7	160.3
43°	153.5	158.0
43.5°	151.2	155.8



TEST NUMBER: P710085

CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	144.4	149.0
45.5°	142.0	146.6
46°	139.8	144.4
46.5°	137.5	142.1
47°	135.2	139.7
47.5°	132.9	137.4
48°	130.5	135.1
48.5°	128.3	132.9
49°	126.0	130.6
49.5°	123.6	128.2
50°	121.4	125.9
50.5°	119.1	123.6
51°	116.8	121.3
51.5°	114.5	119.0
52°	112.3	116.7
52.5°	110.0	114.5
53°	107.8	112.4
53.5°	105.6	110.0
54°	103.4	107.8
54.5°	101.1	105.5
55°	98.9	103.3
55.5°	96.7	101.1
56°	94.6	98.9
56.5°	92.4	96.7
57°	90.3	94.5
57.5°	88.2	92.3
58°	86.1	90.2
58.5°	83.9	88.1
59°	81.9	86.0
59.5°	79.8	83.9
60°	77.8	81.8
60.5°	75.8	79.7
61°	73.9	77.7
61.5°	71.9	75.6
62°	69.9	73.6
62.5°	68.0	71.6
63°	66.1	69.6
63.5°	64.3	67.7
64°	62.6	65.7
64.5°	60.9	63.8
65°	59.1	61.8
65.5°	57.4	60.0
66°	55.6	58.1



TEST NUMBER: P710085

CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
67.5°	50.4	52.6
68°	48.7	50.8
68.5°	47.0	49.0
69°	45.3	47.2
69.5°	43.7	45.5
70°	42.0	43.7
70.5°	40.4	42.0
71°	38.8	40.3
71.5°	37.2	38.6
72°	35.7	37.0
72.5°	34.1	35.4
73°	32.6	33.7
73.5°	31.1	32.1
74°	29.6	30.5
74.5°	28.1	29.0
75°	26.6	27.4
75.5°	25.2	25.9
76°	23.8	24.4
76.5°	22.3	23.0
77°	21.0	21.5
77.5°	19.6	20.1
78°	18.3	18.8
78.5°	17.0	17.4
79°	15.7	16.1
79.5°	14.5	14.8
80°	13.3	13.6
80.5°	12.1	12.3
81°	11.0	11.2
81.5°	9.9	10.1
82°	8.9	9.0
82.5°	7.9	8.0
83°	7.0	7.1
83.5°	6.2	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	2.7
86.5°	2.5	2.1
87°	2.0	1.5
87.5°	1.5	1.3
88°	1.0	1.0
88.5°	0.9	0.6



TEST NUMBER: P710085
CATALOG NUMBER: RA56LS9FSD2W1EWH-600lm-4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	0.2	0.2



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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



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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





21.5°	239.0	242.3	246.5	249.4	249.8	249.2	246.2	242.2	238.0	234.8	235.5
22°	237.7	241.1	245.3	248.2	248.7	248.0	244.9	240.9	236.5	233.4	234.0



44°	153.5	159.1	165.9	170.7	170.9	168.8	163.0	157.7	150.8	146.2	147.6
44.5°	151.2	156.8	163.7	168.5	168.6	166.5	160.6	155.4	148.5	143.9	145.2



66.5°	56.3	58.7	60.7	63.0	61.0	60.4	58.3	57.5	54.9	52.1	52.9
67°	54.4	56.7	58.5	60.8	59.0	58.3	56.3	55.5	53.1	50.4	51.1



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

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

Scaled Data Report





21.5°	236.3	239.0
22°	234.8	237.7



44°	149.0	153.5
44.5°	146.7	151.2

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

Scaled Data Report



66.5°	53.9	56.3
67°	52.1	54.4



89°	0.7	0.4
89.5°	0.5	0.3

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

Scaled Data Report



(END OF REPORT)