

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: P710073

Luminaire Tested: RA4LS9FSD2W1EWHDM-600lm-3000K

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P710073
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-3000K
Description: 4IN DM SELECTABLE LUMENS
Light Source: SELECTABLE LUMEN/CCT LEDs 90CRI / 3000K CCT
Ballast/Driver: -

Summary

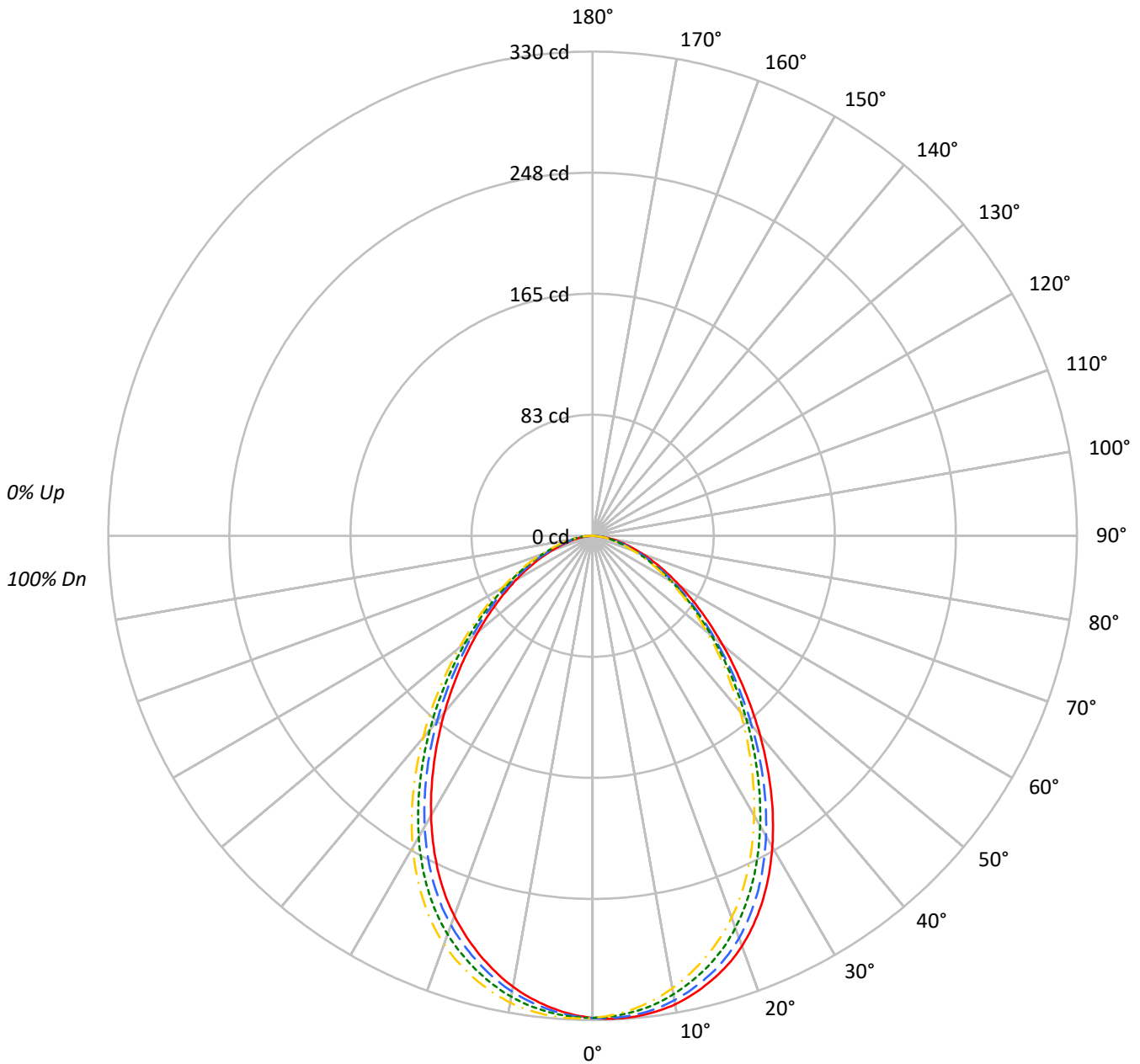
Lumens per Lamp: 896.88 (1 lamp)
Luminaire Lumens: 620.0 lumens
Efficiency: 69.1%
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.14
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 6.2
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	82	82	82	82	80	80	80	80	77	77	77	74	74	74	71	71	71	69								
1	76	74	71	69	75	72	70	68	69	67	66	66	65	64	64	63	62	60								
2	70	66	61	58	69	64	61	57	62	59	56	60	57	55	58	56	54	52								
3	65	59	54	50	63	58	53	49	56	52	49	54	50	48	52	49	47	46								
4	60	53	47	43	59	52	47	43	50	46	42	49	45	42	47	44	41	40								
5	56	48	42	38	54	47	42	38	46	41	38	44	40	37	43	40	37	36								
6	52	44	38	34	51	43	38	34	42	37	34	41	37	33	40	36	33	32								
7	49	40	34	31	47	39	34	30	38	34	30	37	33	30	37	33	30	29								
8	45	37	31	28	44	36	31	28	35	31	27	35	30	27	34	30	27	26								
9	43	34	29	25	42	34	29	25	33	28	25	32	28	25	32	28	25	24								
10	40	32	27	23	39	31	26	23	31	26	23	30	26	23	29	26	23	22								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	41354	41354	41354	41354
5°	41563	41133	40792	41222
10°	41430	40548	39884	40778
15°	40859	39569	38579	39921
20°	39857	38089	36924	38705
25°	38075	35923	34743	36895
30°	35589	33176	31999	34441
35°	32524	30035	28914	31510
40°	29161	26762	25793	28339
45°	25771	23582	22746	25166
50°	22653	20656	19970	22163
55°	19835	17970	17421	19506
60°	17418	15555	15203	17090
65°	15276	13311	13043	15068
70°	13394	11186	10928	13099
75°	11670	9239	8996	11330
80°	9929	7972	7537	9929
85°	6787	6787	2744	10252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 300°
 Vertical Angle: 45°
 Luminance: 26305 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	30.9	5.0	3.4
10°-20°	85.7	13.8	9.6
20°-30°	120.2	19.4	13.4
30°-40°	124.8	20.1	13.9
40°-50°	105.6	17.0	11.8
50°-60°	76.5	12.3	8.5
60°-70°	47.5	7.7	5.3
70°-80°	22.9	3.7	2.6
80°-90°	5.8	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°	236.8	38.2	26.4
0°-40°	361.7	58.3	40.3
0°-60°	543.8	87.7	60.6
0°-90°	620.0	100.0	69.1
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°	620.0	100.0	69.1

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	329	329	329	329	329	
5°	329	326	323	326	329	31
15°	314	304	296	306	314	88
25°	274	259	250	266	274	126
35°	212	196	188	205	212	132
45°	145	132	128	141	145	112
55°	90	82	79	89	90	81
65°	51	45	44	51	51	51
75°	24	19	18	23	24	26
85°	5	5	2	7	5	6
90°	0	0	0	0	0	



TEST NUMBER: P710073

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-3000K

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	328.6	328.6	328.6	328.6	328.6	328.6	328.6	328.6	328.6	328.6	328.6
0.5°	328.9	329.0	328.8	328.4	328.3	328.4	328.3	328.6	328.6	328.5	328.7
1°	329.1	329.2	328.8	328.4	328.0	328.1	327.9	328.4	328.5	328.5	328.9
1.5°	329.3	329.3	328.8	328.2	327.7	327.7	327.5	328.0	328.1	328.4	329.0
2°	329.4	329.3	328.7	327.9	327.3	327.2	327.0	327.6	327.8	328.2	329.0
2.5°	329.5	329.3	328.6	327.7	326.9	326.7	326.4	327.1	327.5	328.1	328.9
3°	329.4	329.2	328.5	327.4	326.4	326.2	325.8	326.6	327.2	327.8	328.9
3.5°	329.5	329.0	328.2	327.0	325.8	325.6	325.2	326.0	326.7	327.5	328.7
4°	329.4	328.9	328.0	326.6	325.2	324.9	324.5	325.5	326.2	327.1	328.5
4.5°	329.2	328.6	327.6	326.1	324.6	324.2	323.7	324.8	325.7	326.8	328.3
5°	329.0	328.4	327.2	325.6	323.9	323.4	322.9	324.1	325.0	326.3	328.0
5.5°	328.8	328.0	326.8	325.1	323.1	322.6	322.1	323.3	324.5	325.8	327.7
6°	328.5	327.6	326.3	324.5	322.4	321.7	321.1	322.5	323.8	325.2	327.3
6.5°	328.1	327.2	325.8	323.8	321.5	320.7	320.2	321.6	323.0	324.6	326.9
7°	327.7	326.7	325.3	323.1	320.5	319.8	319.2	320.8	322.2	324.0	326.4
7.5°	327.3	326.2	324.6	322.2	319.6	318.7	318.2	319.9	321.4	323.4	325.8
8°	326.8	325.6	323.8	321.3	318.6	317.6	317.1	318.9	320.5	322.6	325.3
8.5°	326.2	324.9	323.0	320.4	317.4	316.5	316.0	317.8	319.6	321.8	324.7
9°	325.6	324.2	322.2	319.4	316.2	315.2	314.8	316.7	318.7	320.9	324.0
9.5°	325.0	323.4	321.2	318.3	314.9	314.0	313.5	315.6	317.6	320.1	323.3
10°	324.2	322.5	320.3	317.3	313.6	312.6	312.1	314.5	316.5	319.1	322.5
10.5°	323.4	321.6	319.2	316.1	312.3	311.2	310.8	313.3	315.5	318.1	321.6
11°	322.5	320.6	318.2	314.9	310.9	309.8	309.4	312.0	314.2	317.0	320.6
11.5°	321.6	319.6	317.1	313.6	309.4	308.2	307.8	310.6	312.9	315.8	319.7
12°	320.6	318.5	315.9	312.4	308.0	306.7	306.3	309.2	311.6	314.5	318.6
12.5°	319.5	317.4	314.7	311.1	306.4	305.1	304.6	307.7	310.4	313.3	317.5
13°	318.5	316.2	313.4	309.7	304.9	303.5	303.0	306.1	308.9	312.0	316.3
13.5°	317.4	315.0	312.2	308.3	303.3	301.8	301.3	304.5	307.4	310.7	315.1
14°	316.1	313.8	310.8	306.7	301.6	300.1	299.6	302.9	305.9	309.3	313.9
14.5°	314.9	312.5	309.4	305.3	299.9	298.4	297.9	301.2	304.4	307.8	312.7
15°	313.6	311.1	308.0	303.7	298.2	296.6	296.1	299.6	302.7	306.4	311.2
15.5°	312.3	309.7	306.4	302.2	296.4	294.7	294.2	297.8	301.1	304.8	309.9
16°	310.9	308.2	304.9	300.4	294.6	292.9	292.3	296.0	299.5	303.3	308.4
16.5°	309.5	306.7	303.3	298.6	292.7	290.9	290.4	294.2	297.7	301.7	306.9
17°	308.0	305.0	301.6	296.8	290.7	289.0	288.5	292.4	296.0	300.0	305.4
17.5°	306.5	303.4	299.8	295.0	288.7	287.0	286.4	290.4	294.2	298.3	303.9
18°	304.9	301.6	298.0	293.0	286.7	284.9	284.3	288.5	292.3	296.6	302.3
18.5°	303.2	299.7	296.0	291.0	284.5	282.7	282.2	286.4	290.4	294.8	300.6
19°	301.4	297.8	294.0	288.8	282.3	280.6	280.1	284.5	288.5	292.9	298.9
19.5°	299.5	295.8	291.9	286.7	280.1	278.4	277.9	282.3	286.5	291.0	297.0
20°	297.6	293.6	289.8	284.4	277.7	276.1	275.7	280.2	284.4	289.0	295.2
20.5°	295.5	291.5	287.5	282.1	275.3	273.7	273.3	278.0	282.4	287.1	293.3
21°	293.4	289.3	285.2	279.8	272.9	271.4	271.0	275.8	280.1	284.9	291.3

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
22.5°	286.8	282.1	278.0	272.3	265.2	263.8	263.7	268.7	273.3	278.2	284.9
23°	284.3	279.5	275.4	269.6	262.5	261.1	261.1	266.3	270.8	275.8	282.5
23.5°	281.9	277.0	272.7	267.1	259.7	258.4	258.4	263.7	268.3	273.3	280.2
24°	279.4	274.3	270.1	264.3	256.9	255.7	255.8	261.1	265.8	270.9	277.8
24.5°	276.8	271.7	267.4	261.6	254.0	253.0	253.0	258.4	263.1	268.4	275.3
25°	274.2	269.0	264.6	258.7	251.3	250.1	250.2	255.8	260.5	265.7	272.8
25.5°	271.5	266.1	261.8	256.0	248.3	247.2	247.3	253.0	257.8	263.1	270.1
26°	268.7	263.3	258.8	253.0	245.3	244.3	244.4	250.2	255.0	260.3	267.5
26.5°	265.9	260.3	256.0	250.1	242.4	241.4	241.5	247.3	252.2	257.6	264.8
27°	263.0	257.3	253.0	247.0	239.4	238.3	238.5	244.5	249.3	254.8	262.0
27.5°	260.2	254.3	249.9	244.1	236.3	235.3	235.5	241.5	246.5	252.0	259.3
28°	257.2	251.2	246.8	241.0	233.3	232.2	232.5	238.6	243.5	249.0	256.4
28.5°	254.2	248.0	243.7	237.8	230.1	229.1	229.5	235.6	240.6	246.0	253.5
29°	251.1	244.8	240.6	234.6	227.0	226.0	226.4	232.6	237.6	243.1	250.6
29.5°	248.0	241.6	237.4	231.5	223.8	222.8	223.3	229.4	234.6	240.1	247.7
30°	244.9	238.3	234.1	228.3	220.7	219.7	220.2	226.3	231.4	237.0	244.7
30.5°	241.7	235.1	230.8	225.1	217.5	216.6	217.0	223.2	228.3	233.9	241.6
31°	238.5	231.8	227.6	221.9	214.2	213.4	213.9	220.1	225.2	230.9	238.5
31.5°	235.2	228.4	224.2	218.6	211.1	210.2	210.7	217.0	222.1	227.6	235.3
32°	231.9	224.9	220.9	215.4	207.8	207.0	207.5	213.8	218.8	224.5	232.1
32.5°	228.6	221.6	217.5	212.1	204.5	203.8	204.3	210.6	215.6	221.2	228.9
33°	225.3	218.2	214.2	208.8	201.3	200.6	201.0	207.3	212.4	218.0	225.8
33.5°	222.0	214.7	210.8	205.5	198.0	197.4	197.9	204.1	209.2	214.9	222.5
34°	218.5	211.3	207.4	202.1	194.7	194.2	194.6	200.9	206.0	211.6	219.2
34.5°	215.1	207.9	204.1	198.8	191.5	190.9	191.4	197.7	202.7	208.3	216.0
35°	211.7	204.4	200.7	195.5	188.2	187.8	188.2	194.5	199.5	205.1	212.7
35.5°	208.3	200.9	197.2	192.2	185.0	184.5	185.1	191.3	196.2	201.8	209.4
36°	204.8	197.4	193.8	188.9	181.7	181.3	181.9	188.1	193.0	198.6	206.1
36.5°	201.5	193.9	190.4	185.6	178.6	178.2	178.7	184.8	189.7	195.2	202.8
37°	198.0	190.5	187.0	182.3	175.3	175.1	175.5	181.6	186.4	192.0	199.5
37.5°	194.5	187.0	183.6	179.0	172.1	171.8	172.4	178.4	183.1	188.7	196.2
38°	191.1	183.6	180.3	175.8	168.9	168.7	169.3	175.2	179.9	185.5	192.9
38.5°	187.7	180.1	177.0	172.5	165.8	165.6	166.2	172.0	176.8	182.2	189.6
39°	184.3	176.8	173.6	169.3	162.7	162.5	163.1	168.9	173.5	178.9	186.2
39.5°	180.9	173.4	170.2	166.0	159.6	159.4	160.0	165.7	170.4	175.6	182.9
40°	177.5	170.0	166.9	162.9	156.5	156.3	157.0	162.7	167.1	172.5	179.7
40.5°	174.2	166.6	163.7	159.7	153.4	153.3	153.9	159.6	164.0	169.2	176.4
41°	170.7	163.3	160.4	156.6	150.4	150.3	150.9	156.5	160.8	166.1	173.1
41.5°	167.4	160.0	157.1	153.5	147.4	147.3	147.9	153.5	157.8	162.9	169.9
42°	164.0	156.6	153.9	150.4	144.4	144.4	145.0	150.5	154.7	159.8	166.6
42.5°	160.8	153.4	150.8	147.2	141.4	141.4	142.0	147.5	151.7	156.6	163.4
43°	157.6	150.2	147.6	144.2	138.5	138.6	139.1	144.5	148.6	153.5	160.3
43.5°	154.4	147.1	144.6	141.2	135.6	135.7	136.2	141.6	145.5	150.4	157.2



TEST NUMBER: P710073

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	144.8	137.7	135.3	132.5	127.1	127.5	127.8	133.0	136.7	141.4	147.8
45.5°	141.7	134.6	132.4	129.6	124.3	124.7	125.1	130.2	133.8	138.4	144.7
46°	138.6	131.6	129.5	126.8	121.6	122.0	122.4	127.5	131.0	135.4	141.7
46.5°	135.7	128.6	126.7	124.1	118.9	119.3	119.8	124.7	128.1	132.6	138.7
47°	132.7	125.8	123.9	121.4	116.2	116.6	117.1	122.0	125.3	129.7	135.8
47.5°	129.7	122.9	121.0	118.7	113.6	114.2	114.5	119.3	122.6	126.9	132.9
48°	126.9	120.0	118.2	115.9	111.0	111.6	111.9	116.6	119.9	124.0	130.1
48.5°	124.1	117.3	115.4	113.2	108.4	109.1	109.4	114.1	117.1	121.3	127.3
49°	121.3	114.5	112.7	110.6	106.0	106.6	106.9	111.5	114.4	118.6	124.6
49.5°	118.5	111.8	110.1	108.0	103.4	104.1	104.4	109.0	111.8	115.8	121.9
50°	115.7	109.2	107.4	105.5	101.0	101.7	102.0	106.5	109.3	113.2	119.1
50.5°	113.0	106.5	104.9	102.9	98.5	99.3	99.6	104.0	106.8	110.6	116.4
51°	110.3	103.9	102.3	100.5	96.2	97.0	97.3	101.6	104.3	108.1	113.6
51.5°	107.6	101.4	99.8	98.0	93.9	94.6	94.9	99.2	101.8	105.5	111.0
52°	105.1	99.0	97.4	95.5	91.6	92.3	92.6	96.8	99.4	103.0	108.4
52.5°	102.6	96.5	95.0	93.2	89.2	90.0	90.3	94.5	97.0	100.6	105.8
53°	100.1	94.1	92.6	90.8	87.0	87.8	88.0	92.2	94.6	98.2	103.3
53.5°	97.6	91.8	90.3	88.6	84.8	85.6	85.9	89.9	92.3	95.8	100.9
54°	95.2	89.5	88.0	86.3	82.7	83.5	83.7	87.7	90.0	93.5	98.4
54.5°	92.8	87.2	85.7	84.2	80.5	81.3	81.6	85.5	87.8	91.1	96.0
55°	90.4	85.0	83.5	81.9	78.4	79.2	79.4	83.3	85.5	88.9	93.7
55.5°	88.2	82.8	81.3	79.8	76.3	77.1	77.4	81.2	83.4	86.6	91.4
56°	85.9	80.6	79.2	77.6	74.3	75.1	75.3	79.1	81.3	84.4	89.0
56.5°	83.7	78.4	77.1	75.5	72.3	73.1	73.3	77.0	79.1	82.2	86.8
57°	81.5	76.4	75.0	73.5	70.2	71.1	71.3	75.0	77.0	80.1	84.6
57.5°	79.4	74.4	73.0	71.5	68.3	69.2	69.4	73.0	75.0	78.0	82.4
58°	77.3	72.4	71.0	69.4	66.4	67.2	67.4	71.0	73.0	75.9	80.2
58.5°	75.2	70.4	69.0	67.5	64.5	65.3	65.5	69.1	71.0	73.9	78.1
59°	73.2	68.4	67.1	65.6	62.7	63.5	63.8	67.2	69.0	71.9	76.1
59.5°	71.2	66.6	65.2	63.7	61.0	61.6	62.1	65.3	67.1	69.9	74.1
60°	69.2	64.7	63.3	61.8	59.3	59.8	60.4	63.4	65.2	67.9	72.0
60.5°	67.3	63.0	61.5	60.0	57.6	58.0	58.6	61.5	63.4	66.0	70.0
61°	65.4	61.3	59.7	58.2	55.9	56.3	56.9	59.8	61.7	64.1	68.1
61.5°	63.5	59.6	57.9	56.4	54.1	54.5	55.2	58.0	60.0	62.4	66.2
62°	61.7	58.0	56.2	54.6	52.4	52.8	53.4	56.2	58.3	60.7	64.3
62.5°	59.9	56.3	54.5	52.9	50.7	51.2	51.8	54.5	56.6	59.1	62.4
63°	58.1	54.6	52.8	51.2	49.1	49.5	50.1	52.8	54.9	57.4	60.6
63.5°	56.4	52.9	51.1	49.6	47.5	47.9	48.5	51.1	53.2	55.7	58.8
64°	54.7	51.3	49.5	48.0	45.9	46.3	46.9	49.5	51.5	54.0	57.0
64.5°	53.0	49.7	47.9	46.3	44.3	44.7	45.3	47.9	49.9	52.3	55.3
65°	51.3	48.1	46.3	44.7	42.7	43.2	43.8	46.3	48.3	50.6	53.5
65.5°	49.7	46.6	44.8	43.2	41.2	41.6	42.3	44.7	46.6	49.0	51.9
66°	48.1	45.1	43.3	41.7	39.7	40.1	40.8	43.2	45.1	47.5	50.2



TEST NUMBER: P710073

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
67.5°	43.5	40.6	38.9	37.2	35.4	35.8	36.4	38.7	40.6	42.8	45.4
68°	42.0	39.2	37.5	35.8	34.0	34.4	35.0	37.3	39.1	41.3	43.9
68.5°	40.6	37.8	36.0	34.4	32.7	33.0	33.6	35.8	37.7	39.8	42.4
69°	39.2	36.5	34.7	33.1	31.3	31.7	32.3	34.5	36.3	38.4	40.9
69.5°	37.7	35.1	33.4	31.7	30.0	30.4	31.0	33.1	34.9	37.0	39.4
70°	36.4	33.8	32.1	30.4	28.8	29.1	29.7	31.8	33.5	35.6	38.0
70.5°	35.0	32.5	30.7	29.1	27.5	27.8	28.5	30.5	32.2	34.3	36.5
71°	33.7	31.2	29.5	27.9	26.3	26.6	27.2	29.2	30.9	32.9	35.1
71.5°	32.4	30.0	28.3	26.7	25.1	25.4	26.0	28.0	29.6	31.6	33.8
72°	31.1	28.7	27.1	25.5	23.9	24.3	24.8	26.8	28.4	30.3	32.4
72.5°	29.8	27.6	25.9	24.3	22.8	23.2	23.7	25.6	27.2	29.1	31.1
73°	28.6	26.4	24.7	23.2	21.7	22.1	22.6	24.5	26.0	27.9	29.8
73.5°	27.4	25.2	23.6	22.1	20.7	21.0	21.5	23.3	24.9	26.7	28.6
74°	26.2	24.1	22.5	21.0	19.7	19.9	20.5	22.2	23.7	25.5	27.4
74.5°	25.1	23.0	21.5	20.0	18.6	18.9	19.5	21.2	22.6	24.4	26.2
75°	24.0	22.0	20.5	19.0	17.7	18.0	18.5	20.2	21.6	23.3	25.0
75.5°	22.9	20.9	19.4	18.0	16.7	17.0	17.5	19.1	20.6	22.2	23.9
76°	21.8	19.9	18.5	17.1	15.8	16.1	16.6	18.2	19.5	21.1	22.8
76.5°	20.8	18.9	17.5	16.2	15.0	15.3	15.8	17.2	18.6	20.1	21.7
77°	19.7	18.0	16.6	15.3	14.2	14.5	15.0	16.4	17.6	19.1	20.6
77.5°	18.7	17.0	15.7	14.4	13.5	13.7	14.2	15.5	16.7	18.2	19.6
78°	17.8	16.2	14.9	13.7	12.8	13.0	13.4	14.7	15.8	17.2	18.6
78.5°	16.9	15.3	14.0	12.9	12.2	12.4	12.6	13.9	15.0	16.3	17.6
79°	15.9	14.4	13.2	12.2	11.6	11.8	11.9	13.2	14.2	15.4	16.7
79.5°	14.8	13.6	12.5	11.6	11.0	11.1	11.2	12.5	13.4	14.6	15.8
80°	13.7	12.7	11.7	11.0	10.4	10.4	10.4	11.8	12.7	13.7	14.9
80.5°	12.7	11.9	11.1	10.4	9.8	9.7	9.5	11.1	12.1	12.9	14.0
81°	11.6	11.0	10.4	9.8	9.1	9.0	8.7	10.3	11.4	12.2	13.2
81.5°	10.6	10.2	9.8	9.1	8.5	8.2	7.8	9.6	10.8	11.5	12.4
82°	9.6	9.4	9.2	8.5	7.9	7.5	6.9	8.8	10.2	10.9	11.6
82.5°	8.8	8.7	8.5	7.9	7.2	6.7	6.0	7.9	9.5	10.3	10.9
83°	8.0	7.9	7.9	7.2	6.6	5.9	5.2	7.1	8.8	9.6	10.1
83.5°	7.1	7.2	7.3	6.6	5.9	5.2	4.3	6.4	8.2	8.9	9.5
84°	6.3	6.5	6.7	5.9	5.3	4.5	3.4	5.6	7.6	8.3	8.8
84.5°	5.5	5.8	6.0	5.3	4.7	3.8	2.7	4.7	6.9	7.7	8.2
85°	4.7	5.0	5.4	4.7	4.1	3.2	1.9	4.0	6.2	7.1	7.6
85.5°	3.8	4.3	4.8	4.1	3.5	2.6	1.1	3.3	5.6	6.4	7.0
86°	3.0	3.7	4.2	3.3	2.8	2.1	0.6	2.6	4.9	5.6	6.3
86.5°	2.2	3.0	3.6	2.5	2.1	1.7	0.5	2.0	4.3	4.9	5.6
87°	1.5	2.5	2.9	1.9	1.6	1.4	0.4	1.7	3.5	4.1	5.0
87.5°	0.8	2.0	2.2	1.1	0.9	1.0	0.2	1.3	2.8	3.3	4.4
88°	0.6	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	1.1	0.2	0.0	0.1	0.1	0.7	1.5	1.9	2.9



TEST NUMBER: P710073
CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-3000K

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: P710073

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	328.6	328.6
0.5°	328.9	328.9
1°	329.1	329.1
1.5°	329.3	329.3
2°	329.3	329.4
2.5°	329.4	329.5
3°	329.4	329.4
3.5°	329.3	329.5
4°	329.1	329.4
4.5°	329.0	329.2
5°	328.8	329.0
5.5°	328.5	328.8
6°	328.1	328.5
6.5°	327.8	328.1
7°	327.3	327.7
7.5°	326.9	327.3
8°	326.3	326.8
8.5°	325.8	326.2
9°	325.1	325.6
9.5°	324.5	325.0
10°	323.7	324.2
10.5°	322.9	323.4
11°	321.9	322.5
11.5°	321.1	321.6
12°	319.9	320.6
12.5°	319.0	319.5
13°	317.8	318.5
13.5°	316.7	317.4
14°	315.5	316.1
14.5°	314.2	314.9
15°	313.0	313.6
15.5°	311.6	312.3
16°	310.3	310.9
16.5°	308.7	309.5
17°	307.3	308.0
17.5°	305.8	306.5
18°	304.2	304.9
18.5°	302.5	303.2
19°	300.8	301.4
19.5°	299.1	299.5
20°	297.1	297.6
20.5°	295.2	295.5
21°	293.1	293.4



TEST NUMBER: P710073

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
22.5°	286.6	286.8
23°	284.2	284.3
23.5°	281.9	281.9
24°	279.4	279.4
24.5°	276.9	276.8
25°	274.3	274.2
25.5°	271.6	271.5
26°	269.0	268.7
26.5°	266.3	265.9
27°	263.5	263.0
27.5°	260.6	260.2
28°	257.8	257.2
28.5°	254.8	254.2
29°	251.8	251.1
29.5°	248.8	248.0
30°	245.8	244.9
30.5°	242.6	241.7
31°	239.5	238.5
31.5°	236.4	235.2
32°	233.2	231.9
32.5°	229.9	228.6
33°	226.7	225.3
33.5°	223.4	222.0
34°	220.1	218.5
34.5°	216.8	215.1
35°	213.5	211.7
35.5°	210.1	208.3
36°	206.7	204.8
36.5°	203.4	201.5
37°	200.0	198.0
37.5°	196.7	194.5
38°	193.3	191.1
38.5°	189.9	187.7
39°	186.6	184.3
39.5°	183.2	180.9
40°	179.9	177.5
40.5°	176.7	174.2
41°	173.4	170.7
41.5°	170.0	167.4
42°	166.8	164.0
42.5°	163.5	160.8
43°	160.3	157.6
43.5°	157.0	154.4



TEST NUMBER: P710073

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	147.6	144.8
45.5°	144.5	141.7
46°	141.5	138.6
46.5°	138.5	135.7
47°	135.5	132.7
47.5°	132.5	129.7
48°	129.6	126.9
48.5°	126.7	124.1
49°	123.8	121.3
49.5°	121.0	118.5
50°	118.3	115.7
50.5°	115.6	113.0
51°	112.9	110.3
51.5°	110.2	107.6
52°	107.7	105.1
52.5°	105.0	102.6
53°	102.5	100.1
53.5°	100.0	97.6
54°	97.6	95.2
54.5°	95.1	92.8
55°	92.8	90.4
55.5°	90.4	88.2
56°	88.1	85.9
56.5°	85.9	83.7
57°	83.6	81.5
57.5°	81.4	79.4
58°	79.2	77.3
58.5°	77.1	75.2
59°	75.0	73.2
59.5°	73.0	71.2
60°	71.0	69.2
60.5°	69.0	67.3
61°	67.0	65.4
61.5°	65.1	63.5
62°	63.4	61.7
62.5°	61.6	59.9
63°	59.9	58.1
63.5°	58.2	56.4
64°	56.4	54.7
64.5°	54.7	53.0
65°	53.0	51.3
65.5°	51.3	49.7
66°	49.7	48.1



TEST NUMBER: P710073

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
67.5°	44.9	43.5
68°	43.4	42.0
68.5°	41.9	40.6
69°	40.4	39.2
69.5°	38.9	37.7
70°	37.5	36.4
70.5°	36.1	35.0
71°	34.7	33.7
71.5°	33.4	32.4
72°	32.1	31.1
72.5°	30.8	29.8
73°	29.5	28.6
73.5°	28.3	27.4
74°	27.1	26.2
74.5°	25.9	25.1
75°	24.8	24.0
75.5°	23.6	22.9
76°	22.5	21.8
76.5°	21.5	20.8
77°	20.4	19.7
77.5°	19.4	18.7
78°	18.4	17.8
78.5°	17.5	16.9
79°	16.6	15.9
79.5°	15.6	14.8
80°	14.6	13.7
80.5°	13.7	12.7
81°	12.7	11.6
81.5°	11.8	10.6
82°	10.9	9.6
82.5°	10.1	8.8
83°	9.2	8.0
83.5°	8.4	7.1
84°	7.6	6.3
84.5°	6.9	5.5
85°	6.2	4.7
85.5°	5.4	3.8
86°	4.6	3.0
86.5°	3.9	2.2
87°	3.3	1.5
87.5°	2.6	0.8
88°	2.2	0.6
88.5°	1.8	0.5



TEST NUMBER: P710073

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	0.7	0.1

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°	291.3	286.9	282.9	277.3	270.3	268.9	268.7	273.5	278.0	282.8	289.2
22°	289.0	284.5	280.4	274.8	267.8	266.4	266.3	271.2	275.7	280.5	287.0



44°	151.1	143.9	141.3	138.3	132.7	133.0	133.4	138.8	142.6	147.4	154.0
44.5°	148.0	140.7	138.3	135.3	129.9	130.2	130.6	135.8	139.6	144.3	150.8



66.5°	46.6	43.6	41.8	40.2	38.3	38.7	39.3	41.7	43.6	45.9	48.6
67°	45.0	42.1	40.3	38.7	36.8	37.2	37.8	40.2	42.0	44.3	47.0



89°	0.3	1.0	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	1.6

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

Scaled Data Report





21.5°	291.1	291.3
22°	288.8	289.0



44°	153.9	151.1
44.5°	150.7	148.0



66.5°	48.1	46.6
67°	46.5	45.0

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1121 Highway 74 South
Peachtree City, GA 30269

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)