

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: P855581

Luminaire Tested: **HLCE6129FS1EWH-4000K**

Issue Date: 7/16/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P855581
 Test Lab:
 Issue Date: 7/16/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: HLCE6129FS1EWH-4000K
 Description: 6IN 1200LM, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 4000K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: 1223.3 (1 lamp)
 Luminaire Lumens: 1280.0 lumens
 Efficiency: 104.6%
 Efficacy: 85.9 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

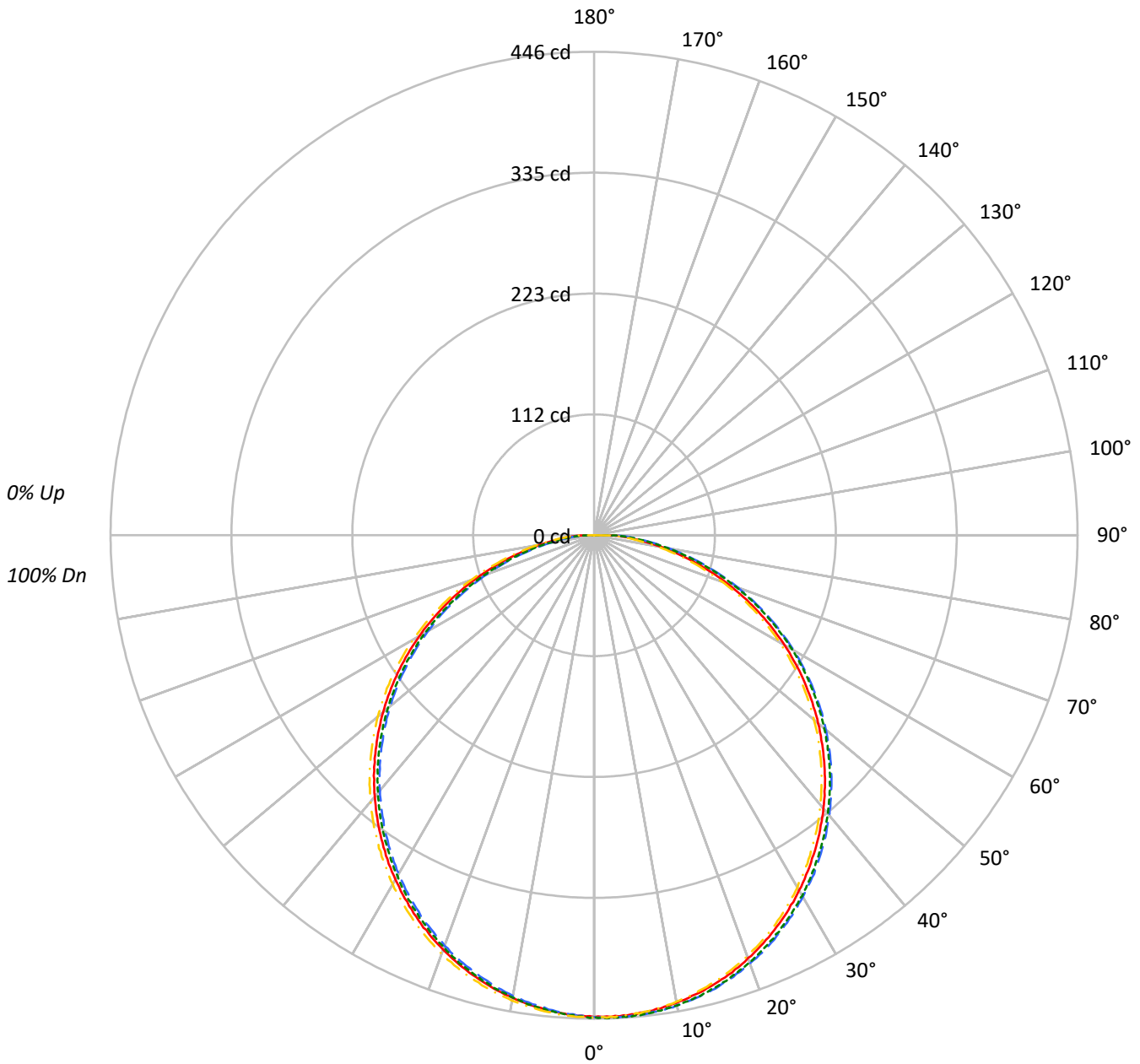
Input Watts (W): 14.9
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



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	0		
RCR																										
0	125	125	125	125	122	122	122	122	116	116	116	111	111	111	107	107	107	105								
1	113	108	103	99	110	106	101	98	101	98	95	97	94	92	93	91	89	87								
2	103	94	87	81	100	92	85	80	88	83	78	85	80	76	82	78	74	72								
3	94	82	74	67	91	81	73	66	78	71	65	75	69	64	72	67	63	60								
4	86	73	64	56	83	72	63	56	69	61	55	66	60	54	64	58	54	51								
5	79	65	56	49	77	64	55	48	62	54	48	60	53	47	58	52	47	44								
6	73	59	49	42	71	58	49	42	56	48	42	54	47	41	52	46	41	39								
7	67	53	44	37	66	52	43	37	51	43	37	49	42	37	48	41	36	34								
8	63	48	39	33	61	48	39	33	46	39	33	45	38	33	44	37	33	31								
9	59	44	36	30	57	44	36	30	43	35	30	41	35	30	40	34	29	27								
10	55	41	33	27	54	40	32	27	39	32	27	38	32	27	38	31	27	25								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	24368	24368	24368	24368
5°	24417	24466	24263	24263
10°	24382	24521	24114	24098
15°	24330	24506	23945	23888
20°	24216	24461	23732	23598
25°	24110	24413	23475	23312
30°	23940	24314	23206	22959
35°	23771	24166	22894	22600
40°	23537	24009	22528	22177
45°	23312	23824	22126	21723
50°	22993	23624	21654	21185
55°	22661	23397	21113	20539
60°	22257	23145	20415	19724
65°	21727	22765	19496	18679
70°	21061	22295	18433	17327
75°	20312	21859	17072	15674
80°	19952	21878	15848	13954
85°	22644	25285	16542	13712

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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	42.0	3.3	3.4
10°-20°	120.2	9.4	9.8
20°-30°	181.6	14.2	14.8
30°-40°	218.4	17.1	17.9
40°-50°	226.4	17.7	18.5
50°-60°	205.1	16.0	16.8
60°-70°	157.6	12.3	12.9
70°-80°	93.8	7.3	7.7
80°-90°	35.0	2.7	2.9
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°	343.8	26.9	28.1
0°-40°	562.2	43.9	46.0
0°-60°	993.6	77.6	81.2
0°-90°	1280.0	100.0	104.6
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°	1280.0	100.0	104.6

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	444	444	444	444	444	
5°	444	445	441	441	444	42
15°	429	432	422	421	429	121
25°	399	404	388	385	399	184
35°	355	361	342	338	355	222
45°	301	307	285	280	301	232
55°	237	245	221	215	237	212
65°	168	176	150	144	168	166
75°	96	103	81	74	96	102
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°	444.5	444.5	444.5	444.5	444.5	444.5	444.5	444.5	444.5	444.5	444.5
0.5°	443.9	444.4	445.0	444.3	445.4	445.7	445.1	444.5	443.5	444.0	444.0
1°	444.4	445.1	444.4	445.2	445.2	445.1	444.3	443.6	444.0	444.1	443.9
1.5°	443.9	444.4	445.3	444.8	445.8	445.8	445.2	444.1	443.3	443.9	443.3
2°	444.7	444.8	444.6	445.5	445.6	445.1	444.3	443.7	443.5	443.2	443.6
2.5°	443.7	444.6	445.0	445.0	445.2	445.6	445.0	443.7	442.6	443.3	442.3
3°	444.4	444.8	445.1	445.1	445.6	444.7	443.8	442.8	443.1	442.1	442.4
3.5°	443.6	444.4	444.8	445.1	445.0	445.6	444.3	443.2	442.1	442.6	441.5
4°	443.9	444.4	445.2	445.0	445.3	444.7	443.5	442.5	441.9	441.6	441.1
4.5°	443.3	444.4	444.5	444.7	445.1	444.7	443.9	442.3	441.2	441.4	440.7
5°	443.7	443.9	445.1	445.0	444.6	444.0	442.6	441.5	440.9	440.1	439.7
5.5°	442.4	444.1	444.2	444.7	444.8	444.3	443.1	441.4	440.1	440.4	439.6
6°	442.8	443.0	444.4	444.3	444.0	443.6	442.0	440.7	439.8	439.3	438.1
6.5°	442.0	443.2	443.9	444.5	444.0	443.1	441.9	440.2	438.7	438.5	438.2
7°	442.0	442.7	443.0	443.7	443.7	442.6	440.8	439.4	438.3	438.0	436.5
7.5°	440.7	442.8	443.5	443.8	442.7	442.1	441.0	438.9	437.5	436.7	436.3
8°	440.8	441.4	442.6	442.9	443.0	441.7	439.9	438.0	437.0	436.5	435.0
8.5°	439.7	441.9	442.5	442.9	441.7	440.8	439.3	437.7	435.8	435.3	434.6
9°	439.3	440.6	441.3	441.9	441.6	440.8	438.4	436.3	435.2	435.0	433.1
9.5°	438.6	440.6	441.6	441.9	440.6	439.6	438.1	436.1	434.4	433.2	432.2
10°	438.0	439.5	440.1	440.9	440.5	439.7	436.9	435.0	433.2	432.8	431.5
10.5°	436.9	439.0	440.4	440.8	439.8	438.1	436.3	434.2	432.1	431.3	430.1
11°	436.6	438.1	439.2	439.6	438.7	438.0	434.9	433.0	431.6	430.6	429.2
11.5°	435.6	437.5	438.4	439.2	438.5	436.5	434.6	432.3	430.2	429.4	427.8
12°	434.4	436.7	438.0	438.4	437.5	436.1	433.5	431.4	429.4	428.2	426.9
12.5°	433.8	435.5	437.0	437.5	436.3	434.5	432.7	430.3	428.2	427.2	425.5
13°	432.9	435.0	436.4	436.8	436.0	434.5	431.3	428.8	427.0	425.6	424.4
13.5°	432.0	433.8	434.9	435.6	434.6	433.1	430.4	428.1	425.7	424.8	422.6
14°	430.7	433.5	434.9	435.0	434.0	431.9	429.4	426.9	424.5	423.0	421.6
14.5°	430.0	431.7	433.4	434.4	432.4	431.1	427.9	425.6	423.2	422.3	420.4
15°	428.7	431.5	432.8	433.4	431.8	430.1	426.9	424.4	421.9	420.4	418.5
15.5°	427.5	429.8	431.6	431.8	430.9	429.0	425.9	422.7	420.7	419.6	417.6
16°	426.3	429.0	430.1	431.4	429.3	427.2	424.5	422.2	419.4	417.3	415.7
16.5°	425.4	427.6	429.4	429.8	428.8	426.9	423.1	420.6	417.7	416.8	414.7
17°	423.9	426.5	428.2	429.3	427.3	425.2	422.0	419.1	416.4	414.5	412.7
17.5°	423.0	425.0	427.2	427.4	425.8	424.0	420.5	417.3	414.9	413.3	411.6
18°	421.0	424.2	425.2	426.8	425.1	422.3	418.9	416.6	413.2	411.3	409.3
18.5°	420.1	422.7	424.6	425.2	423.2	421.4	417.7	414.4	411.8	410.1	408.1
19°	418.5	420.7	423.0	424.3	422.2	419.6	416.2	413.4	410.2	408.2	406.6
19.5°	417.1	420.1	421.7	422.4	420.6	418.3	414.8	411.2	408.5	406.7	404.3
20°	415.1	418.3	420.3	421.4	419.3	417.1	413.1	410.2	406.8	404.7	403.1
20.5°	414.3	417.3	418.9	419.6	418.1	415.3	411.5	407.8	405.0	402.7	400.6
21°	412.4	415.1	417.8	418.8	416.2	414.0	409.7	407.0	403.5	401.8	399.3
21.5°	410.9	414.4	415.9	416.8	415.0	411.8	408.6	404.6	401.9	399.3	397.2
22°	409.0	412.0	415.0	415.0	413.2	410.8	406.7	403.2	399.9	397.7	395.2

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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°	407.7	411.1	412.7	413.8	411.6	408.9	404.9	401.4	398.0	395.5	393.4
23°	405.6	408.8	411.6	412.0	410.2	407.7	403.1	399.4	395.7	393.7	391.3
23.5°	404.3	407.4	409.8	410.7	408.3	405.3	401.3	397.5	394.8	391.8	389.9
24°	402.2	405.5	408.3	408.9	407.1	404.1	399.7	396.0	392.2	389.9	387.1
24.5°	400.5	403.9	406.2	407.7	404.4	402.0	397.6	393.6	390.5	388.0	385.8
25°	398.6	402.0	404.5	405.3	403.6	400.0	396.1	391.8	388.1	385.4	382.9
25.5°	396.9	400.0	403.1	404.2	401.2	398.2	393.7	389.7	386.6	384.0	381.1
26°	394.8	398.5	400.6	401.9	399.4	396.4	392.1	388.3	383.9	381.3	378.9
26.5°	392.9	396.4	399.4	399.9	397.7	394.5	389.8	385.6	382.5	379.6	376.7
27°	391.0	394.4	397.0	398.3	395.8	392.1	388.0	384.0	379.4	376.8	374.6
27.5°	389.1	392.6	395.5	396.4	393.9	390.8	385.5	381.3	377.9	374.9	372.1
28°	386.5	390.8	393.3	394.6	391.8	388.3	384.0	380.0	375.6	372.8	370.3
28.5°	385.2	388.2	391.8	392.2	389.7	386.4	381.2	377.2	373.6	370.5	367.5
29°	382.6	386.9	388.9	390.8	388.2	383.9	379.7	375.6	370.8	368.0	365.4
29.5°	380.6	384.0	387.3	388.2	385.2	382.5	377.2	372.3	368.9	365.7	363.0
30°	378.2	382.6	385.4	386.8	384.1	379.8	375.3	371.0	366.6	363.6	360.2
30.5°	376.4	380.0	383.0	384.0	381.4	377.7	372.3	368.5	364.3	360.9	358.5
31°	373.8	378.4	381.3	382.6	379.5	375.3	370.8	366.2	362.0	358.9	355.6
31.5°	371.9	375.3	378.5	379.7	376.9	373.2	368.1	363.5	359.5	356.0	353.5
32°	369.1	373.6	376.8	378.1	375.0	371.2	366.1	361.7	357.5	354.1	350.4
32.5°	367.2	371.1	374.3	375.2	372.8	368.7	363.1	359.0	354.4	351.2	348.6
33°	364.8	369.3	372.6	373.2	370.1	366.5	361.4	356.7	352.6	348.9	345.5
33.5°	362.5	366.2	369.7	371.2	368.5	363.8	358.4	353.7	349.4	345.9	343.4
34°	359.7	364.2	367.4	368.8	365.5	362.1	356.4	351.9	347.2	343.7	340.3
34.5°	357.6	361.7	365.1	366.1	363.0	359.0	353.4	348.9	344.5	340.8	337.9
35°	355.2	359.2	362.8	363.8	361.1	356.9	351.5	347.1	342.1	338.8	335.5
35.5°	352.7	357.1	360.4	361.9	358.3	354.3	348.5	343.9	339.2	335.6	332.4
36°	349.9	354.3	357.6	358.9	356.1	351.6	346.3	341.8	336.8	333.2	330.0
36.5°	347.7	351.8	355.6	357.1	353.5	349.2	343.3	338.8	334.0	330.4	326.8
37°	345.1	349.4	352.9	354.0	351.0	346.9	341.1	336.6	331.4	327.6	324.5
37.5°	342.5	347.0	350.6	352.0	348.6	344.3	338.4	333.2	328.6	325.0	321.6
38°	339.6	343.9	347.9	349.1	345.7	341.3	335.8	331.5	325.9	322.2	318.9
38.5°	337.4	342.0	345.0	347.2	343.8	339.3	332.9	328.1	323.3	319.4	315.8
39°	334.5	338.8	342.6	343.8	340.5	336.3	330.4	325.7	320.3	316.5	312.9
39.5°	332.1	336.6	339.7	341.4	338.1	333.8	327.4	322.2	317.5	313.7	310.5
40°	328.9	333.3	337.8	338.7	335.5	330.6	324.7	320.3	314.8	310.6	307.2
40.5°	326.5	331.3	334.4	336.4	332.6	328.7	321.8	317.0	312.0	308.4	304.8
41°	323.6	328.1	332.1	333.2	330.1	325.2	319.2	314.5	309.1	305.1	301.3
41.5°	320.9	325.5	329.1	330.5	327.2	323.0	316.2	311.1	306.3	302.4	298.6
42°	317.6	322.4	326.4	328.1	324.7	319.6	313.4	309.0	303.1	299.1	295.8
42.5°	315.3	319.7	323.9	325.0	321.6	317.4	310.6	305.4	300.9	296.3	292.5
43°	312.2	317.0	320.7	322.6	319.1	314.2	307.5	303.1	297.3	293.3	289.8
43.5°	309.6	314.2	318.1	319.3	316.1	311.2	304.9	299.4	294.8	290.2	286.4
44°	306.2	311.2	315.1	317.0	313.1	308.2	301.7	297.2	291.2	287.2	283.8
44.5°	303.6	308.0	312.5	313.7	310.6	305.3	299.0	293.7	288.9	284.0	280.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	300.7	305.4	309.5	311.5	307.3	302.8	295.8	291.2	285.4	281.3	277.5
45.5°	297.5	302.2	306.4	307.8	304.7	299.4	293.2	287.4	282.6	277.8	274.2
46°	294.5	299.3	303.8	305.2	301.6	296.8	289.6	285.0	278.9	275.1	270.9
46.5°	291.6	296.3	300.5	302.2	298.3	293.3	287.0	281.7	276.4	271.4	268.2
47°	288.5	293.4	297.6	299.2	295.8	290.8	283.9	278.8	273.1	269.0	264.8
47.5°	285.6	290.2	294.6	296.3	292.4	287.2	280.8	275.2	270.1	265.4	261.8
48°	282.1	287.3	291.3	293.0	289.9	284.8	277.5	272.8	266.7	262.3	258.2
48.5°	279.5	284.0	288.4	290.1	286.0	281.2	274.6	269.0	263.5	258.8	255.6
49°	276.0	281.3	285.2	286.9	283.6	278.0	271.4	266.4	260.6	256.1	251.8
49.5°	273.1	277.8	282.4	284.3	280.3	275.1	268.1	262.7	257.3	252.4	248.8
50°	269.6	275.1	278.9	280.7	277.0	271.9	264.8	260.0	253.9	249.5	245.4
50.5°	266.9	271.5	276.1	278.0	274.2	268.8	261.8	256.4	250.8	246.1	242.0
51°	263.4	268.7	272.8	274.6	271.0	265.2	258.4	253.4	247.7	242.7	239.1
51.5°	260.4	265.3	269.5	271.7	267.9	262.6	255.3	249.8	244.1	239.5	235.5
52°	256.7	262.3	266.7	268.3	264.3	259.0	251.9	247.0	241.1	236.1	232.4
52.5°	253.9	258.7	263.0	265.2	261.5	255.9	248.7	243.4	237.4	232.8	228.6
53°	250.4	255.9	260.2	262.0	258.1	252.6	245.5	240.2	234.5	229.4	225.7
53.5°	247.3	252.3	256.6	258.8	254.6	249.2	242.0	236.5	230.8	226.3	222.0
54°	243.7	249.2	253.5	255.5	251.7	246.2	238.9	233.8	227.9	222.7	218.8
54.5°	240.6	245.6	249.9	252.2	248.1	242.7	235.5	230.0	224.0	219.4	215.2
55°	237.1	242.5	246.7	248.8	244.8	239.4	232.2	226.9	220.9	215.7	211.7
55.5°	234.0	239.2	243.6	245.5	241.6	235.9	228.5	223.1	217.3	212.7	208.5
56°	230.4	235.9	240.0	242.4	238.2	232.6	225.3	220.1	214.2	208.8	205.0
56.5°	227.3	232.4	236.9	238.7	235.0	229.2	222.0	216.3	210.3	205.7	201.7
57°	223.7	228.9	233.3	235.7	231.3	225.7	218.4	213.2	207.2	202.0	197.9
57.5°	220.5	225.6	229.9	232.2	228.2	222.4	214.9	209.5	203.6	198.8	194.7
58°	216.6	222.1	226.6	228.8	224.7	218.8	211.7	206.5	200.3	195.0	191.2
58.5°	213.4	218.8	223.0	225.1	221.4	215.6	208.1	202.5	196.5	191.7	187.5
59°	210.0	215.2	219.9	222.0	218.1	212.2	204.8	199.4	193.3	187.8	184.0
59.5°	206.5	212.2	215.9	218.6	214.4	208.8	201.1	195.5	189.7	184.7	180.3
60°	203.0	208.3	212.8	215.3	211.1	204.7	197.7	192.4	186.2	180.9	177.1
60.5°	199.4	205.2	209.2	211.7	207.6	201.8	194.2	188.5	182.5	177.5	173.2
61°	196.0	201.1	205.6	208.1	204.0	198.1	190.9	185.3	179.3	173.8	169.7
61.5°	192.3	198.0	202.4	204.7	200.5	194.8	187.1	181.5	175.6	170.3	166.1
62°	188.8	194.2	198.5	201.0	196.8	190.9	183.5	178.2	171.8	166.7	162.5
62.5°	185.3	191.1	195.3	197.7	193.3	187.6	180.0	174.3	168.6	163.0	159.2
63°	181.9	187.1	191.6	193.8	189.6	183.9	176.4	170.9	164.7	159.8	155.4
63.5°	178.0	183.9	188.2	190.6	186.3	180.4	172.6	167.1	161.5	155.8	152.0
64°	174.6	180.1	184.6	186.9	182.5	177.0	169.4	163.9	157.7	152.5	148.1
64.5°	170.9	176.7	180.7	183.5	179.0	173.2	165.5	160.1	154.3	148.7	144.7
65°	167.5	172.7	177.4	179.5	175.5	169.7	162.1	156.6	150.3	145.3	140.9
65.5°	163.8	169.4	173.6	176.2	171.7	166.1	158.3	152.8	147.1	141.4	137.3
66°	160.4	165.7	170.2	172.5	168.4	162.5	154.9	149.4	143.3	137.9	133.9
66.5°	156.4	162.2	166.5	169.0	164.7	158.6	151.2	145.8	139.9	134.3	130.1
67°	153.1	158.5	162.8	165.5	161.0	155.5	147.7	142.1	136.1	130.7	126.6

TEST NUMBER: P855581
 CATALOG NUMBER: HLCE6129FS1EWH-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	149.3	154.9	159.3	161.7	157.5	151.5	143.9	138.5	132.6	127.0	123.0
68°	145.9	151.3	155.6	158.2	153.7	148.1	140.6	135.1	129.1	123.6	119.4
68.5°	142.0	147.8	152.2	154.5	150.2	144.3	136.8	131.3	125.4	120.0	115.9
69°	138.6	143.9	148.2	151.1	146.3	140.9	133.2	127.7	121.8	116.5	112.2
69.5°	134.8	140.5	144.7	147.2	142.8	137.0	129.5	124.2	118.3	112.9	109.0
70°	131.4	136.8	141.2	143.7	139.1	133.6	126.1	120.6	115.0	109.3	105.3
70.5°	127.7	133.2	137.4	139.9	135.4	129.8	122.2	117.0	111.2	106.0	101.9
71°	124.0	129.4	134.0	136.3	132.0	126.2	118.9	113.3	107.8	102.3	98.3
71.5°	120.5	126.0	129.9	132.7	128.1	122.7	115.1	109.9	104.2	98.9	95.0
72°	117.0	122.2	126.6	129.0	124.6	119.0	111.6	106.4	100.9	95.4	91.5
72.5°	113.5	118.9	123.0	125.5	120.9	115.5	108.0	103.1	97.2	92.1	88.2
73°	109.7	115.1	119.4	121.8	117.4	111.6	104.5	99.3	94.1	88.8	84.9
73.5°	106.4	111.7	115.7	118.3	114.0	108.3	101.1	96.1	90.7	85.4	81.6
74°	102.9	108.0	112.1	114.5	110.1	104.8	97.6	92.6	87.4	82.1	78.3
74.5°	99.3	104.7	108.6	111.1	106.8	101.3	94.2	89.3	84.1	78.9	74.9
75°	95.9	100.9	105.0	107.6	103.2	97.7	90.9	86.0	80.6	75.4	71.8
75.5°	92.5	97.6	101.6	104.3	99.7	94.4	87.6	82.7	77.3	72.3	68.4
76°	89.1	94.1	98.1	100.4	96.2	91.0	84.3	79.3	74.1	69.1	65.3
76.5°	85.8	90.8	94.5	97.1	92.6	87.7	80.9	76.1	70.9	66.0	62.3
77°	82.3	87.2	91.1	93.5	89.3	84.3	77.6	72.8	67.8	62.9	59.3
77.5°	79.0	83.9	87.6	90.1	85.9	80.9	74.2	69.7	64.7	60.0	56.4
78°	75.7	80.5	84.4	86.6	82.6	77.5	71.1	66.5	61.6	56.8	53.4
78.5°	72.6	77.3	80.8	83.3	79.1	74.2	67.8	63.5	58.6	54.0	50.6
79°	69.4	74.0	77.6	79.9	75.8	71.1	64.7	60.4	55.7	51.2	47.8
79.5°	66.2	70.8	74.2	76.6	72.6	67.8	61.6	57.5	52.9	48.4	45.1
80°	63.2	67.7	71.1	73.2	69.3	64.7	58.6	54.5	50.2	45.7	42.6
80.5°	60.1	64.4	67.8	69.9	66.1	61.5	55.6	51.8	47.4	43.0	39.9
81°	57.0	61.5	64.6	66.7	63.1	58.6	52.8	48.9	44.7	40.5	37.4
81.5°	54.3	58.4	61.7	63.6	60.0	55.5	49.9	46.2	42.1	38.0	35.1
82°	51.3	55.5	58.6	60.6	57.0	52.6	47.3	43.5	39.6	35.7	32.7
82.5°	48.7	52.5	55.6	57.4	54.0	49.7	44.6	41.1	37.2	33.4	30.5
83°	45.9	49.8	52.6	54.6	51.1	47.1	41.9	38.5	35.0	31.1	28.3
83.5°	43.3	47.1	49.8	51.8	48.2	44.4	39.5	36.1	32.6	29.0	26.3
84°	40.6	44.3	47.1	48.9	45.4	41.7	37.0	33.8	30.5	26.9	24.4
84.5°	38.3	41.6	44.3	46.0	42.8	39.2	34.5	31.5	28.4	24.9	22.5
85°	36.0	39.2	41.7	43.4	40.2	36.7	32.2	29.4	26.3	23.1	20.6
85.5°	33.9	37.2	39.1	40.7	37.6	34.3	30.0	27.4	24.4	21.3	19.0
86°	31.7	34.9	37.1	38.3	35.2	32.0	27.9	25.3	22.6	19.7	17.4
86.5°	29.4	32.5	34.8	35.9	32.8	29.8	25.8	23.5	20.7	18.0	15.9
87°	27.3	30.2	32.4	33.7	30.7	27.6	24.0	21.6	19.1	16.5	14.5
87.5°	25.2	27.8	30.0	31.4	28.4	25.7	22.1	19.9	17.5	15.1	13.2
88°	23.3	25.8	27.7	29.2	26.4	23.6	20.3	18.3	15.9	13.7	11.9
88.5°	21.5	23.8	25.7	26.9	24.4	21.8	18.7	16.7	14.5	12.4	10.8
89°	19.8	21.9	23.7	24.9	22.5	20.0	17.1	15.3	13.3	11.2	9.8
89.5°	18.1	20.1	21.8	23.0	20.7	18.4	15.6	13.9	12.0	10.2	9.0

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



TEST NUMBER: P855581
CATALOG NUMBER: HLCE6129FS1EWH-4000K

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: P855581
 CATALOG NUMBER: HLCE6129FS1EWH-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	444.5	444.5	444.5	444.5	444.5	444.5
0.5°	444.1	445.3	445.1	445.1	444.5	443.9
1°	444.0	444.3	444.3	444.4	443.9	444.4
1.5°	443.3	444.1	444.7	444.6	444.3	443.9
2°	443.5	444.1	444.2	444.5	443.9	444.7
2.5°	442.6	443.1	443.9	444.3	444.3	443.7
3°	442.3	443.5	443.5	443.9	443.3	444.4
3.5°	441.5	442.6	443.1	443.8	443.8	443.6
4°	440.8	441.9	442.6	443.3	443.2	443.9
4.5°	440.7	441.6	442.0	442.9	443.5	443.3
5°	439.6	440.9	441.7	442.1	442.2	443.7
5.5°	439.1	441.0	440.9	442.0	442.5	442.4
6°	438.1	439.3	441.1	441.4	441.5	442.8
6.5°	437.8	438.9	439.5	440.9	441.7	442.0
7°	436.6	438.4	439.5	440.2	440.6	442.0
7.5°	436.0	437.0	438.1	439.2	440.5	440.7
8°	434.7	437.0	438.2	439.1	439.6	440.8
8.5°	434.4	435.8	436.6	437.9	439.4	439.7
9°	432.9	434.7	436.4	437.6	438.4	439.3
9.5°	432.4	433.7	435.0	436.5	438.0	438.6
10°	430.8	432.9	434.3	436.1	436.7	438.0
10.5°	429.9	432.2	433.1	434.7	436.6	436.9
11°	428.9	430.3	432.3	433.9	434.8	436.6
11.5°	427.6	430.1	431.3	433.1	434.6	435.6
12°	426.3	428.5	430.0	432.4	433.4	434.4
12.5°	425.0	427.5	429.3	430.6	432.7	433.8
13°	424.2	425.9	427.9	430.0	431.2	432.9
13.5°	422.2	424.5	427.0	428.7	430.7	432.0
14°	421.4	423.7	425.3	427.9	429.4	430.7
14.5°	419.4	422.0	424.3	426.1	428.5	430.0
15°	418.9	420.9	422.8	425.3	426.9	428.7
15.5°	416.8	419.2	422.2	423.7	426.0	427.5
16°	415.8	417.7	419.8	422.9	424.5	426.3
16.5°	413.6	416.4	419.1	421.2	423.8	425.4
17°	412.3	414.5	417.0	420.3	421.9	423.9
17.5°	410.6	413.8	416.2	418.4	420.7	423.0
18°	409.0	411.4	413.7	417.1	419.2	421.0
18.5°	407.4	410.2	412.8	415.2	418.2	420.1
19°	405.5	408.2	410.9	414.3	416.1	418.5
19.5°	404.2	406.8	409.3	412.3	415.1	417.1
20°	401.9	404.5	407.3	411.1	413.2	415.1
20.5°	400.8	402.9	405.8	409.1	412.1	414.3
21°	398.2	401.6	404.2	407.6	409.8	412.4
21.5°	396.6	399.1	401.9	405.6	408.9	410.9
22°	394.2	397.8	400.7	404.0	406.7	409.0

TEST NUMBER: P855581
 CATALOG NUMBER: HLCE6129FS1EWH-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	393.0	395.7	398.3	402.2	405.2	407.7
23°	390.2	393.5	397.0	400.5	403.2	405.6
23.5°	388.7	391.6	394.5	398.5	401.9	404.3
24°	386.7	389.7	393.3	396.6	399.7	402.2
24.5°	384.4	388.1	390.7	394.5	398.2	400.5
25°	382.5	385.4	389.3	392.9	395.7	398.6
25.5°	380.4	383.4	386.8	390.6	394.4	396.9
26°	378.1	381.6	385.0	388.8	391.9	394.8
26.5°	375.9	378.7	382.7	386.7	390.6	392.9
27°	373.8	377.2	380.7	384.5	387.7	391.0
27.5°	371.1	374.7	378.3	382.6	386.2	389.1
28°	369.5	372.2	376.3	380.3	383.9	386.5
28.5°	366.6	370.4	374.3	378.3	382.1	385.2
29°	364.8	367.9	371.5	375.8	379.4	382.6
29.5°	361.5	365.8	369.8	374.4	377.8	380.6
30°	359.9	362.7	367.2	371.4	375.3	378.2
30.5°	357.2	360.9	365.0	369.6	373.3	376.4
31°	354.8	358.5	362.2	366.9	370.5	373.8
31.5°	352.0	355.6	360.3	365.0	368.7	371.9
32°	349.8	353.6	357.8	361.9	366.1	369.1
32.5°	347.3	350.5	355.2	360.4	364.2	367.2
33°	344.5	348.2	352.7	357.3	361.3	364.8
33.5°	342.4	345.7	350.2	355.3	359.2	362.5
34°	339.2	343.0	347.9	352.0	356.6	359.7
34.5°	336.9	340.9	345.1	350.4	354.2	357.6
35°	334.3	337.7	342.7	347.1	351.4	355.2
35.5°	331.3	335.6	339.6	345.1	349.4	352.7
36°	328.6	332.6	337.3	342.1	346.5	349.9
36.5°	325.8	329.9	334.3	339.6	344.3	347.7
37°	323.5	327.2	331.7	337.1	341.1	345.1
37.5°	320.3	324.3	328.9	334.3	339.0	342.5
38°	318.0	321.8	326.4	331.6	335.8	339.6
38.5°	314.6	318.9	323.5	328.7	333.3	337.4
39°	311.9	315.8	320.7	326.6	330.3	334.5
39.5°	309.1	313.3	318.2	323.3	328.0	332.1
40°	306.3	309.9	315.0	320.8	325.1	328.9
40.5°	303.3	307.6	312.4	317.7	322.4	326.5
41°	300.2	304.2	309.5	315.2	319.3	323.6
41.5°	297.6	301.8	306.8	311.9	316.8	320.9
42°	294.3	298.1	303.3	309.7	313.7	317.6
42.5°	291.6	295.5	300.9	306.4	311.1	315.3
43°	288.1	292.8	297.4	303.7	307.9	312.2
43.5°	285.4	289.4	294.9	300.3	305.2	309.6
44°	282.1	286.6	291.4	297.8	302.1	306.2
44.5°	279.3	283.5	288.7	294.3	299.4	303.6

TEST NUMBER: P855581
 CATALOG NUMBER: HLCE6129FS1EWH-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	275.8	280.2	285.4	291.8	296.0	300.7
45.5°	272.7	277.3	282.4	288.3	293.4	297.5
46°	269.8	274.0	279.3	285.4	290.1	294.5
46.5°	266.6	271.2	276.1	282.3	287.5	291.6
47°	263.5	267.5	273.4	279.4	283.8	288.5
47.5°	260.2	264.6	269.9	276.1	281.1	285.6
48°	257.2	261.7	267.0	273.1	277.8	282.1
48.5°	253.5	257.9	263.6	270.1	274.8	279.5
49°	250.8	255.0	260.7	266.7	271.4	276.0
49.5°	247.1	251.7	257.1	263.6	268.6	273.1
50°	244.1	248.4	254.1	260.5	265.1	269.6
50.5°	240.6	245.1	250.8	257.3	262.3	266.9
51°	237.5	241.8	247.6	253.6	258.4	263.4
51.5°	233.8	238.8	243.9	250.9	255.6	260.4
52°	230.5	234.8	240.8	247.2	252.0	256.7
52.5°	227.1	232.0	237.6	244.2	249.2	253.9
53°	223.8	228.4	234.0	240.4	245.4	250.4
53.5°	220.5	225.0	230.8	237.8	242.4	247.3
54°	217.0	221.6	227.3	233.8	238.9	243.7
54.5°	213.8	218.1	223.9	231.0	235.6	240.6
55°	210.0	214.9	220.4	227.1	231.9	237.1
55.5°	207.0	211.3	217.2	224.1	228.9	234.0
56°	203.2	208.1	213.5	220.4	225.4	230.4
56.5°	199.9	204.6	210.1	217.3	222.0	227.3
57°	196.1	200.8	206.5	213.5	218.6	223.7
57.5°	192.9	197.6	203.1	210.1	214.9	220.5
58°	189.0	193.9	199.8	206.7	211.5	216.6
58.5°	185.7	190.6	196.0	203.2	208.2	213.4
59°	182.0	186.8	192.7	199.6	204.5	210.0
59.5°	178.4	183.5	189.0	196.2	201.0	206.5
60°	174.9	179.9	185.7	192.8	197.4	203.0
60.5°	171.3	176.1	181.9	189.1	194.2	199.4
61°	167.9	172.7	178.6	185.7	190.3	196.0
61.5°	164.1	169.1	174.7	182.0	186.9	192.3
62°	160.7	165.7	171.4	178.5	183.5	188.8
62.5°	156.8	161.9	167.5	174.8	179.9	185.3
63°	153.6	158.3	164.3	171.4	176.2	181.9
63.5°	149.7	154.9	160.5	167.7	172.8	178.0
64°	146.1	151.0	157.0	164.3	169.1	174.6
64.5°	142.4	147.6	153.2	160.4	165.5	170.9
65°	138.8	144.0	149.6	157.0	161.9	167.5
65.5°	135.3	140.2	146.1	153.3	158.3	163.8
66°	131.5	136.8	142.3	149.7	154.9	160.4
66.5°	128.0	133.0	138.9	146.0	151.1	156.4
67°	124.4	129.5	135.2	142.4	147.6	153.1

TEST NUMBER: P855581
 CATALOG NUMBER: HLCE6129FS1EWH-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	120.9	125.9	131.6	138.9	143.7	149.3
68°	117.2	122.2	127.9	135.3	140.3	145.9
68.5°	113.8	118.8	124.5	131.5	136.6	142.0
69°	110.0	115.1	120.7	128.0	133.1	138.6
69.5°	106.7	111.6	117.4	124.5	129.4	134.8
70°	103.2	108.1	113.5	120.7	125.9	131.4
70.5°	99.7	104.4	110.0	117.4	122.1	127.7
71°	96.1	101.1	106.6	113.7	118.6	124.0
71.5°	92.7	97.5	103.1	110.2	115.2	120.5
72°	89.4	94.1	99.4	106.6	111.4	117.0
72.5°	86.0	90.6	96.0	103.3	108.1	113.5
73°	82.7	87.2	92.6	99.7	104.5	109.7
73.5°	79.2	83.9	89.1	96.2	101.1	106.4
74°	76.1	80.4	85.9	92.6	97.4	102.9
74.5°	72.8	77.2	82.3	89.4	94.2	99.3
75°	69.6	74.0	79.1	85.9	90.6	95.9
75.5°	66.4	70.7	75.7	82.7	87.4	92.5
76°	63.3	67.6	72.6	79.2	83.9	89.1
76.5°	60.3	64.4	69.4	76.0	80.6	85.8
77°	57.2	61.4	66.2	72.8	77.3	82.3
77.5°	54.3	58.3	63.1	69.5	74.1	79.0
78°	51.4	55.4	60.1	66.5	70.9	75.7
78.5°	48.7	52.5	57.1	63.3	67.6	72.6
79°	46.0	49.6	54.2	60.4	64.7	69.4
79.5°	43.3	46.8	51.3	57.2	61.6	66.2
80°	40.6	44.2	48.4	54.4	58.6	63.2
80.5°	38.2	41.6	45.8	51.5	55.6	60.1
81°	35.7	39.0	43.2	48.8	52.7	57.0
81.5°	33.4	36.5	40.5	46.1	49.9	54.3
82°	31.1	34.2	38.0	43.4	47.3	51.3
82.5°	28.9	32.3	35.8	40.7	44.5	48.7
83°	26.8	30.2	33.6	38.4	41.9	45.9
83.5°	24.8	28.0	31.3	36.1	39.5	43.3
84°	23.0	25.9	29.2	33.9	36.8	40.6
84.5°	21.1	23.7	26.9	31.8	34.6	38.3
85°	19.4	21.8	24.9	29.5	32.5	36.0
85.5°	17.8	20.1	23.1	27.3	30.4	33.9
86°	16.3	18.4	21.3	25.3	28.2	31.7
86.5°	14.8	16.8	19.6	23.3	26.2	29.4
87°	13.4	15.3	17.9	21.6	24.3	27.3
87.5°	12.1	13.9	16.4	19.8	22.3	25.2
88°	10.9	12.5	14.9	18.2	20.6	23.3
88.5°	9.9	11.3	13.5	16.6	18.9	21.5
89°	9.0	10.2	12.2	15.2	17.3	19.8
89.5°	8.1	9.1	11.0	13.8	15.8	18.1

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



TEST NUMBER: P855581
CATALOG NUMBER: HLCE6129FS1EWH-4000K

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)