

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: P710076

Luminaire Tested: RA4LS9FSD2W1EWHDM-600lm-5000K

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P710076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A23044405A001)
Test Lab: EVERFINE
Issue Date: 10/6/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: RA4LS9FSD2W1EWHDM-600lm-5000K
Description: 4IN DM SELECTABLE LUMENS
Light Source: SELECTABLE LUMEN/CCT LEDs 90CRI / 5000K CCT
Ballast/Driver: -

Summary

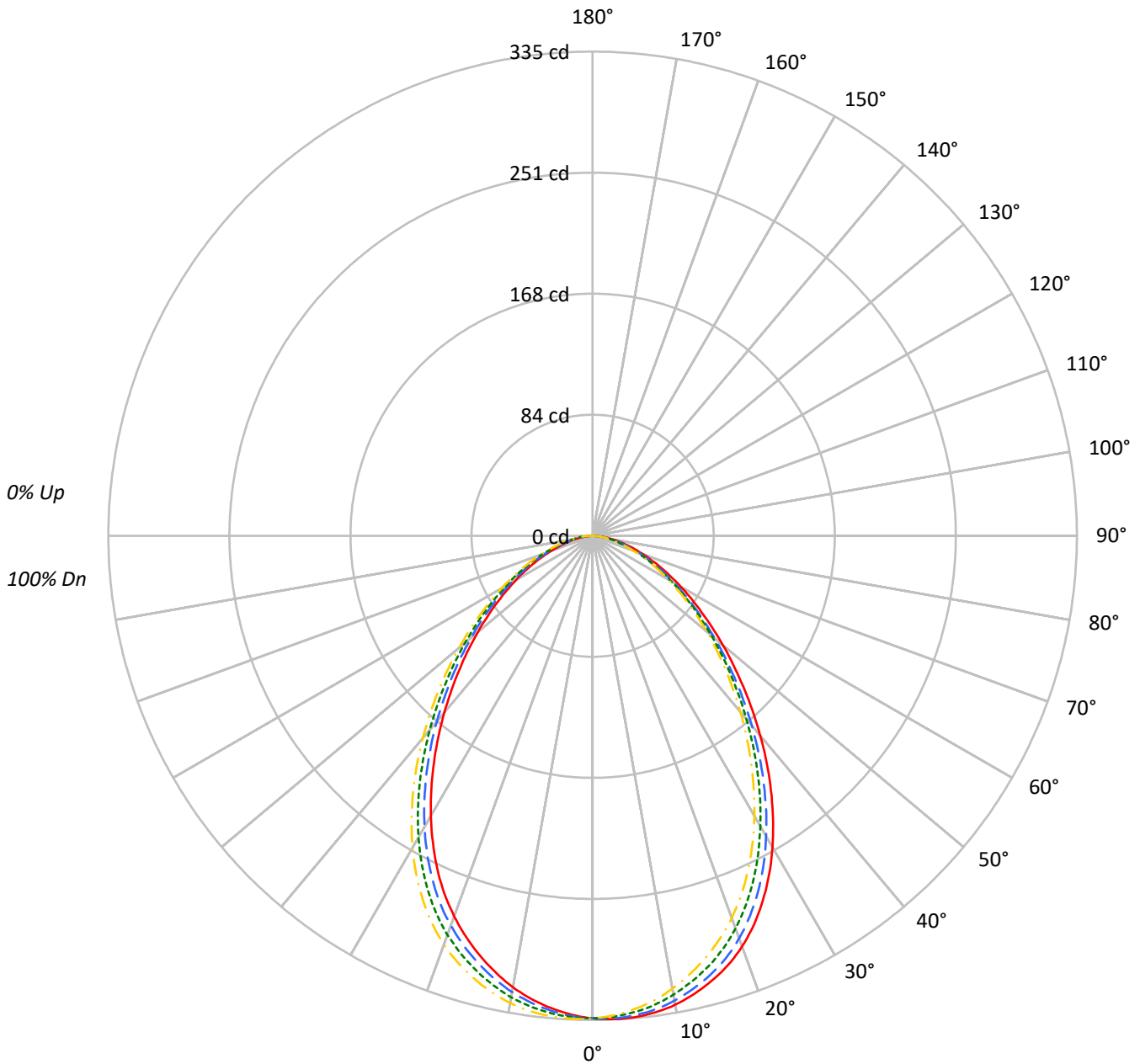
Lumens per Lamp: 896.88 (1 lamp)
Luminaire Lumens: 630.0 lumens
Efficiency: 70.2%
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.14
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P710076
CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-5000K

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	50	30	10	0		
RCR	0	84	84	84	84	82	82	82	82	78	78	78	75	75	75	72	72	72	70	70	70	70	70	70		
	1	78	75	72	70	76	73	71	69	70	68	67	68	66	65	65	64	63	61	61	61	61	61	61		
	2	72	67	62	59	70	65	62	58	63	60	57	61	58	56	59	56	54	53	53	53	53	53	53		
	3	66	60	55	51	64	59	54	50	57	53	49	55	51	48	53	50	48	46	46	46	46	46	46		
	4	61	54	48	44	60	53	48	44	51	47	43	50	46	43	48	45	42	41	41	41	41	41	41		
	5	57	49	43	39	55	48	43	39	46	42	38	45	41	38	44	40	37	36	36	36	36	36	36		
	6	53	44	39	35	52	44	38	34	42	38	34	41	37	34	40	37	34	32	32	32	32	32	32		
	7	49	41	35	31	48	40	35	31	39	34	31	38	34	31	37	33	30	29	29	29	29	29	29		
	8	46	37	32	28	45	37	32	28	36	31	28	35	31	28	34	31	28	26	26	26	26	26	26		
	9	43	35	29	26	42	34	29	26	33	29	25	33	28	25	32	28	25	24	24	24	24	24	24		
	10	41	32	27	24	40	32	27	23	31	27	23	30	26	23	30	26	23	22	22	22	22	22	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	42021	42021	42021	42021
5°	42232	41790	41449	41891
10°	42094	41200	40535	41443
15°	41523	40207	39191	40559
20°	40499	38705	37526	39334
25°	38686	36506	35298	37492
30°	36155	33714	32522	35007
35°	33047	30527	29390	32017
40°	29621	27189	26203	28799
45°	26198	23956	23119	25558
50°	23005	20988	20284	22535
55°	20164	18255	17707	19813
60°	17720	15807	15429	17367
65°	15515	13519	13251	15336
70°	13578	11370	11112	13320
75°	11864	9385	9141	11524
80°	10146	8117	7610	10074
85°	6787	6931	2744	10397

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 300°
 Vertical Angle: 45°
 Luminance: 26715 cd/sqm



TEST NUMBER: P710076
 CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	31.4	5.0	3.5
10°-20°	87.1	13.8	9.7
20°-30°	122.1	19.4	13.6
30°-40°	126.9	20.1	14.1
40°-50°	107.3	17.0	12.0
50°-60°	77.8	12.3	8.7
60°-70°	48.3	7.7	5.4
70°-80°	23.2	3.7	2.6
80°-90°	5.9	0.9	0.7
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°	240.6	38.2	26.8
0°-40°	367.5	58.3	41.0
0°-60°	552.5	87.7	61.6
0°-90°	630.0	100.0	70.2
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°	630.0	100.0	70.2

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	334	334	334	334	334	
5°	334	331	328	332	334	32
15°	319	309	301	311	319	90
25°	279	263	254	270	279	128
35°	215	199	191	208	215	134
45°	147	135	130	144	147	114
55°	92	83	81	90	92	83
65°	52	45	44	52	52	52
75°	24	19	19	24	24	26
85°	5	5	2	7	5	6
90°	0	0	0	0	0	



TEST NUMBER: P710076

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-5000K

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9
0.5°	334.2	334.3	334.1	333.7	333.6	333.7	333.6	333.9	333.9	333.8	334.0
1°	334.4	334.5	334.2	333.7	333.3	333.3	333.2	333.7	333.8	333.8	334.2
1.5°	334.6	334.6	334.1	333.5	333.0	333.0	332.8	333.3	333.4	333.7	334.3
2°	334.7	334.6	334.0	333.2	332.6	332.5	332.2	332.9	333.1	333.5	334.3
2.5°	334.8	334.6	333.9	333.0	332.1	332.0	331.7	332.4	332.8	333.4	334.2
3°	334.8	334.5	333.8	332.6	331.6	331.4	331.0	331.9	332.5	333.1	334.2
3.5°	334.8	334.3	333.5	332.3	331.1	330.9	330.4	331.3	332.0	332.8	334.1
4°	334.7	334.2	333.3	331.9	330.5	330.1	329.7	330.7	331.5	332.4	333.8
4.5°	334.5	333.9	332.9	331.4	329.8	329.4	328.9	330.0	330.9	332.0	333.6
5°	334.3	333.7	332.5	330.8	329.1	328.6	328.1	329.3	330.3	331.6	333.3
5.5°	334.1	333.3	332.0	330.3	328.4	327.8	327.3	328.5	329.7	331.0	333.0
6°	333.8	332.9	331.5	329.7	327.6	326.9	326.3	327.7	329.0	330.5	332.6
6.5°	333.4	332.5	331.1	329.0	326.6	325.9	325.4	326.8	328.2	329.9	332.1
7°	333.0	332.0	330.5	328.3	325.7	324.9	324.4	326.0	327.4	329.3	331.7
7.5°	332.6	331.4	329.8	327.4	324.8	323.9	323.3	325.0	326.6	328.6	331.1
8°	332.0	330.9	329.1	326.5	323.7	322.7	322.2	324.0	325.7	327.8	330.6
8.5°	331.5	330.2	328.3	325.6	322.5	321.6	321.1	322.9	324.8	327.0	329.9
9°	330.9	329.5	327.4	324.5	321.3	320.3	319.8	321.9	323.8	326.1	329.3
9.5°	330.3	328.6	326.4	323.5	319.9	319.0	318.6	320.7	322.8	325.2	328.5
10°	329.4	327.7	325.4	322.4	318.6	317.7	317.2	319.6	321.6	324.3	327.7
10.5°	328.6	326.8	324.3	321.1	317.3	316.2	315.8	318.3	320.6	323.2	326.8
11°	327.7	325.8	323.3	319.9	315.9	314.8	314.4	317.0	319.3	322.1	325.8
11.5°	326.7	324.7	322.2	318.7	314.4	313.2	312.8	315.6	318.0	320.9	324.8
12°	325.7	323.7	321.0	317.4	312.9	311.7	311.2	314.2	316.6	319.6	323.7
12.5°	324.7	322.6	319.8	316.1	311.3	310.1	309.5	312.6	315.4	318.4	322.6
13°	323.6	321.3	318.5	314.7	309.8	308.4	307.9	311.0	313.9	317.1	321.4
13.5°	322.5	320.1	317.2	313.3	308.2	306.7	306.2	309.4	312.4	315.7	320.2
14°	321.2	318.9	315.9	311.7	306.5	305.0	304.5	307.8	310.8	314.3	319.0
14.5°	320.0	317.6	314.4	310.2	304.8	303.2	302.7	306.1	309.3	312.8	317.7
15°	318.7	316.1	312.9	308.6	303.0	301.4	300.8	304.4	307.6	311.3	316.3
15.5°	317.4	314.7	311.4	307.1	301.2	299.5	299.0	302.6	306.0	309.7	314.9
16°	315.9	313.2	309.8	305.2	299.4	297.6	297.0	300.8	304.3	308.2	313.4
16.5°	314.5	311.6	308.2	303.4	297.4	295.6	295.1	298.9	302.5	306.6	311.9
17°	313.0	309.9	306.5	301.6	295.4	293.7	293.1	297.1	300.8	304.9	310.4
17.5°	311.4	308.3	304.6	299.8	293.4	291.6	291.0	295.1	298.9	303.1	308.8
18°	309.8	306.5	302.8	297.7	291.3	289.5	288.9	293.1	297.0	301.4	307.1
18.5°	308.1	304.5	300.8	295.7	289.1	287.3	286.8	291.1	295.1	299.5	305.4
19°	306.2	302.6	298.7	293.5	286.9	285.1	284.6	289.0	293.2	297.6	303.7
19.5°	304.4	300.6	296.6	291.3	284.6	282.9	282.4	286.8	291.1	295.7	301.8
20°	302.4	298.4	294.5	289.0	282.2	280.5	280.2	284.7	289.0	293.7	300.0
20.5°	300.3	296.2	292.2	286.7	279.7	278.1	277.7	282.4	286.9	291.7	298.0
21°	298.2	293.9	289.8	284.3	277.3	275.7	275.4	280.3	284.7	289.5	296.0



TEST NUMBER: P710076

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
22.5°	291.4	286.7	282.5	276.7	269.4	268.0	267.9	273.1	277.7	282.6	289.5
23°	288.9	284.1	279.8	274.0	266.8	265.3	265.3	270.6	275.2	280.2	287.1
23.5°	286.5	281.4	277.1	271.4	263.9	262.6	262.6	267.9	272.7	277.8	284.7
24°	283.9	278.8	274.4	268.6	261.0	259.8	259.9	265.3	270.1	275.3	282.3
24.5°	281.2	276.1	271.8	265.9	258.1	257.0	257.1	262.6	267.4	272.7	279.7
25°	278.6	273.3	268.9	262.9	255.3	254.1	254.2	259.9	264.7	270.0	277.2
25.5°	275.8	270.4	266.0	260.1	252.3	251.1	251.3	257.1	261.9	267.3	274.5
26°	273.1	267.5	263.0	257.1	249.3	248.2	248.4	254.2	259.1	264.5	271.9
26.5°	270.2	264.5	260.1	254.1	246.3	245.3	245.4	251.3	256.3	261.7	269.1
27°	267.3	261.5	257.0	251.0	243.2	242.1	242.4	248.4	253.3	258.9	266.3
27.5°	264.3	258.4	253.9	248.0	240.1	239.1	239.3	245.4	250.5	256.0	263.4
28°	261.3	255.3	250.7	244.9	237.0	236.0	236.3	242.4	247.4	253.0	260.5
28.5°	258.3	252.0	247.6	241.7	233.9	232.8	233.2	239.4	244.5	250.0	257.6
29°	255.1	248.7	244.4	238.4	230.7	229.7	230.1	236.3	241.4	247.1	254.6
29.5°	252.0	245.5	241.2	235.2	227.4	226.4	226.9	233.1	238.4	244.0	251.7
30°	248.8	242.2	237.8	232.0	224.3	223.3	223.8	230.0	235.2	240.9	248.6
30.5°	245.6	238.9	234.6	228.8	221.0	220.0	220.5	226.8	232.0	237.7	245.5
31°	242.3	235.5	231.2	225.5	217.7	216.8	217.3	223.6	228.8	234.6	242.3
31.5°	239.0	232.1	227.8	222.2	214.5	213.6	214.1	220.5	225.7	231.2	239.1
32°	235.7	228.6	224.5	218.9	211.2	210.3	210.9	217.2	222.4	228.2	235.8
32.5°	232.2	225.2	221.0	215.5	207.8	207.1	207.6	214.0	219.1	224.8	232.6
33°	228.9	221.7	217.7	212.1	204.5	203.8	204.3	210.7	215.8	221.5	229.4
33.5°	225.5	218.1	214.2	208.8	201.2	200.6	201.1	207.4	212.6	218.3	226.1
34°	222.0	214.7	210.8	205.4	197.8	197.3	197.7	204.1	209.3	215.0	222.8
34.5°	218.6	211.2	207.4	202.0	194.5	194.0	194.5	200.9	205.9	211.7	219.5
35°	215.1	207.6	203.9	198.7	191.3	190.8	191.3	197.6	202.7	208.4	216.1
35.5°	211.6	204.2	200.4	195.3	188.0	187.5	188.1	194.3	199.4	205.1	212.7
36°	208.1	200.6	196.9	191.9	184.7	184.3	184.9	191.1	196.1	201.8	209.4
36.5°	204.7	197.0	193.5	188.6	181.4	181.1	181.6	187.7	192.7	198.3	206.1
37°	201.2	193.6	190.1	185.3	178.1	178.0	178.4	184.5	189.4	195.1	202.7
37.5°	197.6	190.0	186.5	181.9	174.9	174.6	175.2	181.3	186.1	191.8	199.3
38°	194.2	186.5	183.2	178.6	171.7	171.4	172.1	178.0	182.8	188.5	196.0
38.5°	190.8	183.0	179.8	175.3	168.5	168.3	168.9	174.8	179.7	185.1	192.6
39°	187.3	179.6	176.4	172.0	165.3	165.1	165.7	171.6	176.3	181.8	189.2
39.5°	183.8	176.2	172.9	168.7	162.2	162.0	162.6	168.4	173.2	178.5	185.9
40°	180.3	172.7	169.6	165.5	159.0	158.8	159.5	165.3	169.8	175.3	182.6
40.5°	177.0	169.3	166.3	162.3	155.9	155.8	156.4	162.2	166.7	171.9	179.3
41°	173.4	165.9	162.9	159.1	152.8	152.8	153.3	159.1	163.4	168.7	175.9
41.5°	170.1	162.6	159.6	155.9	149.7	149.7	150.3	155.9	160.3	165.5	172.6
42°	166.7	159.2	156.3	152.8	146.7	146.7	147.3	152.9	157.2	162.3	169.3
42.5°	163.4	155.8	153.2	149.6	143.7	143.7	144.3	149.8	154.1	159.1	166.1
43°	160.1	152.6	149.9	146.5	140.7	140.8	141.4	146.8	151.0	155.9	162.9
43.5°	156.9	149.4	146.9	143.5	137.8	137.9	138.4	143.9	147.9	152.9	159.7



TEST NUMBER: P710076

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	147.2	139.9	137.5	134.6	129.1	129.5	129.9	135.2	138.9	143.6	150.1
45.5°	144.0	136.7	134.5	131.7	126.3	126.7	127.1	132.3	136.0	140.6	147.1
46°	140.9	133.7	131.6	128.9	123.5	124.0	124.4	129.5	133.1	137.6	144.0
46.5°	137.9	130.7	128.7	126.1	120.8	121.2	121.7	126.7	130.2	134.7	141.0
47°	134.8	127.8	125.9	123.3	118.1	118.5	119.0	124.0	127.3	131.8	138.0
47.5°	131.8	124.9	123.0	120.6	115.4	116.0	116.4	121.2	124.6	128.9	135.1
48°	129.0	122.0	120.1	117.8	112.8	113.4	113.7	118.4	121.8	126.0	132.2
48.5°	126.1	119.2	117.3	115.0	110.1	110.9	111.1	116.0	119.0	123.2	129.4
49°	123.3	116.3	114.6	112.4	107.7	108.3	108.6	113.3	116.2	120.5	126.6
49.5°	120.4	113.6	111.8	109.7	105.1	105.8	106.1	110.8	113.6	117.7	123.8
50°	117.5	110.9	109.2	107.2	102.6	103.3	103.6	108.2	111.0	115.1	121.1
50.5°	114.8	108.3	106.6	104.6	100.1	100.9	101.2	105.7	108.5	112.4	118.3
51°	112.1	105.6	104.0	102.1	97.8	98.5	98.8	103.2	106.0	109.8	115.4
51.5°	109.4	103.0	101.4	99.5	95.4	96.1	96.5	100.8	103.5	107.2	112.8
52°	106.8	100.6	98.9	97.1	93.0	93.8	94.1	98.4	101.0	104.7	110.1
52.5°	104.2	98.1	96.6	94.7	90.7	91.5	91.8	96.0	98.6	102.2	107.6
53°	101.7	95.6	94.1	92.3	88.5	89.2	89.5	93.7	96.1	99.8	105.0
53.5°	99.2	93.3	91.7	90.0	86.2	87.0	87.3	91.4	93.7	97.3	102.5
54°	96.7	91.0	89.4	87.7	84.0	84.8	85.1	89.1	91.5	95.0	99.9
54.5°	94.3	88.6	87.1	85.5	81.8	82.6	82.9	86.9	89.2	92.6	97.5
55°	91.9	86.3	84.8	83.2	79.6	80.5	80.7	84.7	86.9	90.3	95.2
55.5°	89.6	84.1	82.6	81.0	77.5	78.4	78.6	82.5	84.7	88.0	92.8
56°	87.3	81.9	80.5	78.9	75.5	76.3	76.6	80.4	82.6	85.7	90.5
56.5°	85.1	79.7	78.3	76.7	73.4	74.3	74.5	78.3	80.4	83.5	88.2
57°	82.9	77.7	76.2	74.7	71.4	72.3	72.5	76.2	78.3	81.4	85.9
57.5°	80.7	75.6	74.1	72.6	69.4	70.3	70.5	74.2	76.2	79.2	83.7
58°	78.5	73.5	72.1	70.6	67.4	68.3	68.5	72.1	74.2	77.1	81.5
58.5°	76.4	71.5	70.1	68.6	65.5	66.4	66.6	70.2	72.1	75.0	79.4
59°	74.4	69.5	68.2	66.7	63.8	64.5	64.8	68.2	70.1	73.0	77.3
59.5°	72.3	67.6	66.2	64.7	62.0	62.6	63.1	66.3	68.1	71.0	75.3
60°	70.4	65.7	64.3	62.8	60.3	60.8	61.3	64.4	66.2	69.0	73.2
60.5°	68.4	64.0	62.5	60.9	58.5	58.9	59.6	62.5	64.5	67.1	71.2
61°	66.4	62.3	60.7	59.1	56.8	57.2	57.8	60.7	62.7	65.1	69.2
61.5°	64.5	60.6	58.9	57.3	55.0	55.4	56.1	58.9	61.0	63.4	67.2
62°	62.7	58.9	57.1	55.5	53.3	53.7	54.3	57.1	59.2	61.7	65.3
62.5°	60.9	57.2	55.4	53.8	51.6	52.0	52.6	55.4	57.5	60.0	63.4
63°	59.1	55.5	53.7	52.0	49.9	50.3	50.9	53.7	55.7	58.3	61.6
63.5°	57.3	53.8	52.0	50.4	48.2	48.6	49.3	52.0	54.0	56.6	59.7
64°	55.6	52.1	50.3	48.7	46.6	47.0	47.7	50.3	52.3	54.9	57.9
64.5°	53.8	50.5	48.7	47.1	45.0	45.4	46.1	48.6	50.7	53.1	56.2
65°	52.1	48.9	47.0	45.4	43.4	43.9	44.5	47.0	49.0	51.5	54.4
65.5°	50.5	47.3	45.5	43.8	41.9	42.3	42.9	45.4	47.4	49.8	52.7
66°	48.9	45.8	44.0	42.3	40.4	40.8	41.4	43.9	45.8	48.2	51.0



TEST NUMBER: P710076

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
67.5°	44.2	41.3	39.5	37.8	36.0	36.4	37.0	39.3	41.2	43.5	46.1
68°	42.7	39.9	38.1	36.4	34.6	35.0	35.6	37.9	39.7	42.0	44.6
68.5°	41.2	38.4	36.6	35.0	33.2	33.5	34.2	36.4	38.3	40.5	43.0
69°	39.8	37.1	35.3	33.6	31.8	32.2	32.8	35.0	36.8	39.1	41.5
69.5°	38.3	35.7	33.9	32.2	30.5	30.9	31.5	33.7	35.4	37.6	40.0
70°	36.9	34.3	32.6	30.9	29.2	29.6	30.2	32.3	34.1	36.2	38.6
70.5°	35.6	33.0	31.2	29.6	28.0	28.3	28.9	31.0	32.7	34.8	37.1
71°	34.2	31.7	30.0	28.3	26.7	27.0	27.7	29.7	31.4	33.5	35.7
71.5°	32.9	30.5	28.7	27.1	25.5	25.8	26.4	28.4	30.1	32.2	34.3
72°	31.6	29.2	27.5	25.9	24.3	24.7	25.2	27.2	28.9	30.8	33.0
72.5°	30.3	28.0	26.3	24.7	23.2	23.5	24.1	26.0	27.6	29.6	31.6
73°	29.1	26.8	25.1	23.6	22.1	22.4	23.0	24.8	26.4	28.3	30.3
73.5°	27.9	25.6	24.0	22.4	21.0	21.3	21.9	23.7	25.3	27.1	29.1
74°	26.7	24.5	22.9	21.4	20.0	20.3	20.8	22.6	24.1	25.9	27.8
74.5°	25.5	23.4	21.8	20.3	18.9	19.2	19.8	21.5	23.0	24.8	26.6
75°	24.4	22.3	20.8	19.3	18.0	18.2	18.8	20.5	21.9	23.7	25.4
75.5°	23.2	21.3	19.8	18.3	17.0	17.3	17.8	19.5	20.9	22.6	24.3
76°	22.1	20.3	18.8	17.3	16.1	16.4	16.9	18.5	19.9	21.5	23.1
76.5°	21.1	19.2	17.8	16.4	15.3	15.5	16.0	17.5	18.9	20.5	22.0
77°	20.1	18.3	16.9	15.5	14.5	14.7	15.2	16.6	17.9	19.4	20.9
77.5°	19.0	17.3	16.0	14.7	13.7	13.9	14.4	15.8	17.0	18.5	19.9
78°	18.1	16.4	15.1	13.9	13.0	13.2	13.6	14.9	16.1	17.5	18.9
78.5°	17.1	15.5	14.3	13.1	12.3	12.6	12.8	14.2	15.2	16.6	17.9
79°	16.1	14.7	13.4	12.4	11.8	11.9	12.1	13.4	14.4	15.7	17.0
79.5°	15.1	13.8	12.7	11.7	11.2	11.3	11.4	12.7	13.6	14.8	16.0
80°	14.0	12.9	11.9	11.2	10.6	10.6	10.5	12.0	12.9	13.9	15.1
80.5°	12.9	12.1	11.2	10.6	9.9	9.9	9.6	11.3	12.3	13.1	14.2
81°	11.8	11.2	10.6	9.9	9.3	9.1	8.8	10.5	11.6	12.4	13.4
81.5°	10.8	10.4	10.0	9.3	8.6	8.3	7.9	9.7	11.0	11.7	12.6
82°	9.8	9.6	9.3	8.6	8.0	7.6	7.0	8.9	10.3	11.1	11.8
82.5°	8.9	8.8	8.7	8.0	7.3	6.8	6.1	8.1	9.6	10.4	11.0
83°	8.1	8.1	8.1	7.3	6.7	6.0	5.3	7.3	9.0	9.7	10.3
83.5°	7.3	7.3	7.4	6.7	6.0	5.3	4.4	6.5	8.3	9.1	9.6
84°	6.4	6.6	6.8	6.0	5.4	4.5	3.5	5.7	7.7	8.4	9.0
84.5°	5.6	5.9	6.1	5.4	4.8	3.9	2.7	4.8	7.0	7.8	8.4
85°	4.7	5.1	5.5	4.8	4.2	3.2	1.9	4.0	6.3	7.2	7.8
85.5°	3.8	4.4	4.9	4.2	3.5	2.7	1.1	3.4	5.7	6.5	7.1
86°	3.0	3.7	4.3	3.4	2.9	2.2	0.6	2.7	5.0	5.7	6.4
86.5°	2.3	3.1	3.6	2.6	2.2	1.7	0.5	2.1	4.3	5.0	5.7
87°	1.5	2.5	3.0	2.0	1.6	1.4	0.4	1.7	3.6	4.2	5.1
87.5°	0.8	2.1	2.3	1.2	1.0	1.0	0.3	1.4	2.9	3.4	4.4
88°	0.6	1.7	1.7	0.4	0.4	0.5	0.2	1.1	2.1	2.6	3.7
88.5°	0.5	1.3	1.1	0.2	0.0	0.1	0.1	0.7	1.6	1.9	2.9



TEST NUMBER: P710076

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-5000K

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: P710076

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	333.9	333.9
0.5°	334.2	334.2
1°	334.4	334.4
1.5°	334.6	334.6
2°	334.6	334.7
2.5°	334.7	334.8
3°	334.7	334.8
3.5°	334.6	334.8
4°	334.4	334.7
4.5°	334.3	334.5
5°	334.1	334.3
5.5°	333.8	334.1
6°	333.4	333.8
6.5°	333.1	333.4
7°	332.6	333.0
7.5°	332.2	332.6
8°	331.6	332.0
8.5°	331.1	331.5
9°	330.4	330.9
9.5°	329.7	330.3
10°	328.9	329.4
10.5°	328.1	328.6
11°	327.1	327.7
11.5°	326.2	326.7
12°	325.1	325.7
12.5°	324.1	324.7
13°	323.0	323.6
13.5°	321.8	322.5
14°	320.6	321.2
14.5°	319.3	320.0
15°	318.0	318.7
15.5°	316.7	317.4
16°	315.3	315.9
16.5°	313.7	314.5
17°	312.3	313.0
17.5°	310.8	311.4
18°	309.1	309.8
18.5°	307.4	308.1
19°	305.7	306.2
19.5°	303.9	304.4
20°	301.9	302.4
20.5°	299.9	300.3
21°	297.8	298.2



TEST NUMBER: P710076
CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
22.5°	291.2	291.4
23°	288.8	288.9
23.5°	286.4	286.5
24°	283.9	283.9
24.5°	281.4	281.2
25°	278.7	278.6
25.5°	276.0	275.8
26°	273.3	273.1
26.5°	270.6	270.2
27°	267.7	267.3
27.5°	264.8	264.3
28°	262.0	261.3
28.5°	258.9	258.3
29°	255.9	255.1
29.5°	252.8	252.0
30°	249.7	248.8
30.5°	246.5	245.6
31°	243.4	242.3
31.5°	240.2	239.0
32°	236.9	235.7
32.5°	233.6	232.2
33°	230.3	228.9
33.5°	227.0	225.5
34°	223.7	222.0
34.5°	220.3	218.6
35°	216.9	215.1
35.5°	213.5	211.6
36°	210.1	208.1
36.5°	206.7	204.7
37°	203.3	201.2
37.5°	199.9	197.6
38°	196.4	194.2
38.5°	193.0	190.8
39°	189.6	187.3
39.5°	186.2	183.8
40°	182.8	180.3
40.5°	179.6	177.0
41°	176.2	173.4
41.5°	172.7	170.1
42°	169.4	166.7
42.5°	166.1	163.4
43°	162.9	160.1
43.5°	159.6	156.9



TEST NUMBER: P710076

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	150.0	147.2
45.5°	146.8	144.0
46°	143.8	140.9
46.5°	140.7	137.9
47°	137.7	134.8
47.5°	134.7	131.8
48°	131.7	129.0
48.5°	128.8	126.1
49°	125.8	123.3
49.5°	123.0	120.4
50°	120.2	117.5
50.5°	117.4	114.8
51°	114.7	112.1
51.5°	112.0	109.4
52°	109.4	106.8
52.5°	106.7	104.2
53°	104.2	101.7
53.5°	101.6	99.2
54°	99.1	96.7
54.5°	96.7	94.3
55°	94.2	91.9
55.5°	91.9	89.6
56°	89.6	87.3
56.5°	87.2	85.1
57°	85.0	82.9
57.5°	82.7	80.7
58°	80.5	78.5
58.5°	78.3	76.4
59°	76.2	74.4
59.5°	74.1	72.3
60°	72.1	70.4
60.5°	70.1	68.4
61°	68.1	66.4
61.5°	66.2	64.5
62°	64.4	62.7
62.5°	62.6	60.9
63°	60.9	59.1
63.5°	59.1	57.3
64°	57.3	55.6
64.5°	55.6	53.8
65°	53.8	52.1
65.5°	52.1	50.5
66°	50.5	48.9



TEST NUMBER: P710076

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
67.5°	45.6	44.2
68°	44.1	42.7
68.5°	42.5	41.2
69°	41.1	39.8
69.5°	39.6	38.3
70°	38.1	36.9
70.5°	36.7	35.6
71°	35.3	34.2
71.5°	33.9	32.9
72°	32.6	31.6
72.5°	31.3	30.3
73°	30.0	29.1
73.5°	28.8	27.9
74°	27.5	26.7
74.5°	26.3	25.5
75°	25.2	24.4
75.5°	24.0	23.2
76°	22.9	22.1
76.5°	21.8	21.1
77°	20.8	20.1
77.5°	19.7	19.0
78°	18.7	18.1
78.5°	17.8	17.1
79°	16.8	16.1
79.5°	15.9	15.1
80°	14.9	14.0
80.5°	13.9	12.9
81°	12.9	11.8
81.5°	12.0	10.8
82°	11.1	9.8
82.5°	10.2	8.9
83°	9.4	8.1
83.5°	8.6	7.3
84°	7.7	6.4
84.5°	7.0	5.6
85°	6.3	4.7
85.5°	5.5	3.8
86°	4.7	3.0
86.5°	4.0	2.3
87°	3.3	1.5
87.5°	2.7	0.8
88°	2.2	0.6
88.5°	1.8	0.5



TEST NUMBER: P710076
CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-5000K

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





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

Scaled Data Report





21.5°	296.0	291.6	287.4	281.8	274.7	273.2	273.0	277.9	282.5	287.3	293.9
22°	293.7	289.1	284.9	279.2	272.2	270.7	270.6	275.6	280.1	285.0	291.6



44°	153.6	146.2	143.6	140.5	134.9	135.1	135.5	141.0	144.9	149.8	156.4
44.5°	150.4	143.0	140.5	137.5	132.0	132.3	132.7	138.0	141.9	146.6	153.3



66.5°	47.4	44.3	42.5	40.8	38.9	39.3	39.9	42.3	44.3	46.6	49.4
67°	45.7	42.8	40.9	39.3	37.4	37.8	38.4	40.8	42.7	45.0	47.7



89°	0.3	1.0	0.5	0.0	0.0	0.0	0.0	0.4	1.1	1.1	2.2
89.5°	0.2	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.5	1.6

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

Scaled Data Report





21.5°	295.8	296.0
22°	293.4	293.7



44°	156.4	153.6
44.5°	153.1	150.4



66.5°	48.9	47.4
67°	47.2	45.7



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)