

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: HALO

Report Number: P855579

Luminaire Tested: **HLCE6129FS1EWH-3000K**

Issue Date: 7/16/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P855579  
 Test Lab:  
 Issue Date: 7/16/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: HLCE6129FS1EWH-3000K  
 Description: 6IN 1200LM, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 3000K CCT  
 Ballast/Driver: -

**Summary**

Lumens per Lamp: 1223.3 (1 lamp)  
 Luminaire Lumens: 1220.0 lumens  
 Efficiency: 99.7%  
 Efficacy: 82.4 lumens/watt  
 Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
 Luminous Opening: Circular (Dia: 0.5' x H: 0')  
 CIE Type: Direct

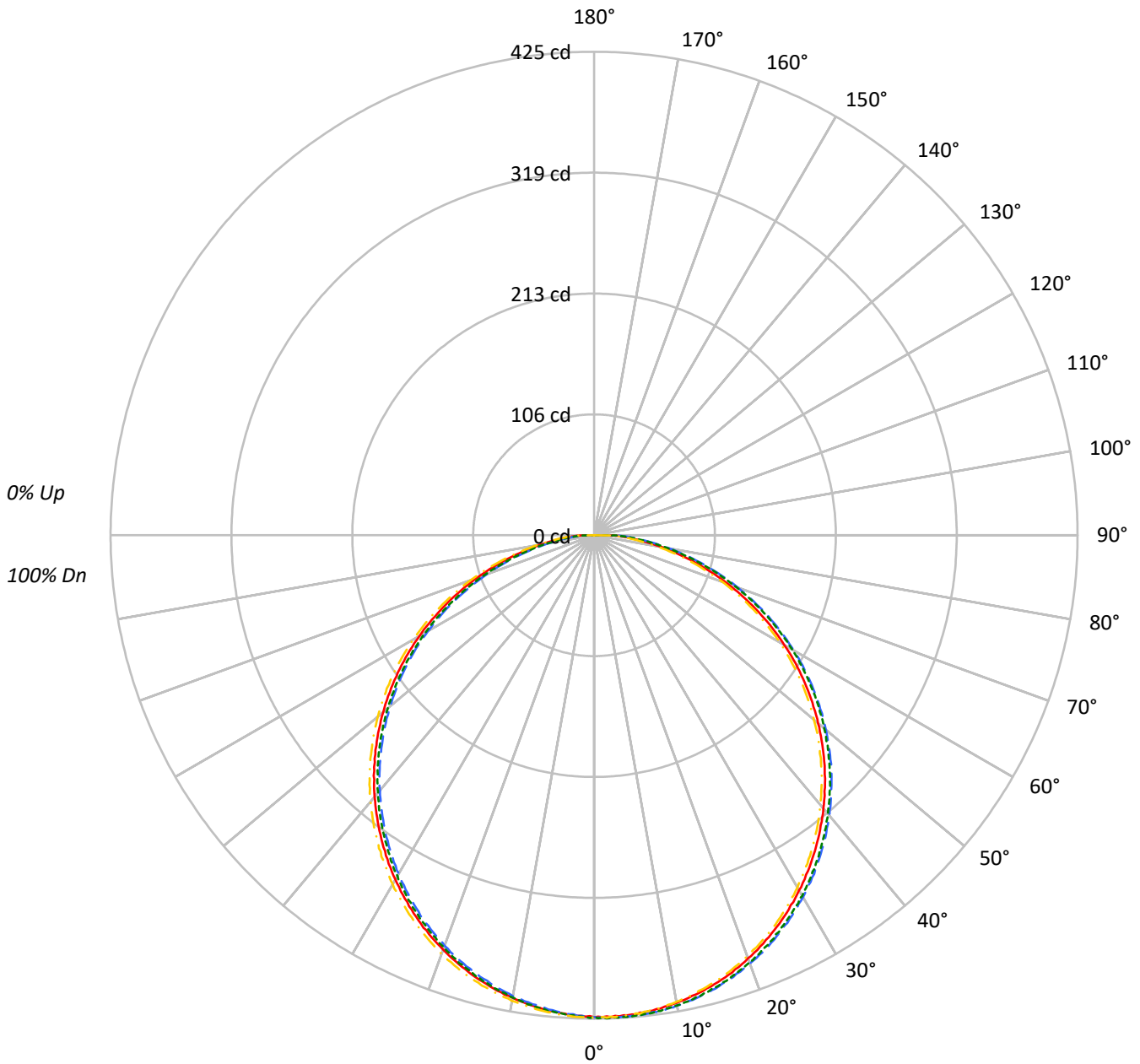
Input Watts (W): 14.8  
 Input Voltage (V): NR  
 Input Current (Ain): NR  
 Voltage Rise (V): NR  
 Power Factor: NR  
 Total Harmonic Distortion (THDi): NR  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 25 FT



Meas		Calibration Due Date	
Instrument	Identificatio		
Photometer	GONIO 1 11111111	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021
Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021

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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - · - 135°-315°

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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	50	30	10	50	30	10	0				
RCR																															
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100													
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83													
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68													
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58													
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49													
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42													
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37													
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33													
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29													
9	56	42	34	29	54	42	34	28	41	33	28	40	33	28	39	32	28	26													
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24													

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

	0°	90°	180°	270°
0°	23227	23227	23227	23227
5°	23272	23322	23123	23123
10°	23240	23369	22984	22968
15°	23190	23360	22821	22770
20°	23085	23312	22618	22495
25°	22985	23269	22374	22217
30°	22820	23174	22117	21883
35°	22660	23035	21817	21543
40°	22435	22879	21476	21140
45°	22219	22708	21087	20700
50°	21910	22515	20639	20195
55°	21600	22298	20128	19584
60°	21204	22060	19450	18792
65°	20703	21701	18588	17810
70°	20084	21254	17567	16509
75°	19359	20842	16267	14933
80°	19005	20836	15090	13291
85°	21574	24090	15788	13083

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	40.1	3.3	3.3
10°-20°	114.5	9.4	9.4
20°-30°	173.1	14.2	14.1
30°-40°	208.2	17.1	17.0
40°-50°	215.8	17.7	17.6
50°-60°	195.4	16.0	16.0
60°-70°	150.2	12.3	12.3
70°-80°	89.4	7.3	7.3
80°-90°	33.3	2.7	2.7
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°	327.7	26.9	26.8
0°-40°	535.8	43.9	43.8
0°-60°	947.0	77.6	77.4
0°-90°	1220.0	100.0	99.7
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°	1220.0	100.0	99.7

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	424	424	424	424	424	
5°	423	424	420	420	423	40
15°	409	412	402	401	409	115
25°	380	385	370	367	380	175
35°	339	344	326	322	339	212
45°	287	293	272	267	287	221
55°	226	233	211	205	226	202
65°	160	167	143	137	160	158
75°	91	98	77	70	91	97
85°	34	38	25	21	34	38
90°	0	0	0	0	0	

TEST NUMBER: P855579  
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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	423.7	423.7	423.7	423.7	423.7	423.7	423.7	423.7	423.7	423.7	423.7
0.5°	423.1	423.6	424.1	423.5	424.5	424.8	424.2	423.7	422.7	423.2	423.2
1°	423.6	424.2	423.6	424.3	424.3	424.2	423.5	422.8	423.2	423.3	423.1
1.5°	423.1	423.6	424.4	424.0	424.9	424.9	424.3	423.3	422.6	423.1	422.6
2°	423.9	424.0	423.8	424.6	424.7	424.2	423.5	422.9	422.7	422.5	422.8
2.5°	422.9	423.8	424.1	424.1	424.3	424.7	424.1	422.9	421.9	422.6	421.5
3°	423.6	424.0	424.2	424.2	424.7	423.9	423.0	422.1	422.4	421.3	421.6
3.5°	422.8	423.6	424.0	424.2	424.1	424.7	423.5	422.5	421.3	421.9	420.8
4°	423.1	423.6	424.3	424.1	424.4	423.9	422.7	421.8	421.1	420.9	420.4
4.5°	422.6	423.6	423.7	423.9	424.2	423.9	423.1	421.5	420.5	420.7	420.0
5°	422.9	423.1	424.2	424.1	423.8	423.2	421.9	420.8	420.2	419.5	419.1
5.5°	421.6	423.3	423.4	423.9	424.0	423.5	422.4	420.7	419.5	419.7	419.0
6°	422.1	422.3	423.6	423.5	423.2	422.8	421.2	420.0	419.2	418.7	417.6
6.5°	421.2	422.5	423.1	423.7	423.2	422.4	421.1	419.6	418.2	418.0	417.7
7°	421.2	422.0	422.3	422.9	422.9	421.9	420.1	418.8	417.8	417.5	416.0
7.5°	420.0	422.1	422.7	423.0	422.0	421.3	420.3	418.3	417.0	416.2	415.8
8°	420.1	420.7	421.9	422.2	422.3	421.0	419.3	417.5	416.6	416.0	414.6
8.5°	419.1	421.1	421.8	422.2	421.0	420.1	418.7	417.2	415.3	414.9	414.2
9°	418.7	419.9	420.6	421.1	420.9	420.1	417.9	415.8	414.8	414.6	412.8
9.5°	418.1	419.9	420.9	421.1	419.9	419.0	417.6	415.6	414.0	412.9	412.0
10°	417.5	418.9	419.5	420.2	419.8	419.1	416.5	414.6	412.9	412.5	411.3
10.5°	416.5	418.4	419.7	420.1	419.2	417.6	415.8	413.8	411.9	411.0	409.9
11°	416.1	417.6	418.6	419.0	418.2	417.5	414.5	412.7	411.4	410.4	409.1
11.5°	415.2	417.0	417.9	418.6	418.0	416.0	414.2	412.1	410.0	409.3	407.8
12°	414.0	416.2	417.5	417.9	417.0	415.6	413.2	411.2	409.3	408.1	406.9
12.5°	413.5	415.1	416.6	417.0	415.8	414.1	412.4	410.1	408.1	407.2	405.5
13°	412.6	414.6	415.9	416.3	415.5	414.1	411.0	408.7	407.0	405.6	404.5
13.5°	411.8	413.5	414.5	415.2	414.2	412.8	410.2	408.0	405.7	404.9	402.8
14°	410.5	413.2	414.5	414.6	413.7	411.7	409.3	406.9	404.6	403.2	401.9
14.5°	409.8	411.5	413.1	414.0	412.2	410.8	407.9	405.6	403.4	402.5	400.7
15°	408.6	411.3	412.5	413.1	411.6	409.9	406.9	404.5	402.1	400.7	398.9
15.5°	407.5	409.6	411.4	411.6	410.7	408.9	406.0	402.9	401.0	399.9	398.0
16°	406.4	408.9	409.9	411.2	409.2	407.2	404.6	402.4	399.7	397.7	396.2
16.5°	405.4	407.6	409.3	409.6	408.7	406.9	403.3	400.9	398.1	397.3	395.3
17°	404.0	406.5	408.1	409.2	407.3	405.2	402.2	399.4	396.9	395.0	393.3
17.5°	403.2	405.0	407.2	407.4	405.9	404.1	400.8	397.7	395.5	393.9	392.3
18°	401.3	404.3	405.2	406.8	405.1	402.5	399.2	397.1	393.8	392.0	390.2
18.5°	400.4	402.9	404.7	405.2	403.4	401.7	398.1	394.9	392.5	390.9	388.9
19°	398.9	401.0	403.2	404.4	402.4	399.9	396.7	394.0	391.0	389.0	387.5
19.5°	397.6	400.4	402.0	402.6	400.9	398.7	395.4	391.9	389.3	387.6	385.4
20°	395.7	398.7	400.6	401.7	399.6	397.6	393.7	391.0	387.7	385.8	384.2
20.5°	394.8	397.7	399.2	399.9	398.5	395.9	392.2	388.7	386.0	383.8	381.8
21°	393.1	395.7	398.2	399.1	396.7	394.6	390.5	387.9	384.5	382.9	380.6
21.5°	391.7	394.9	396.4	397.3	395.6	392.5	389.4	385.7	383.0	380.6	378.5
22°	389.8	392.7	395.6	395.6	393.8	391.6	387.6	384.3	381.2	379.0	376.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	388.6	391.8	393.3	394.4	392.3	389.7	385.9	382.6	379.4	377.0	375.0
23°	386.6	389.6	392.3	392.7	391.0	388.6	384.2	380.7	377.1	375.3	372.9
23.5°	385.4	388.3	390.6	391.5	389.1	386.3	382.5	378.8	376.3	373.4	371.6
24°	383.3	386.5	389.1	389.7	388.0	385.2	381.0	377.4	373.8	371.6	369.0
24.5°	381.7	385.0	387.2	388.6	385.5	383.1	378.9	375.2	372.2	369.8	367.7
25°	380.0	383.1	385.6	386.3	384.7	381.3	377.5	373.4	369.9	367.3	365.0
25.5°	378.3	381.3	384.2	385.3	382.4	379.6	375.3	371.4	368.4	366.0	363.2
26°	376.3	379.9	381.8	383.0	380.7	377.8	373.7	370.1	365.9	363.5	361.1
26.5°	374.5	377.8	380.7	381.2	379.0	376.0	371.5	367.5	364.6	361.8	359.1
27°	372.6	375.9	378.4	379.7	377.2	373.7	369.8	366.0	361.6	359.2	357.0
27.5°	370.9	374.2	377.0	377.8	375.5	372.5	367.4	363.5	360.2	357.3	354.7
28°	368.3	372.5	374.9	376.1	373.4	370.1	366.0	362.2	357.9	355.3	353.0
28.5°	367.1	370.0	373.4	373.8	371.4	368.2	363.3	359.5	356.1	353.2	350.3
29°	364.7	368.8	370.7	372.5	370.0	365.9	361.9	357.9	353.5	350.7	348.3
29.5°	362.7	366.0	369.2	370.0	367.1	364.6	359.5	354.9	351.6	348.6	346.0
30°	360.5	364.7	367.3	368.6	366.1	362.0	357.7	353.6	349.4	346.5	343.3
30.5°	358.8	362.2	365.1	366.0	363.6	360.0	354.9	351.2	347.2	344.0	341.7
31°	356.3	360.7	363.5	364.7	361.7	357.7	353.5	349.1	345.0	342.0	338.9
31.5°	354.5	357.7	360.8	361.9	359.3	355.7	350.8	346.4	342.7	339.3	337.0
32°	351.8	356.1	359.2	360.4	357.4	353.8	349.0	344.7	340.7	337.5	334.0
32.5°	350.0	353.7	356.7	357.6	355.3	351.4	346.1	342.2	337.8	334.7	332.3
33°	347.7	352.0	355.1	355.7	352.7	349.3	344.5	340.0	336.0	332.6	329.3
33.5°	345.5	349.1	352.3	353.8	351.2	346.7	341.6	337.2	333.0	329.7	327.3
34°	342.9	347.1	350.2	351.5	348.4	345.1	339.7	335.4	330.9	327.6	324.3
34.5°	340.8	344.7	348.0	349.0	346.0	342.2	336.9	332.6	328.4	324.8	322.1
35°	338.6	342.4	345.8	346.7	344.2	340.2	335.0	330.8	326.0	322.9	319.7
35.5°	336.1	340.3	343.5	344.9	341.5	337.7	332.2	327.8	323.3	319.8	316.8
36°	333.5	337.7	340.8	342.0	339.4	335.1	330.0	325.7	321.1	317.6	314.5
36.5°	331.4	335.3	338.9	340.3	337.0	332.9	327.2	322.9	318.3	314.9	311.5
37°	328.9	333.0	336.3	337.4	334.5	330.6	325.1	320.8	315.9	312.3	309.3
37.5°	326.5	330.7	334.2	335.5	332.3	328.2	322.6	317.6	313.2	309.7	306.5
38°	323.7	327.8	331.6	332.8	329.5	325.3	320.0	316.0	310.7	307.1	303.9
38.5°	321.6	325.9	328.8	330.9	327.7	323.4	317.3	312.7	308.1	304.4	301.0
39°	318.8	322.9	326.6	327.7	324.5	320.5	314.9	310.5	305.3	301.7	298.2
39.5°	316.6	320.8	323.8	325.4	322.3	318.2	312.1	307.1	302.6	299.0	296.0
40°	313.5	317.7	322.0	322.8	319.7	315.1	309.4	305.3	300.1	296.1	292.8
40.5°	311.2	315.8	318.7	320.6	317.0	313.3	306.7	302.1	297.4	293.9	290.5
41°	308.4	312.7	316.6	317.6	314.6	309.9	304.2	299.8	294.7	290.8	287.2
41.5°	305.9	310.2	313.7	315.0	311.9	307.9	301.4	296.5	291.9	288.2	284.6
42°	302.7	307.3	311.1	312.7	309.4	304.6	298.7	294.6	288.8	285.1	281.9
42.5°	300.6	304.7	308.7	309.7	306.5	302.5	296.1	291.1	286.8	282.4	278.8
43°	297.6	302.1	305.7	307.5	304.1	299.4	293.1	288.8	283.3	279.6	276.2
43.5°	295.1	299.4	303.2	304.3	301.3	296.6	290.6	285.4	281.0	276.6	272.9
44°	291.8	296.6	300.4	302.1	298.4	293.7	287.5	283.2	277.5	273.8	270.5
44.5°	289.4	293.5	297.8	299.0	296.1	291.0	285.0	280.0	275.4	270.7	267.2

TEST NUMBER: P855579  
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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	286.6	291.1	295.0	296.9	292.9	288.6	281.9	277.5	272.0	268.2	264.5
45.5°	283.5	288.0	292.0	293.3	290.4	285.4	279.5	274.0	269.4	264.8	261.3
46°	280.7	285.3	289.6	290.9	287.4	282.9	276.0	271.6	265.8	262.2	258.2
46.5°	277.9	282.4	286.4	288.0	284.4	279.6	273.6	268.5	263.5	258.7	255.6
47°	275.0	279.7	283.6	285.2	281.9	277.1	270.6	265.7	260.3	256.4	252.4
47.5°	272.2	276.6	280.8	282.4	278.7	273.8	267.6	262.3	257.5	253.0	249.5
48°	268.9	273.9	277.6	279.3	276.3	271.4	264.5	260.0	254.2	250.0	246.1
48.5°	266.4	270.7	274.9	276.5	272.6	268.1	261.7	256.4	251.1	246.6	243.6
49°	263.1	268.2	271.8	273.5	270.3	265.0	258.7	253.9	248.4	244.1	240.0
49.5°	260.3	264.8	269.2	271.0	267.1	262.2	255.5	250.4	245.2	240.5	237.2
50°	256.9	262.2	265.8	267.5	264.0	259.2	252.4	247.8	242.0	237.8	233.9
50.5°	254.4	258.8	263.2	265.0	261.3	256.2	249.5	244.4	239.0	234.5	230.6
51°	251.0	256.1	260.0	261.7	258.3	252.8	246.2	241.6	236.0	231.4	227.9
51.5°	248.2	252.9	256.8	259.0	255.3	250.3	243.3	238.1	232.7	228.3	224.4
52°	244.7	250.0	254.2	255.7	251.9	246.9	240.1	235.4	229.8	225.0	221.5
52.5°	242.0	246.5	250.6	252.8	249.2	243.9	237.1	232.0	226.3	221.9	217.9
53°	238.7	243.9	248.0	249.7	246.0	240.7	234.0	228.9	223.5	218.6	215.2
53.5°	235.7	240.4	244.6	246.6	242.7	237.5	230.6	225.5	219.9	215.7	211.6
54°	232.3	237.5	241.7	243.5	239.9	234.6	227.7	222.8	217.2	212.3	208.5
54.5°	229.3	234.1	238.2	240.3	236.5	231.4	224.4	219.2	213.5	209.1	205.1
55°	226.0	231.2	235.1	237.2	233.3	228.2	221.3	216.3	210.6	205.6	201.8
55.5°	223.0	228.0	232.2	234.0	230.2	224.8	217.8	212.6	207.1	202.7	198.7
56°	219.6	224.8	228.7	231.1	227.1	221.7	214.7	209.8	204.1	199.1	195.4
56.5°	216.7	221.5	225.8	227.5	224.0	218.4	211.6	206.2	200.5	196.1	192.2
57°	213.2	218.2	222.4	224.6	220.5	215.2	208.1	203.2	197.5	192.5	188.7
57.5°	210.2	215.1	219.1	221.3	217.5	212.0	204.9	199.7	194.1	189.5	185.6
58°	206.5	211.7	216.0	218.1	214.1	208.5	201.8	196.8	190.9	185.9	182.2
58.5°	203.4	208.5	212.5	214.5	211.0	205.5	198.3	193.0	187.3	182.7	178.7
59°	200.2	205.1	209.6	211.6	207.9	202.2	195.2	190.1	184.3	179.0	175.4
59.5°	196.8	202.2	205.8	208.3	204.4	199.1	191.7	186.3	180.8	176.0	171.8
60°	193.4	198.5	202.8	205.2	201.2	195.1	188.5	183.4	177.4	172.5	168.8
60.5°	190.1	195.6	199.4	201.8	197.8	192.3	185.1	179.7	174.0	169.2	165.1
61°	186.8	191.7	196.0	198.3	194.5	188.9	181.9	176.6	170.9	165.6	161.7
61.5°	183.3	188.8	192.9	195.1	191.1	185.7	178.4	173.0	167.4	162.4	158.3
62°	180.0	185.1	189.2	191.6	187.5	181.9	174.9	169.8	163.8	158.9	154.9
62.5°	176.6	182.1	186.1	188.5	184.3	178.8	171.5	166.1	160.7	155.3	151.8
63°	173.4	178.4	182.6	184.7	180.7	175.3	168.2	162.9	157.0	152.3	148.1
63.5°	169.7	175.3	179.4	181.6	177.5	171.9	164.5	159.3	153.9	148.5	144.8
64°	166.4	171.6	175.9	178.2	174.0	168.7	161.4	156.2	150.3	145.3	141.2
64.5°	162.9	168.4	172.2	174.9	170.6	165.1	157.8	152.6	147.1	141.8	137.9
65°	159.6	164.6	169.1	171.1	167.3	161.7	154.5	149.2	143.3	138.5	134.3
65.5°	156.1	161.4	165.4	168.0	163.7	158.3	150.8	145.6	140.2	134.7	130.9
66°	152.9	158.0	162.3	164.4	160.5	154.9	147.7	142.4	136.6	131.5	127.6
66.5°	149.1	154.6	158.7	161.0	157.0	151.1	144.1	138.9	133.3	128.0	124.0
67°	146.0	151.0	155.1	157.8	153.5	148.2	140.8	135.5	129.7	124.5	120.7



TEST NUMBER: P855579  
 CATALOG NUMBER: HLCE6129FS1EWH-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	142.3	147.7	151.9	154.1	150.1	144.4	137.2	132.0	126.4	121.1	117.2
68°	139.0	144.2	148.3	150.7	146.5	141.2	134.0	128.7	123.0	117.8	113.8
68.5°	135.4	140.9	145.0	147.3	143.2	137.5	130.4	125.2	119.6	114.4	110.5
69°	132.1	137.2	141.3	144.0	139.4	134.3	127.0	121.7	116.1	111.0	106.9
69.5°	128.5	133.9	137.9	140.3	136.1	130.6	123.4	118.3	112.7	107.6	103.9
70°	125.3	130.4	134.5	137.0	132.6	127.3	120.2	115.0	109.6	104.2	100.4
70.5°	121.7	127.0	131.0	133.3	129.0	123.7	116.5	111.5	106.0	101.0	97.1
71°	118.2	123.3	127.7	129.9	125.8	120.3	113.3	108.0	102.7	97.5	93.7
71.5°	114.9	120.1	123.8	126.5	122.1	116.9	109.7	104.8	99.3	94.3	90.5
72°	111.5	116.5	120.7	122.9	118.7	113.4	106.4	101.4	96.2	90.9	87.2
72.5°	108.1	113.3	117.2	119.7	115.3	110.1	102.9	98.3	92.6	87.8	84.1
73°	104.6	109.7	113.8	116.1	111.9	106.4	99.6	94.7	89.7	84.6	80.9
73.5°	101.4	106.5	110.3	112.7	108.6	103.2	96.3	91.6	86.4	81.4	77.8
74°	98.0	102.9	106.8	109.2	105.0	99.9	93.1	88.3	83.3	78.3	74.6
74.5°	94.7	99.8	103.6	105.9	101.8	96.5	89.8	85.1	80.1	75.2	71.3
75°	91.4	96.2	100.1	102.5	98.4	93.2	86.6	81.9	76.8	71.9	68.4
75.5°	88.2	93.1	96.8	99.4	95.0	90.0	83.5	78.8	73.7	68.9	65.2
76°	84.9	89.7	93.5	95.7	91.7	86.7	80.3	75.6	70.6	65.8	62.3
76.5°	81.7	86.5	90.1	92.5	88.3	83.6	77.2	72.6	67.6	62.9	59.4
77°	78.5	83.1	86.8	89.1	85.1	80.3	74.0	69.4	64.6	59.9	56.6
77.5°	75.3	80.0	83.5	85.9	81.8	77.2	70.7	66.5	61.7	57.2	53.7
78°	72.2	76.7	80.4	82.6	78.7	73.9	67.8	63.4	58.7	54.1	50.9
78.5°	69.2	73.7	77.1	79.4	75.4	70.7	64.6	60.5	55.9	51.5	48.2
79°	66.1	70.5	74.0	76.1	72.3	67.8	61.7	57.6	53.1	48.8	45.6
79.5°	63.1	67.5	70.7	73.0	69.2	64.6	58.7	54.8	50.5	46.2	43.0
80°	60.2	64.5	67.8	69.8	66.0	61.7	55.9	52.0	47.8	43.5	40.6
80.5°	57.3	61.4	64.6	66.7	63.0	58.6	53.0	49.3	45.2	41.0	38.0
81°	54.3	58.6	61.6	63.6	60.1	55.9	50.3	46.6	42.6	38.6	35.7
81.5°	51.8	55.6	58.8	60.6	57.2	52.9	47.6	44.0	40.2	36.2	33.4
82°	48.9	52.9	55.9	57.8	54.3	50.1	45.0	41.5	37.7	34.0	31.2
82.5°	46.4	50.0	53.0	54.7	51.5	47.4	42.5	39.1	35.5	31.8	29.0
83°	43.7	47.5	50.1	52.1	48.7	44.8	40.0	36.7	33.3	29.7	27.0
83.5°	41.3	44.8	47.5	49.3	46.0	42.3	37.6	34.4	31.1	27.6	25.1
84°	38.7	42.2	44.8	46.6	43.3	39.7	35.3	32.2	29.0	25.7	23.2
84.5°	36.5	39.6	42.2	43.8	40.8	37.4	32.9	30.1	27.1	23.7	21.4
85°	34.3	37.4	39.7	41.4	38.3	35.0	30.7	28.0	25.1	22.0	19.7
85.5°	32.3	35.5	37.3	38.8	35.9	32.7	28.6	26.1	23.2	20.3	18.1
86°	30.2	33.2	35.4	36.5	33.5	30.5	26.6	24.2	21.5	18.8	16.6
86.5°	28.0	31.0	33.1	34.2	31.3	28.4	24.6	22.4	19.8	17.1	15.2
87°	26.0	28.7	30.9	32.1	29.3	26.3	22.8	20.6	18.2	15.7	13.9
87.5°	24.1	26.5	28.6	30.0	27.1	24.5	21.1	19.0	16.7	14.4	12.5
88°	22.2	24.6	26.4	27.8	25.2	22.5	19.4	17.4	15.2	13.0	11.3
88.5°	20.5	22.7	24.5	25.7	23.2	20.8	17.8	15.9	13.9	11.8	10.3
89°	18.9	20.9	22.6	23.7	21.4	19.1	16.3	14.6	12.6	10.7	9.4
89.5°	17.2	19.2	20.8	21.9	19.8	17.5	14.9	13.2	11.4	9.7	8.6

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



TEST NUMBER: P855579  
CATALOG NUMBER: HLCE6129FS1EWH-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P855579  
 CATALOG NUMBER: HLCE6129FS1EWH-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	423.7	423.7	423.7	423.7	423.7	423.7
0.5°	423.3	424.4	424.2	424.2	423.7	423.1
1°	423.2	423.5	423.5	423.6	423.1	423.6
1.5°	422.6	423.3	423.9	423.8	423.5	423.1
2°	422.7	423.3	423.4	423.7	423.1	423.9
2.5°	421.9	422.4	423.1	423.5	423.5	422.9
3°	421.5	422.7	422.7	423.1	422.6	423.6
3.5°	420.8	421.9	422.4	423.0	423.0	422.8
4°	420.1	421.1	421.9	422.6	422.5	423.1
4.5°	420.0	420.9	421.2	422.2	422.7	422.6
5°	419.0	420.2	421.0	421.3	421.4	422.9
5.5°	418.5	420.3	420.2	421.2	421.8	421.6
6°	417.6	418.7	420.4	420.7	420.8	422.1
6.5°	417.3	418.3	418.9	420.2	421.0	421.2
7°	416.1	417.9	418.9	419.6	419.9	421.2
7.5°	415.5	416.6	417.6	418.6	419.8	420.0
8°	414.3	416.6	417.7	418.5	419.0	420.1
8.5°	414.0	415.3	416.1	417.4	418.8	419.1
9°	412.6	414.3	415.9	417.1	417.9	418.7
9.5°	412.2	413.4	414.6	416.0	417.5	418.1
10°	410.6	412.6	413.9	415.6	416.2	417.5
10.5°	409.7	412.0	412.8	414.3	416.1	416.5
11°	408.8	410.1	412.1	413.6	414.4	416.1
11.5°	407.6	409.9	411.0	412.8	414.2	415.2
12°	406.4	408.4	409.8	412.2	413.1	414.0
12.5°	405.0	407.5	409.2	410.4	412.4	413.5
13°	404.3	406.0	407.9	409.8	410.9	412.6
13.5°	402.4	404.6	407.0	408.6	410.5	411.8
14°	401.7	403.8	405.3	407.9	409.3	410.5
14.5°	399.7	402.2	404.4	406.2	408.4	409.8
15°	399.2	401.2	403.0	405.3	406.9	408.6
15.5°	397.3	399.5	402.4	403.8	406.1	407.5
16°	396.3	398.1	400.1	403.1	404.6	406.4
16.5°	394.2	396.9	399.4	401.5	403.9	405.4
17°	393.0	395.0	397.5	400.6	402.1	404.0
17.5°	391.4	394.4	396.7	398.8	401.0	403.2
18°	389.8	392.1	394.3	397.6	399.5	401.3
18.5°	388.3	391.0	393.4	395.8	398.6	400.4
19°	386.5	389.0	391.7	394.8	396.6	398.9
19.5°	385.3	387.7	390.2	393.0	395.7	397.6
20°	383.0	385.6	388.2	391.8	393.8	395.7
20.5°	382.0	384.0	386.8	390.0	392.8	394.8
21°	379.6	382.8	385.3	388.5	390.6	393.1
21.5°	378.0	380.4	383.0	386.6	389.7	391.7
22°	375.7	379.1	381.9	385.1	387.6	389.8

TEST NUMBER: P855579  
 CATALOG NUMBER: HLCE6129FS1EWH-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	374.6	377.1	379.7	383.3	386.2	388.6
23°	371.9	375.1	378.4	381.7	384.3	386.6
23.5°	370.5	373.2	376.0	379.9	383.0	385.4
24°	368.5	371.4	374.9	378.0	381.0	383.3
24.5°	366.4	369.9	372.4	376.0	379.6	381.7
25°	364.6	367.3	371.1	374.5	377.1	380.0
25.5°	362.5	365.4	368.6	372.3	375.9	378.3
26°	360.4	363.8	366.9	370.6	373.5	376.3
26.5°	358.3	360.9	364.8	368.5	372.3	374.5
27°	356.3	359.5	362.8	366.5	369.6	372.6
27.5°	353.7	357.1	360.6	364.7	368.1	370.9
28°	352.1	354.8	358.7	362.4	365.9	368.3
28.5°	349.4	353.1	356.7	360.6	364.2	367.1
29°	347.7	350.6	354.1	358.2	361.6	364.7
29.5°	344.6	348.7	352.4	356.8	360.1	362.7
30°	343.1	345.7	350.0	354.0	357.7	360.5
30.5°	340.4	344.0	347.9	352.2	355.8	358.8
31°	338.2	341.7	345.2	349.7	353.2	356.3
31.5°	335.5	338.9	343.4	347.9	351.4	354.5
32°	333.4	337.1	341.0	344.9	349.0	351.8
32.5°	331.0	334.1	338.6	343.5	347.1	350.0
33°	328.4	331.9	336.1	340.5	344.4	347.7
33.5°	326.4	329.5	333.8	338.7	342.4	345.5
34°	323.3	327.0	331.6	335.5	339.9	342.9
34.5°	321.2	324.9	328.9	334.0	337.6	340.8
35°	318.6	321.9	326.7	330.8	334.9	338.6
35.5°	315.8	319.8	323.7	328.9	333.0	336.1
36°	313.2	317.0	321.5	326.0	330.2	333.5
36.5°	310.6	314.4	318.6	323.7	328.2	331.4
37°	308.3	311.9	316.2	321.3	325.1	328.9
37.5°	305.3	309.1	313.5	318.6	323.1	326.5
38°	303.1	306.7	311.1	316.1	320.0	323.7
38.5°	299.9	303.9	308.3	313.3	317.7	321.6
39°	297.3	301.0	305.7	311.3	314.8	318.8
39.5°	294.7	298.6	303.3	308.1	312.6	316.6
40°	291.9	295.4	300.3	305.8	309.8	313.5
40.5°	289.0	293.2	297.7	302.8	307.3	311.2
41°	286.1	290.0	295.0	300.5	304.3	308.4
41.5°	283.6	287.6	292.4	297.3	302.0	305.9
42°	280.5	284.2	289.0	295.2	299.0	302.7
42.5°	277.9	281.6	286.8	292.0	296.5	300.6
43°	274.6	279.1	283.4	289.5	293.4	297.6
43.5°	272.0	275.8	281.1	286.2	290.9	295.1
44°	268.9	273.1	277.7	283.9	287.9	291.8
44.5°	266.2	270.2	275.2	280.5	285.4	289.4

TEST NUMBER: P855579  
 CATALOG NUMBER: HLCE6129FS1EWH-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	262.9	267.0	272.0	278.1	282.1	286.6
45.5°	259.9	264.3	269.2	274.8	279.7	283.5
46°	257.1	261.1	266.2	272.0	276.5	280.7
46.5°	254.1	258.5	263.2	269.1	274.1	277.9
47°	251.1	255.0	260.6	266.3	270.5	275.0
47.5°	248.0	252.2	257.2	263.2	268.0	272.2
48°	245.1	249.4	254.5	260.3	264.8	268.9
48.5°	241.7	245.8	251.2	257.5	261.9	266.4
49°	239.0	243.1	248.5	254.2	258.7	263.1
49.5°	235.5	239.9	245.0	251.2	256.0	260.3
50°	232.7	236.8	242.2	248.3	252.7	256.9
50.5°	229.3	233.6	239.0	245.2	250.0	254.4
51°	226.4	230.4	235.9	241.8	246.2	251.0
51.5°	222.8	227.6	232.5	239.1	243.6	248.2
52°	219.7	223.8	229.5	235.6	240.2	244.7
52.5°	216.5	221.2	226.5	232.8	237.5	242.0
53°	213.3	217.7	223.0	229.1	233.9	238.7
53.5°	210.2	214.4	219.9	226.7	231.1	235.7
54°	206.8	211.2	216.7	222.8	227.7	232.3
54.5°	203.7	207.9	213.4	220.2	224.5	229.3
55°	200.2	204.9	210.1	216.5	221.1	226.0
55.5°	197.3	201.4	207.0	213.6	218.2	223.0
56°	193.7	198.3	203.5	210.1	214.9	219.6
56.5°	190.5	195.0	200.3	207.1	211.6	216.7
57°	186.9	191.4	196.8	203.5	208.3	213.2
57.5°	183.9	188.4	193.5	200.3	204.9	210.2
58°	180.1	184.8	190.4	197.0	201.6	206.5
58.5°	177.0	181.6	186.8	193.7	198.4	203.4
59°	173.5	178.1	183.7	190.3	194.9	200.2
59.5°	170.0	174.9	180.1	187.0	191.6	196.8
60°	166.7	171.4	177.0	183.8	188.1	193.4
60.5°	163.3	167.9	173.4	180.2	185.1	190.1
61°	160.0	164.6	170.2	177.0	181.4	186.8
61.5°	156.4	161.1	166.5	173.5	178.2	183.3
62°	153.2	158.0	163.4	170.1	174.9	180.0
62.5°	149.4	154.3	159.6	166.6	171.4	176.6
63°	146.4	150.8	156.6	163.4	168.0	173.4
63.5°	142.7	147.7	153.0	159.8	164.7	169.7
64°	139.2	143.9	149.6	156.6	161.1	166.4
64.5°	135.8	140.7	146.1	152.9	157.8	162.9
65°	132.3	137.3	142.6	149.6	154.3	159.6
65.5°	128.9	133.6	139.2	146.2	150.8	156.1
66°	125.4	130.4	135.7	142.7	147.7	152.9
66.5°	122.0	126.8	132.4	139.1	144.0	149.1
67°	118.5	123.4	128.8	135.8	140.7	146.0

TEST NUMBER: P855579  
 CATALOG NUMBER: HLCE6129FS1EWH-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	115.3	120.0	125.5	132.4	137.0	142.3
68°	111.7	116.5	121.9	128.9	133.7	139.0
68.5°	108.4	113.2	118.6	125.4	130.2	135.4
69°	104.9	109.7	115.1	122.0	126.9	132.1
69.5°	101.7	106.4	111.9	118.6	123.3	128.5
70°	98.4	103.0	108.1	115.1	120.0	125.3
70.5°	95.0	99.5	104.9	111.9	116.4	121.7
71°	91.6	96.3	101.6	108.3	113.0	118.2
71.5°	88.4	93.0	98.3	105.1	109.8	114.9
72°	85.2	89.7	94.8	101.6	106.2	111.5
72.5°	81.9	86.3	91.5	98.5	103.0	108.1
73°	78.8	83.1	88.3	95.0	99.6	104.6
73.5°	75.5	80.0	84.9	91.7	96.3	101.4
74°	72.6	76.6	81.8	88.3	92.9	98.0
74.5°	69.4	73.6	78.5	85.2	89.8	94.7
75°	66.4	70.5	75.4	81.8	86.3	91.4
75.5°	63.3	67.4	72.2	78.8	83.3	88.2
76°	60.3	64.4	69.2	75.5	80.0	84.9
76.5°	57.5	61.4	66.1	72.5	76.8	81.7
77°	54.5	58.5	63.1	69.4	73.7	78.5
77.5°	51.8	55.5	60.1	66.2	70.6	75.3
78°	49.0	52.8	57.3	63.4	67.6	72.2
78.5°	46.4	50.0	54.4	60.3	64.4	69.2
79°	43.8	47.3	51.7	57.6	61.7	66.1
79.5°	41.3	44.6	48.9	54.5	58.7	63.1
80°	38.7	42.1	46.2	51.9	55.9	60.2
80.5°	36.4	39.6	43.6	49.1	53.0	57.3
81°	34.0	37.2	41.2	46.5	50.2	54.3
81.5°	31.8	34.8	38.6	43.9	47.6	51.8
82°	29.7	32.6	36.2	41.4	45.0	48.9
82.5°	27.5	30.8	34.1	38.8	42.4	46.4
83°	25.6	28.7	32.0	36.6	40.0	43.7
83.5°	23.6	26.7	29.9	34.4	37.6	41.3
84°	21.9	24.7	27.8	32.3	35.1	38.7
84.5°	20.1	22.6	25.7	30.3	33.0	36.5
85°	18.4	20.8	23.7	28.1	31.0	34.3
85.5°	16.9	19.2	22.0	26.0	28.9	32.3
86°	15.5	17.5	20.3	24.2	26.9	30.2
86.5°	14.1	16.0	18.7	22.2	25.0	28.0
87°	12.7	14.6	17.0	20.6	23.1	26.0
87.5°	11.5	13.2	15.6	18.9	21.3	24.1
88°	10.4	11.9	14.2	17.3	19.7	22.2
88.5°	9.5	10.8	12.8	15.8	18.0	20.5
89°	8.6	9.7	11.6	14.5	16.5	18.9
89.5°	7.7	8.7	10.5	13.1	15.1	17.2

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



TEST NUMBER: P855579  
CATALOG NUMBER: HLCE6129FS1EWH-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)