

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: P855582

Luminaire Tested: **HLCE6129FS1EWH-5000K**

Issue Date: 7/16/2024

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P855582  
 Test Lab:  
 Issue Date: 7/16/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: HLCE6129FS1EWH-5000K  
 Description: 6IN 1200LM, 90CRI, DIMMING TO 10%, DAMP LOCATION  
 Light Source: SELECTABLE CCT 90CRI / 5000K CCT  
 Ballast/Driver: -

**Summary**

Lumens per Lamp: 1223.3 (1 lamp)  
 Luminaire Lumens: 1260.0 lumens  
 Efficiency: 103.0%  
 Efficacy: 85.1 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

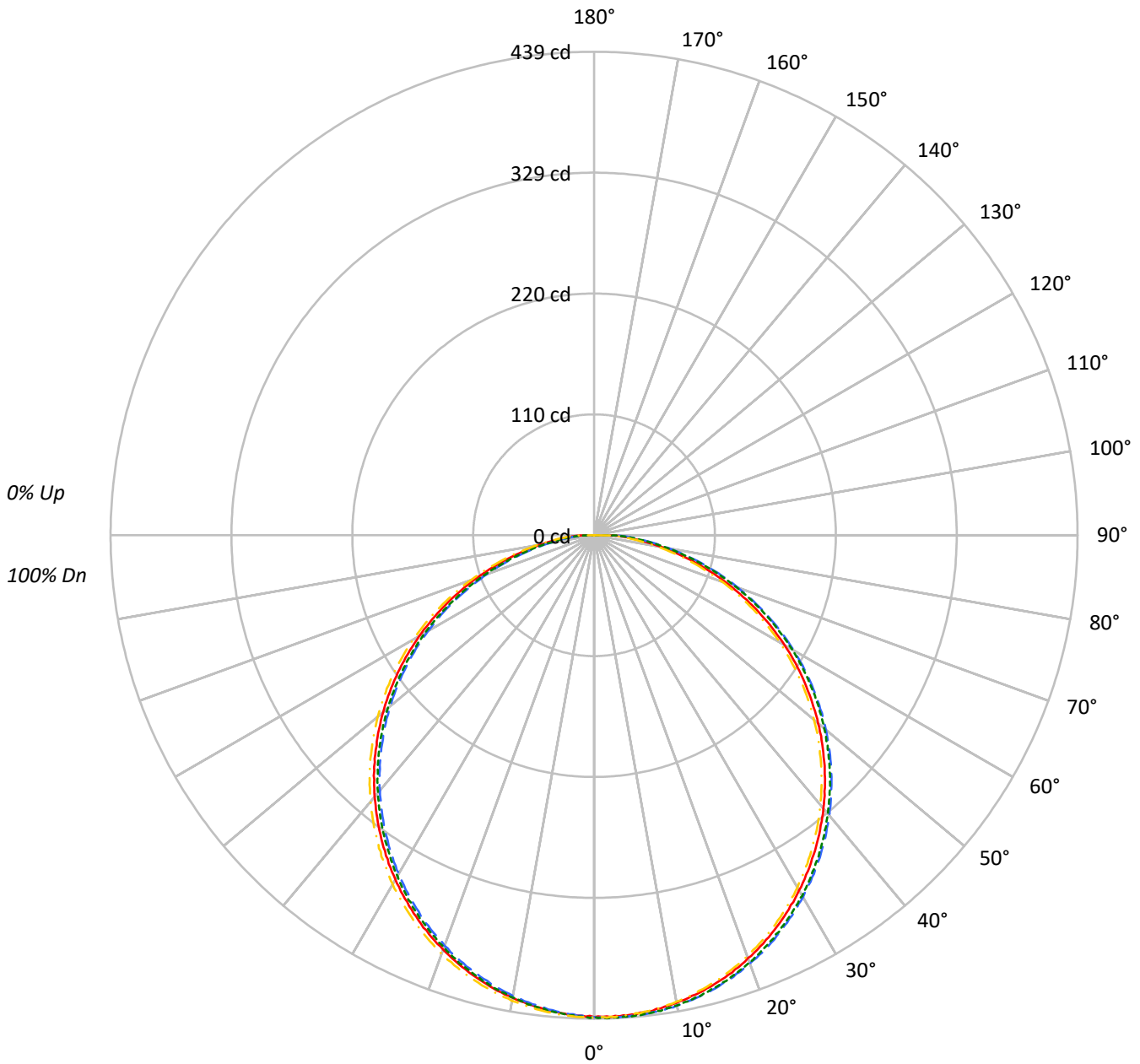
Input Watts (W): 14.8  
 Input Voltage (V): NR  
 Input Current (Ain): NR  
 Voltage Rise (V): NR  
 Power Factor: NR  
 Total Harmonic Distortion (THDi): NR  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 25 FT



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
RCR																				
0	123	123	123	123	120	120	120	120	114	114	114	110	110	110	105	105	105	103		
1	112	106	102	98	109	104	100	96	100	96	93	96	93	90	92	90	88	85		
2	101	93	85	79	99	91	84	78	87	81	76	83	79	75	80	76	73	71		
3	92	81	73	66	90	79	72	65	76	70	64	74	68	63	71	66	62	59		
4	84	72	63	56	82	70	62	55	68	60	54	65	59	54	63	58	53	51		
5	78	64	55	48	75	63	54	48	61	53	47	59	52	46	57	51	46	44		
6	72	58	48	42	70	57	48	41	55	47	41	53	46	41	51	45	40	38		
7	66	52	43	37	65	51	43	37	50	42	36	48	41	36	47	41	36	34		
8	62	48	39	33	60	47	39	33	46	38	32	44	37	32	43	37	32	30		
9	58	44	35	29	56	43	35	29	42	34	29	41	34	29	40	34	29	27		
10	54	40	32	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24		

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

	0°	90°	180°	270°
0°	23989	23989	23989	23989
5°	24031	24086	23883	23883
10°	24003	24137	23736	23719
15°	23950	24126	23570	23513
20°	23837	24076	23359	23230
25°	23735	24032	23106	22949
30°	23567	23934	22839	22605
35°	23403	23791	22533	22245
40°	23172	23630	22177	21834
45°	22948	23452	21777	21382
50°	22635	23249	21313	20852
55°	22307	23024	20788	20224
60°	21906	22783	20097	19417
65°	21377	22402	19198	18394
70°	20741	21943	18144	17054
75°	19995	21520	16818	15420
80°	19636	21531	15595	13733
85°	22329	24908	16291	13523

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	41.4	3.3	3.4
10°-20°	118.3	9.4	9.7
20°-30°	178.7	14.2	14.6
30°-40°	215.0	17.1	17.6
40°-50°	222.8	17.7	18.2
50°-60°	201.8	16.0	16.5
60°-70°	155.1	12.3	12.7
70°-80°	92.3	7.3	7.5
80°-90°	34.4	2.7	2.8
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°	338.4	26.9	27.7
0°-40°	553.4	43.9	45.2
0°-60°	978.1	77.6	80.0
0°-90°	1260.0	100.0	103.0
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°	1260.0	100.0	103.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	438	438	438	438	438	
5°	437	438	434	434	437	41
15°	422	425	415	414	422	119
25°	392	397	382	379	392	181
35°	350	356	337	332	350	219
45°	296	302	281	276	296	228
55°	233	241	218	212	233	209
65°	165	173	148	142	165	163
75°	94	102	79	73	94	100
85°	36	40	26	22	36	40
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	437.6	437.6	437.6	437.6	437.6	437.6	437.6	437.6	437.6	437.6	437.6
0.5°	436.9	437.5	438.0	437.4	438.4	438.7	438.1	437.6	436.5	437.1	437.1
1°	437.5	438.1	437.5	438.2	438.2	438.1	437.4	436.6	437.1	437.2	436.9
1.5°	436.9	437.5	438.3	437.9	438.8	438.8	438.2	437.2	436.4	436.9	436.4
2°	437.8	437.9	437.7	438.5	438.6	438.1	437.4	436.7	436.5	436.3	436.6
2.5°	436.7	437.7	438.0	438.0	438.2	438.6	438.0	436.7	435.7	436.4	435.4
3°	437.5	437.9	438.1	438.1	438.6	437.8	436.8	435.9	436.2	435.2	435.5
3.5°	436.6	437.5	437.9	438.1	438.0	438.6	437.4	436.3	435.2	435.7	434.6
4°	436.9	437.5	438.2	438.0	438.3	437.8	436.5	435.6	434.9	434.7	434.2
4.5°	436.4	437.5	437.6	437.8	438.1	437.8	436.9	435.4	434.3	434.5	433.8
5°	436.7	436.9	438.1	438.0	437.7	437.1	435.7	434.6	434.0	433.3	432.8
5.5°	435.5	437.2	437.3	437.8	437.9	437.4	436.2	434.5	433.3	433.5	432.7
6°	435.9	436.1	437.5	437.4	437.1	436.6	435.1	433.8	432.9	432.4	431.3
6.5°	435.1	436.3	436.9	437.6	437.1	436.2	434.9	433.4	431.9	431.7	431.4
7°	435.1	435.8	436.1	436.7	436.7	435.7	433.9	432.5	431.5	431.2	429.7
7.5°	433.8	435.9	436.5	436.8	435.8	435.2	434.1	432.0	430.6	429.9	429.5
8°	433.9	434.5	435.7	436.0	436.1	434.8	433.1	431.2	430.2	429.7	428.2
8.5°	432.8	434.9	435.6	436.0	434.8	433.9	432.4	430.8	428.9	428.5	427.8
9°	432.4	433.7	434.4	434.9	434.7	433.9	431.6	429.5	428.4	428.2	426.3
9.5°	431.8	433.7	434.7	434.9	433.7	432.7	431.3	429.3	427.6	426.4	425.5
10°	431.2	432.6	433.3	434.0	433.6	432.8	430.1	428.2	426.4	426.0	424.7
10.5°	430.1	432.1	433.5	433.9	432.9	431.3	429.5	427.4	425.4	424.5	423.4
11°	429.8	431.3	432.3	432.7	431.9	431.2	428.1	426.2	424.8	423.9	422.5
11.5°	428.8	430.6	431.6	432.3	431.7	429.7	427.8	425.6	423.5	422.7	421.2
12°	427.6	429.9	431.2	431.6	430.6	429.3	426.7	424.6	422.7	421.5	420.2
12.5°	427.1	428.7	430.2	430.6	429.5	427.7	425.9	423.6	421.5	420.5	418.8
13°	426.1	428.2	429.6	430.0	429.2	427.7	424.5	422.1	420.3	418.9	417.8
13.5°	425.3	427.1	428.1	428.8	427.8	426.3	423.7	421.4	419.1	418.2	416.0
14°	424.0	426.7	428.1	428.2	427.3	425.2	422.7	420.2	417.9	416.4	415.1
14.5°	423.3	424.9	426.6	427.6	425.7	424.3	421.3	418.9	416.6	415.7	413.8
15°	422.0	424.7	426.0	426.6	425.1	423.4	420.2	417.8	415.3	413.8	412.0
15.5°	420.8	423.1	424.8	425.1	424.2	422.3	419.3	416.1	414.1	413.1	411.1
16°	419.7	422.3	423.4	424.6	422.6	420.5	417.9	415.6	412.8	410.7	409.2
16.5°	418.7	420.9	422.7	423.1	422.1	420.2	416.5	414.0	411.2	410.3	408.2
17°	417.3	419.8	421.5	422.6	420.6	418.5	415.4	412.5	409.9	408.0	406.2
17.5°	416.4	418.3	420.5	420.7	419.2	417.4	413.9	410.7	408.4	406.8	405.2
18°	414.4	417.6	418.5	420.1	418.4	415.7	412.3	410.1	406.7	404.8	402.9
18.5°	413.6	416.1	418.0	418.5	416.6	414.8	411.2	407.9	405.4	403.7	401.7
19°	412.0	414.1	416.4	417.7	415.6	413.1	409.7	406.9	403.8	401.8	400.2
19.5°	410.6	413.6	415.2	415.8	414.0	411.8	408.3	404.7	402.1	400.3	398.0
20°	408.6	411.8	413.7	414.8	412.7	410.6	406.6	403.8	400.4	398.4	396.8
20.5°	407.8	410.7	412.3	413.1	411.6	408.8	405.1	401.5	398.6	396.4	394.3
21°	406.0	408.6	411.3	412.2	409.7	407.6	403.3	400.6	397.2	395.5	393.1
21.5°	404.5	407.9	409.4	410.3	408.5	405.4	402.2	398.3	395.6	393.1	390.9
22°	402.6	405.6	408.5	408.5	406.7	404.4	400.3	396.9	393.7	391.5	389.1

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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°	401.4	404.6	406.2	407.4	405.2	402.5	398.5	395.2	391.8	389.4	387.3
23°	399.3	402.4	405.2	405.6	403.8	401.4	396.8	393.2	389.5	387.6	385.2
23.5°	398.0	401.1	403.4	404.3	401.9	398.9	395.1	391.3	388.6	385.7	383.8
24°	395.9	399.2	401.9	402.5	400.7	397.8	393.5	389.8	386.1	383.8	381.1
24.5°	394.2	397.6	399.9	401.4	398.1	395.7	391.4	387.5	384.4	381.9	379.8
25°	392.4	395.7	398.2	398.9	397.3	393.8	389.9	385.7	382.0	379.4	376.9
25.5°	390.7	393.8	396.8	397.9	394.9	392.0	387.6	383.6	380.5	378.0	375.2
26°	388.6	392.3	394.3	395.6	393.2	390.2	386.0	382.2	377.9	375.4	372.9
26.5°	386.7	390.2	393.2	393.7	391.5	388.3	383.7	379.6	376.5	373.7	370.8
27°	384.8	388.2	390.8	392.1	389.6	386.0	381.9	378.0	373.5	370.9	368.7
27.5°	383.1	386.4	389.4	390.2	387.8	384.7	379.5	375.4	372.0	369.1	366.3
28°	380.4	384.7	387.2	388.4	385.7	382.2	378.0	374.1	369.7	366.9	364.5
28.5°	379.2	382.1	385.7	386.1	383.6	380.3	375.3	371.3	367.8	364.7	361.8
29°	376.6	380.8	382.8	384.7	382.1	377.9	373.8	369.7	365.1	362.2	359.7
29.5°	374.6	378.0	381.3	382.1	379.2	376.5	371.3	366.5	363.2	360.0	357.4
30°	372.3	376.6	379.4	380.7	378.1	373.9	369.5	365.2	360.8	357.9	354.5
30.5°	370.5	374.1	377.1	378.0	375.5	371.8	366.5	362.7	358.6	355.3	352.9
31°	368.0	372.5	375.4	376.6	373.6	369.5	365.1	360.5	356.3	353.3	350.0
31.5°	366.1	369.5	372.6	373.8	371.1	367.4	362.3	357.8	353.9	350.4	348.0
32°	363.4	367.8	370.9	372.2	369.2	365.4	360.4	356.0	351.9	348.5	344.9
32.5°	361.5	365.3	368.4	369.4	366.9	362.9	357.5	353.4	348.8	345.7	343.2
33°	359.1	363.6	366.7	367.4	364.3	360.7	355.8	351.2	347.1	343.5	340.1
33.5°	356.8	360.5	363.9	365.4	362.7	358.1	352.8	348.2	343.9	340.5	338.0
34°	354.1	358.5	361.7	363.1	359.8	356.4	350.8	346.4	341.8	338.3	334.9
34.5°	352.0	356.0	359.4	360.4	357.4	353.4	347.9	343.5	339.2	335.5	332.6
35°	349.7	353.6	357.2	358.1	355.5	351.4	346.0	341.7	336.7	333.5	330.2
35.5°	347.2	351.5	354.7	356.2	352.7	348.7	343.1	338.5	333.9	330.3	327.2
36°	344.4	348.7	352.0	353.3	350.5	346.1	340.8	336.4	331.6	328.0	324.8
36.5°	342.3	346.3	350.0	351.5	348.0	343.8	337.9	333.5	328.7	325.3	321.7
37°	339.7	343.9	347.4	348.4	345.5	341.5	335.8	331.4	326.2	322.5	319.5
37.5°	337.2	341.6	345.2	346.5	343.2	338.9	333.2	328.0	323.5	319.9	316.5
38°	334.3	338.5	342.4	343.7	340.3	336.0	330.5	326.3	320.8	317.2	313.9
38.5°	332.1	336.6	339.6	341.8	338.4	334.0	327.7	322.9	318.2	314.4	310.8
39°	329.3	333.5	337.3	338.4	335.2	331.1	325.3	320.6	315.3	311.6	308.0
39.5°	326.9	331.4	334.4	336.1	332.8	328.6	322.3	317.2	312.5	308.8	305.7
40°	323.8	328.1	332.5	333.4	330.2	325.5	319.6	315.3	309.9	305.8	302.4
40.5°	321.4	326.1	329.2	331.2	327.4	323.6	316.7	312.0	307.2	303.6	300.0
41°	318.5	322.9	326.9	328.0	324.9	320.1	314.2	309.6	304.3	300.3	296.6
41.5°	315.9	320.4	324.0	325.4	322.1	318.0	311.3	306.2	301.5	297.7	293.9
42°	312.6	317.4	321.3	322.9	319.6	314.6	308.5	304.2	298.3	294.4	291.2
42.5°	310.4	314.7	318.8	319.9	316.5	312.4	305.8	300.6	296.2	291.7	287.9
43°	307.4	312.0	315.7	317.6	314.1	309.3	302.7	298.3	292.6	288.7	285.3
43.5°	304.7	309.3	313.2	314.3	311.2	306.3	300.1	294.7	290.2	285.7	281.9
44°	301.4	306.3	310.2	312.0	308.2	303.4	296.9	292.5	286.6	282.7	279.4
44.5°	298.8	303.2	307.6	308.8	305.8	300.5	294.3	289.2	284.4	279.6	276.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	296.0	300.6	304.6	306.6	302.5	298.1	291.2	286.6	280.9	276.9	273.2
45.5°	292.8	297.5	301.6	302.9	299.9	294.7	288.6	282.9	278.2	273.5	269.9
46°	289.9	294.6	299.1	300.4	296.8	292.2	285.1	280.5	274.5	270.8	266.6
46.5°	287.1	291.7	295.8	297.5	293.7	288.7	282.5	277.3	272.1	267.2	264.0
47°	284.0	288.8	292.9	294.5	291.2	286.2	279.5	274.4	268.8	264.8	260.6
47.5°	281.2	285.7	290.0	291.7	287.8	282.7	276.4	270.9	265.9	261.3	257.7
48°	277.7	282.8	286.7	288.4	285.4	280.3	273.2	268.5	262.5	258.2	254.2
48.5°	275.2	279.6	283.9	285.6	281.6	276.8	270.3	264.8	259.4	254.7	251.6
49°	271.7	276.9	280.7	282.4	279.2	273.7	267.2	262.2	256.5	252.1	247.9
49.5°	268.8	273.5	278.0	279.9	275.9	270.8	263.9	258.6	253.3	248.4	244.9
50°	265.4	270.8	274.5	276.3	272.6	267.7	260.6	255.9	249.9	245.6	241.6
50.5°	262.7	267.3	271.8	273.7	269.9	264.6	257.7	252.4	246.8	242.2	238.2
51°	259.3	264.5	268.5	270.3	266.7	261.1	254.3	249.5	243.8	238.9	235.4
51.5°	256.3	261.2	265.3	267.5	263.7	258.5	251.3	245.9	240.3	235.8	231.8
52°	252.7	258.2	262.5	264.1	260.2	254.9	248.0	243.2	237.4	232.4	228.7
52.5°	249.9	254.6	258.8	261.1	257.4	251.9	244.8	239.6	233.7	229.2	225.1
53°	246.5	251.9	256.1	257.9	254.1	248.6	241.7	236.4	230.8	225.8	222.2
53.5°	243.5	248.3	252.6	254.7	250.6	245.3	238.2	232.8	227.2	222.7	218.5
54°	239.9	245.3	249.6	251.5	247.8	242.3	235.2	230.1	224.3	219.3	215.4
54.5°	236.8	241.8	246.0	248.2	244.2	238.9	231.8	226.4	220.5	216.0	211.8
55°	233.4	238.7	242.8	244.9	240.9	235.7	228.5	223.4	217.5	212.3	208.4
55.5°	230.3	235.5	239.8	241.7	237.8	232.2	224.9	219.6	213.9	209.4	205.3
56°	226.8	232.2	236.2	238.6	234.5	228.9	221.8	216.6	210.8	205.6	201.8
56.5°	223.8	228.7	233.2	234.9	231.4	225.6	218.5	212.9	207.1	202.5	198.5
57°	220.2	225.4	229.7	232.0	227.7	222.2	214.9	209.9	204.0	198.8	194.8
57.5°	217.1	222.1	226.3	228.5	224.6	218.9	211.6	206.2	200.4	195.7	191.7
58°	213.3	218.6	223.1	225.3	221.2	215.4	208.4	203.3	197.2	192.0	188.2
58.5°	210.1	215.4	219.5	221.6	217.9	212.2	204.8	199.4	193.5	188.7	184.5
59°	206.7	211.8	216.4	218.5	214.7	208.8	201.6	196.3	190.3	184.8	181.2
59.5°	203.3	208.8	212.5	215.2	211.1	205.6	198.0	192.4	186.7	181.8	177.5
60°	199.8	205.1	209.5	211.9	207.8	201.5	194.6	189.4	183.3	178.1	174.3
60.5°	196.3	202.0	205.9	208.4	204.3	198.6	191.2	185.6	179.7	174.7	170.5
61°	192.9	198.0	202.4	204.8	200.8	195.1	187.9	182.4	176.5	171.1	167.1
61.5°	189.3	194.9	199.3	201.5	197.4	191.8	184.2	178.6	172.8	167.7	163.5
62°	185.9	191.2	195.4	197.9	193.7	187.9	180.6	175.4	169.2	164.1	160.0
62.5°	182.4	188.1	192.2	194.6	190.3	184.6	177.2	171.6	166.0	160.4	156.7
63°	179.1	184.2	188.6	190.7	186.6	181.1	173.7	168.2	162.1	157.3	152.9
63.5°	175.3	181.1	185.3	187.6	183.4	177.6	169.9	164.5	158.9	153.4	149.6
64°	171.9	177.3	181.7	184.0	179.7	174.2	166.7	161.4	155.3	150.1	145.8
64.5°	168.2	173.9	177.9	180.6	176.2	170.5	162.9	157.6	151.9	146.4	142.4
65°	164.8	170.0	174.6	176.7	172.7	167.1	159.6	154.1	148.0	143.1	138.7
65.5°	161.3	166.7	170.8	173.5	169.1	163.5	155.8	150.4	144.8	139.2	135.2
66°	157.9	163.2	167.6	169.8	165.8	160.0	152.5	147.1	141.1	135.8	131.8
66.5°	154.0	159.7	163.9	166.3	162.1	156.1	148.8	143.5	137.7	132.2	128.1
67°	150.7	156.0	160.2	162.9	158.5	153.1	145.4	139.9	134.0	128.6	124.6



TEST NUMBER: P855582  
 CATALOG NUMBER: HLCE6129FS1EWH-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	146.9	152.5	156.8	159.2	155.1	149.2	141.7	136.3	130.5	125.1	121.1
68°	143.6	148.9	153.2	155.7	151.3	145.8	138.4	132.9	127.1	121.7	117.6
68.5°	139.8	145.5	149.8	152.1	147.9	142.0	134.6	129.3	123.5	118.1	114.1
69°	136.4	141.7	145.9	148.7	144.0	138.7	131.2	125.7	119.9	114.6	110.4
69.5°	132.7	138.3	142.4	144.9	140.5	134.8	127.5	122.2	116.4	111.2	107.3
70°	129.4	134.6	138.9	141.5	136.9	131.5	124.1	118.7	113.2	107.6	103.7
70.5°	125.7	131.2	135.3	137.7	133.3	127.8	120.3	115.2	109.5	104.3	100.3
71°	122.1	127.4	131.9	134.2	129.9	124.2	117.1	111.6	106.1	100.7	96.7
71.5°	118.6	124.0	127.9	130.6	126.1	120.7	113.3	108.2	102.5	97.4	93.5
72°	115.2	120.3	124.6	126.9	122.6	117.2	109.9	104.7	99.4	93.9	90.1
72.5°	111.7	117.1	121.1	123.6	119.1	113.7	106.3	101.5	95.7	90.6	86.8
73°	108.0	113.3	117.6	119.9	115.6	109.9	102.8	97.8	92.6	87.4	83.6
73.5°	104.7	110.0	113.9	116.4	112.2	106.6	99.5	94.6	89.3	84.1	80.3
74°	101.3	106.3	110.3	112.7	108.4	103.2	96.1	91.2	86.0	80.8	77.1
74.5°	97.8	103.1	106.9	109.4	105.2	99.7	92.7	87.9	82.7	77.7	73.7
75°	94.4	99.4	103.4	105.9	101.6	96.2	89.5	84.6	79.4	74.2	70.6
75.5°	91.1	96.1	100.0	102.6	98.1	92.9	86.2	81.4	76.1	71.2	67.4
76°	87.7	92.6	96.5	98.8	94.7	89.6	82.9	78.1	72.9	68.0	64.3
76.5°	84.4	89.4	93.1	95.6	91.2	86.3	79.7	74.9	69.8	64.9	61.4
77°	81.1	85.8	89.7	92.0	87.9	82.9	76.4	71.7	66.7	61.9	58.4
77.5°	77.8	82.6	86.2	88.7	84.5	79.7	73.1	68.6	63.7	59.1	55.5
78°	74.5	79.3	83.1	85.3	81.3	76.3	70.0	65.5	60.6	55.9	52.5
78.5°	71.5	76.1	79.6	82.0	77.9	73.1	66.7	62.5	57.7	53.2	49.8
79°	68.3	72.8	76.4	78.6	74.6	70.0	63.7	59.5	54.8	50.4	47.1
79.5°	65.2	69.7	73.1	75.4	71.5	66.7	60.6	56.6	52.1	47.7	44.4
80°	62.2	66.6	70.0	72.1	68.2	63.7	57.7	53.7	49.4	44.9	41.9
80.5°	59.2	63.4	66.7	68.8	65.1	60.5	54.7	50.9	46.6	42.3	39.3
81°	56.1	60.5	63.6	65.7	62.1	57.7	52.0	48.1	44.0	39.9	36.8
81.5°	53.5	57.5	60.7	62.6	59.1	54.6	49.2	45.5	41.5	37.4	34.5
82°	50.5	54.6	57.7	59.7	56.1	51.8	46.5	42.8	38.9	35.2	32.2
82.5°	47.9	51.7	54.7	56.5	53.2	48.9	43.9	40.4	36.6	32.8	30.0
83°	45.2	49.1	51.8	53.8	50.3	46.3	41.3	37.9	34.4	30.6	27.9
83.5°	42.6	46.3	49.1	50.9	47.5	43.7	38.8	35.6	32.1	28.5	25.9
84°	40.0	43.6	46.3	48.1	44.7	41.1	36.4	33.3	30.0	26.5	24.0
84.5°	37.7	40.9	43.6	45.3	42.1	38.6	34.0	31.1	28.0	24.5	22.1
85°	35.5	38.6	41.1	42.7	39.6	36.1	31.7	28.9	25.9	22.7	20.3
85.5°	33.4	36.6	38.5	40.1	37.1	33.8	29.6	26.9	24.0	20.9	18.7
86°	31.2	34.3	36.5	37.7	34.6	31.5	27.5	24.9	22.2	19.4	17.2
86.5°	28.9	32.0	34.2	35.4	32.3	29.4	25.4	23.2	20.4	17.7	15.7
87°	26.8	29.7	31.9	33.2	30.2	27.2	23.6	21.3	18.8	16.2	14.3
87.5°	24.8	27.4	29.6	30.9	28.0	25.3	21.8	19.6	17.3	14.8	12.9
88°	22.9	25.4	27.3	28.7	26.0	23.3	20.0	18.0	15.7	13.5	11.7
88.5°	21.2	23.5	25.3	26.5	24.0	21.5	18.4	16.4	14.3	12.2	10.6
89°	19.5	21.6	23.4	24.5	22.1	19.7	16.8	15.1	13.1	11.1	9.7
89.5°	17.8	19.8	21.5	22.6	20.4	18.1	15.4	13.7	11.8	10.0	8.8

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



TEST NUMBER: P855582  
CATALOG NUMBER: HLCE6129FS1EWH-5000K

**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: P855582  
 CATALOG NUMBER: HLCE6129FS1EWH-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	437.6	437.6	437.6	437.6	437.6	437.6
0.5°	437.2	438.3	438.1	438.1	437.6	436.9
1°	437.1	437.4	437.4	437.5	436.9	437.5
1.5°	436.4	437.2	437.8	437.7	437.4	436.9
2°	436.5	437.2	437.3	437.6	436.9	437.8
2.5°	435.7	436.2	436.9	437.4	437.4	436.7
3°	435.4	436.5	436.5	436.9	436.4	437.5
3.5°	434.6	435.7	436.2	436.8	436.8	436.6
4°	433.9	434.9	435.7	436.4	436.3	436.9
4.5°	433.8	434.7	435.1	436.0	436.5	436.4
5°	432.7	434.0	434.8	435.2	435.3	436.7
5.5°	432.2	434.1	434.0	435.1	435.6	435.5
6°	431.3	432.4	434.2	434.5	434.6	435.9
6.5°	430.9	432.0	432.6	434.0	434.8	435.1
7°	429.8	431.6	432.6	433.4	433.7	435.1
7.5°	429.2	430.2	431.3	432.3	433.6	433.8
8°	427.9	430.2	431.4	432.2	432.7	433.9
8.5°	427.6	428.9	429.8	431.1	432.5	432.8
9°	426.1	427.9	429.6	430.7	431.6	432.4
9.5°	425.7	426.9	428.2	429.7	431.2	431.8
10°	424.1	426.1	427.5	429.3	429.9	431.2
10.5°	423.2	425.5	426.3	427.9	429.8	430.1
11°	422.2	423.6	425.6	427.2	428.0	429.8
11.5°	420.9	423.4	424.5	426.3	427.8	428.8
12°	419.7	421.8	423.3	425.7	426.6	427.6
12.5°	418.3	420.8	422.6	423.9	425.9	427.1
13°	417.6	419.3	421.3	423.3	424.4	426.1
13.5°	415.6	417.9	420.3	422.0	424.0	425.3
14°	414.8	417.1	418.6	421.3	422.7	424.0
14.5°	412.8	415.4	417.7	419.5	421.8	423.3
15°	412.3	414.3	416.2	418.6	420.2	422.0
15.5°	410.3	412.6	415.6	417.1	419.4	420.8
16°	409.3	411.2	413.3	416.3	417.9	419.7
16.5°	407.2	409.9	412.5	414.6	417.2	418.7
17°	405.9	408.0	410.5	413.7	415.3	417.3
17.5°	404.2	407.4	409.7	411.9	414.1	416.4
18°	402.6	404.9	407.3	410.6	412.6	414.4
18.5°	401.1	403.8	406.3	408.7	411.7	413.6
19°	399.2	401.8	404.5	407.8	409.6	412.0
19.5°	397.9	400.4	402.9	405.9	408.6	410.6
20°	395.6	398.2	400.9	404.6	406.7	408.6
20.5°	394.5	396.6	399.5	402.7	405.7	407.8
21°	392.0	395.4	397.9	401.3	403.4	406.0
21.5°	390.4	392.8	395.6	399.3	402.5	404.5
22°	388.0	391.6	394.4	397.7	400.3	402.6

TEST NUMBER: P855582  
 CATALOG NUMBER: HLCE6129FS1EWH-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	386.8	389.5	392.1	395.9	398.8	401.4
23°	384.1	387.4	390.8	394.2	396.9	399.3
23.5°	382.6	385.5	388.3	392.3	395.6	398.0
24°	380.6	383.6	387.2	390.4	393.5	395.9
24.5°	378.4	382.0	384.6	388.3	392.0	394.2
25°	376.5	379.4	383.3	386.7	389.5	392.4
25.5°	374.4	377.4	380.7	384.5	388.2	390.7
26°	372.2	375.7	378.9	382.7	385.8	388.6
26.5°	370.0	372.7	376.7	380.6	384.5	386.7
27°	368.0	371.3	374.7	378.5	381.7	384.8
27.5°	365.3	368.8	372.4	376.6	380.2	383.1
28°	363.7	366.4	370.4	374.3	377.9	380.4
28.5°	360.8	364.6	368.4	372.4	376.1	379.2
29°	359.1	362.1	365.7	369.9	373.5	376.6
29.5°	355.9	360.1	364.0	368.5	371.9	374.6
30°	354.3	357.1	361.5	365.6	369.5	372.3
30.5°	351.6	355.3	359.3	363.8	367.5	370.5
31°	349.3	352.9	356.5	361.2	364.7	368.0
31.5°	346.5	350.0	354.6	359.3	362.9	366.1
32°	344.3	348.1	352.2	356.2	360.4	363.4
32.5°	341.9	345.1	349.7	354.7	358.5	361.5
33°	339.2	342.7	347.2	351.7	355.7	359.1
33.5°	337.1	340.3	344.7	349.8	353.6	356.8
34°	333.9	337.7	342.4	346.5	351.1	354.1
34.5°	331.7	335.6	339.7	344.9	348.6	352.0
35°	329.1	332.4	337.4	341.7	345.9	349.7
35.5°	326.1	330.3	334.3	339.7	343.9	347.2
36°	323.5	327.4	332.0	336.7	341.1	344.4
36.5°	320.7	324.7	329.1	334.3	338.9	342.3
37°	318.4	322.1	326.5	331.8	335.8	339.7
37.5°	315.3	319.3	323.8	329.1	333.7	337.2
38°	313.1	316.7	321.3	326.4	330.5	334.3
38.5°	309.7	313.9	318.4	323.6	328.1	332.1
39°	307.1	310.8	315.7	321.5	325.2	329.3
39.5°	304.3	308.4	313.3	318.2	322.8	326.9
40°	301.5	305.1	310.1	315.8	320.0	323.8
40.5°	298.5	302.8	307.5	312.7	317.4	321.4
41°	295.5	299.5	304.6	310.3	314.3	318.5
41.5°	292.9	297.1	302.0	307.1	311.9	315.9
42°	289.7	293.5	298.5	304.8	308.8	312.6
42.5°	287.1	290.8	296.2	301.6	306.2	310.4
43°	283.6	288.2	292.7	298.9	303.1	307.4
43.5°	280.9	284.8	290.3	295.6	300.4	304.7
44°	277.7	282.1	286.8	293.2	297.4	301.4
44.5°	274.9	279.1	284.2	289.7	294.7	298.8

TEST NUMBER: P855582  
 CATALOG NUMBER: HLCE6129FS1EWH-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	271.5	275.8	280.9	287.3	291.4	296.0
45.5°	268.4	272.9	278.0	283.8	288.8	292.8
46°	265.6	269.7	274.9	280.9	285.6	289.9
46.5°	262.4	266.9	271.8	277.9	283.1	287.1
47°	259.4	263.4	269.2	275.1	279.4	284.0
47.5°	256.1	260.4	265.7	271.8	276.7	281.2
48°	253.2	257.6	262.8	268.8	273.5	277.7
48.5°	249.6	253.9	259.5	265.9	270.5	275.2
49°	246.8	251.1	256.6	262.5	267.2	271.7
49.5°	243.3	247.8	253.1	259.5	264.4	268.8
50°	240.3	244.5	250.1	256.4	260.9	265.4
50.5°	236.8	241.3	246.8	253.3	258.2	262.7
51°	233.8	238.0	243.7	249.7	254.3	259.3
51.5°	230.1	235.1	240.1	246.9	251.6	256.3
52°	226.9	231.2	237.1	243.4	248.1	252.7
52.5°	223.6	228.4	233.9	240.4	245.3	249.9
53°	220.3	224.8	230.3	236.6	241.6	246.5
53.5°	217.1	221.5	227.2	234.1	238.6	243.5
54°	213.6	218.1	223.8	230.1	235.2	239.9
54.5°	210.4	214.7	220.4	227.4	231.9	236.8
55°	206.7	211.6	216.9	223.6	228.3	233.4
55.5°	203.8	208.0	213.8	220.6	225.4	230.3
56°	200.0	204.8	210.2	216.9	221.9	226.8
56.5°	196.7	201.4	206.8	213.9	218.5	223.8
57°	193.1	197.7	203.3	210.2	215.2	220.2
57.5°	189.9	194.5	199.9	206.8	211.6	217.1
58°	186.0	190.8	196.6	203.5	208.2	213.3
58.5°	182.8	187.6	192.9	200.0	204.9	210.1
59°	179.2	183.9	189.7	196.5	201.3	206.7
59.5°	175.6	180.6	186.0	193.2	197.9	203.3
60°	172.2	177.1	182.8	189.8	194.3	199.8
60.5°	168.6	173.4	179.1	186.1	191.2	196.3
61°	165.3	170.0	175.8	182.8	187.4	192.9
61.5°	161.6	166.4	172.0	179.2	184.0	189.3
62°	158.2	163.2	168.7	175.7	180.6	185.9
62.5°	154.3	159.4	164.8	172.1	177.1	182.4
63°	151.2	155.8	161.7	168.7	173.5	179.1
63.5°	147.4	152.5	158.0	165.1	170.1	175.3
64°	143.8	148.6	154.5	161.7	166.4	171.9
64.5°	140.2	145.3	150.8	157.9	162.9	168.2
65°	136.6	141.8	147.3	154.5	159.4	164.8
65.5°	133.2	138.0	143.8	150.9	155.8	161.3
66°	129.5	134.6	140.1	147.4	152.5	157.9
66.5°	126.0	130.9	136.7	143.7	148.7	154.0
67°	122.4	127.5	133.1	140.2	145.3	150.7

TEST NUMBER: P855582  
 CATALOG NUMBER: HLCE6129FS1EWH-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	119.1	123.9	129.6	136.7	141.5	146.9
68°	115.4	120.3	125.9	133.2	138.1	143.6
68.5°	112.0	116.9	122.5	129.5	134.4	139.8
69°	108.3	113.3	118.8	126.0	131.1	136.4
69.5°	105.1	109.9	115.6	122.5	127.4	132.7
70°	101.6	106.4	111.7	118.8	123.9	129.4
70.5°	98.1	102.7	108.3	115.6	120.2	125.7
71°	94.6	99.5	104.9	111.9	116.7	122.1
71.5°	91.3	96.0	101.5	108.5	113.4	118.6
72°	88.0	92.6	97.9	104.9	109.7	115.2
72.5°	84.6	89.2	94.5	101.7	106.4	111.7
73°	81.4	85.8	91.2	98.1	102.8	108.0
73.5°	78.0	82.6	87.7	94.7	99.5	104.7
74°	74.9	79.2	84.5	91.2	95.9	101.3
74.5°	71.7	76.0	81.1	88.0	92.7	97.8
75°	68.5	72.8	77.9	84.5	89.2	94.4
75.5°	65.4	69.6	74.5	81.4	86.0	91.1
76°	62.3	66.5	71.5	78.0	82.6	87.7
76.5°	59.4	63.4	68.3	74.8	79.4	84.4
77°	56.3	60.4	65.2	71.7	76.1	81.1
77.5°	53.5	57.4	62.1	68.4	72.9	77.8
78°	50.6	54.5	59.2	65.5	69.8	74.5
78.5°	47.9	51.7	56.2	62.3	66.5	71.5
79°	45.3	48.8	53.4	59.5	63.7	68.3
79.5°	42.6	46.1	50.5	56.3	60.6	65.2
80°	40.0	43.5	47.7	53.6	57.7	62.2
80.5°	37.6	40.9	45.1	50.7	54.7	59.2
81°	35.2	38.4	42.5	48.0	51.9	56.1
81.5°	32.8	35.9	39.9	45.4	49.2	53.5
82°	30.6	33.7	37.4	42.7	46.5	50.5
82.5°	28.4	31.8	35.3	40.1	43.8	47.9
83°	26.4	29.7	33.1	37.8	41.3	45.2
83.5°	24.4	27.6	30.8	35.6	38.8	42.6
84°	22.6	25.5	28.7	33.4	36.2	40.0
84.5°	20.7	23.4	26.5	31.3	34.1	37.7
85°	19.1	21.5	24.5	29.1	32.0	35.5
85.5°	17.5	19.8	22.7	26.8	29.9	33.4
86°	16.0	18.1	20.9	24.9	27.8	31.2
86.5°	14.5	16.5	19.3	22.9	25.8	28.9
87°	13.2	15.1	17.6	21.3	23.9	26.8
87.5°	11.9	13.7	16.1	19.5	22.0	24.8
88°	10.7	12.3	14.6	17.9	20.3	22.9
88.5°	9.8	11.2	13.3	16.3	18.6	21.2
89°	8.8	10.0	12.0	14.9	17.1	19.5
89.5°	8.0	8.9	10.8	13.6	15.6	17.8

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



TEST NUMBER: P855582  
CATALOG NUMBER: HLCE6129FS1EWH-5000K

**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)