

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: P855580

Luminaire Tested: **HLCE6129FS1EWH-3500K**

Issue Date: 7/16/2024

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P855580
 Test Lab:
 Issue Date: 7/16/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: HLCE6129FS1EWH-3500K
 Description: 6IN 1200LM, 90CRI, DIMMING TO 10%, DAMP LOCATION
 Light Source: SELECTABLE CCT 90CRI / 3500K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: 1223.3 (1 lamp)
 Luminaire Lumens: 1275.0 lumens
 Efficiency: 104.2%
 Efficacy: 85.0 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

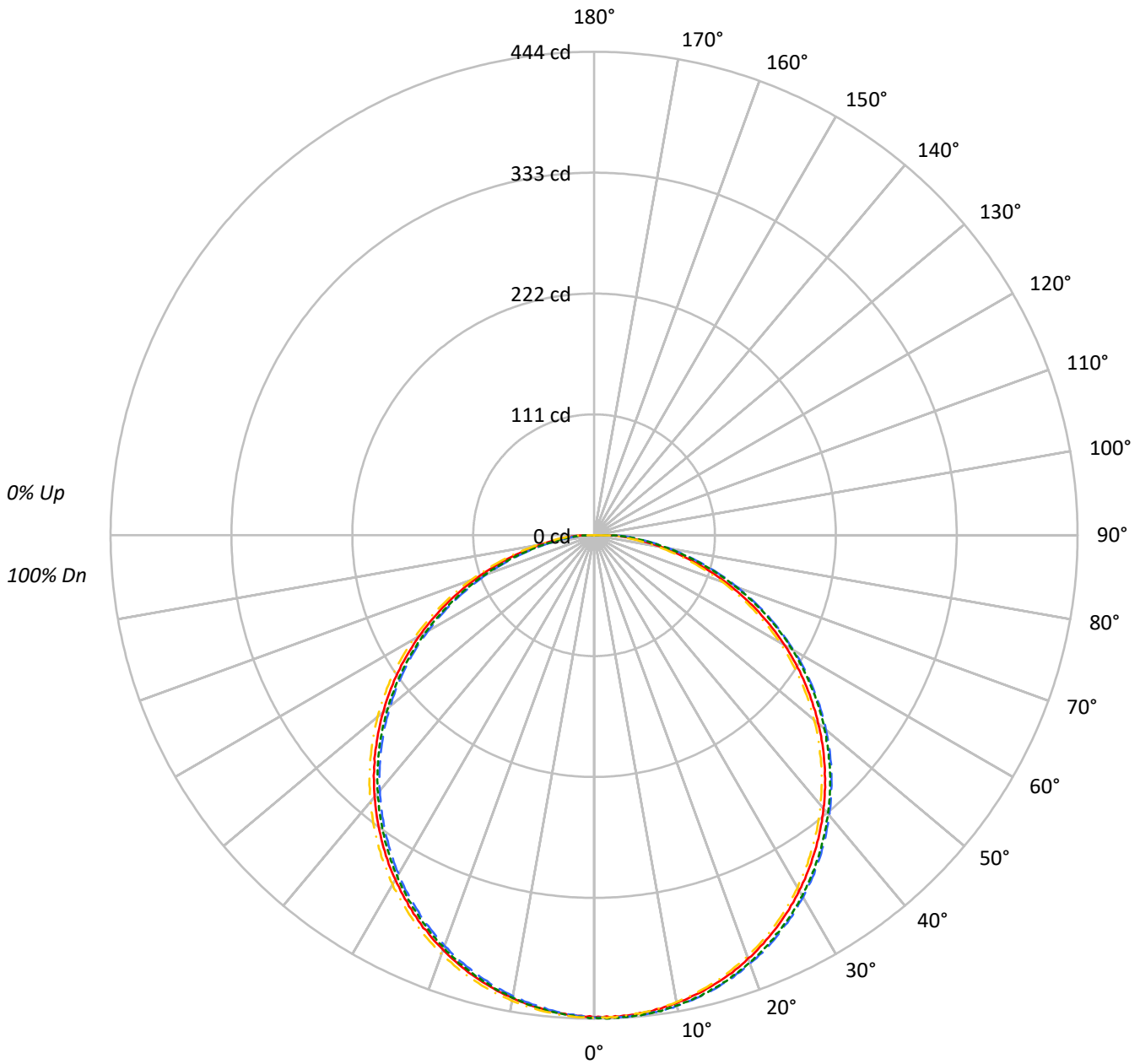
Input Watts (W): 15
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



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	0	
RCR																						
0	124	124	124	124	121	121	121	121	116	116	116	111	111	111	106	106	106	104				
1	113	108	103	99	110	105	101	97	101	97	94	97	94	91	93	91	89	86				
2	102	94	86	80	100	92	85	79	88	82	77	84	80	76	81	77	74	72				
3	93	82	73	66	91	80	72	66	77	70	65	74	69	64	72	67	62	60				
4	85	73	63	56	83	71	63	56	69	61	55	66	60	54	64	58	54	51				
5	78	65	55	48	76	64	55	48	61	54	48	59	52	47	57	51	46	44				
6	72	58	49	42	70	57	48	42	55	48	42	54	47	41	52	46	41	39				
7	67	53	44	37	65	52	43	37	50	43	37	49	42	36	47	41	36	34				
8	63	48	39	33	61	48	39	33	46	38	33	45	38	33	44	37	32	30				
9	58	44	36	30	57	44	35	30	42	35	30	41	34	29	40	34	29	27				
10	55	41	33	27	53	40	32	27	39	32	27	38	31	27	37	31	27	25				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	24274	24274	24274	24274
5°	24318	24373	24169	24169
10°	24287	24421	24020	24003
15°	24234	24410	23848	23791
20°	24123	24362	23639	23510
25°	24020	24316	23378	23221
30°	23845	24219	23111	22871
35°	23677	24072	22801	22513
40°	23444	23909	22442	22091
45°	23219	23731	22041	21638
50°	22899	23530	21569	21100
55°	22566	23301	21036	20463
60°	22169	23057	20327	19648
65°	21637	22674	19431	18614
70°	20981	22215	18352	17263
75°	20228	21774	17008	15610
80°	19889	21783	15785	13891
85°	22581	25223	16480	13649

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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	41.9	3.3	3.4
10°-20°	119.7	9.4	9.8
20°-30°	180.9	14.2	14.8
30°-40°	217.5	17.1	17.8
40°-50°	225.5	17.7	18.4
50°-60°	204.3	16.0	16.7
60°-70°	157.0	12.3	12.8
70°-80°	93.4	7.3	7.6
80°-90°	34.8	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°	342.4	26.9	28.0
0°-40°	560.0	43.9	45.8
0°-60°	989.7	77.6	80.9
0°-90°	1275.0	100.0	104.2
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	1275.0	100.0	104.2

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	443	443	443	443	443	
5°	442	443	439	439	442	42
15°	427	430	420	419	427	121
25°	397	402	386	384	397	183
35°	354	360	341	336	354	221
45°	300	306	284	279	300	231
55°	236	244	220	214	236	211
65°	167	175	150	144	167	165
75°	96	103	80	74	96	101
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°	442.8	442.8	442.8	442.8	442.8	442.8	442.8	442.8	442.8	442.8	442.8
0.5°	442.1	442.7	443.2	442.6	443.6	444.0	443.3	442.8	441.7	442.3	442.3
1°	442.7	443.3	442.7	443.4	443.4	443.3	442.6	441.8	442.3	442.4	442.1
1.5°	442.1	442.7	443.5	443.1	444.1	444.1	443.4	442.4	441.6	442.1	441.6
2°	443.0	443.1	442.9	443.7	443.9	443.3	442.6	441.9	441.7	441.5	441.8
2.5°	441.9	442.9	443.2	443.2	443.4	443.9	443.2	441.9	440.9	441.6	440.6
3°	442.7	443.1	443.3	443.3	443.9	443.0	442.0	441.1	441.4	440.3	440.7
3.5°	441.8	442.7	443.1	443.3	443.2	443.9	442.6	441.5	440.3	440.9	439.8
4°	442.1	442.7	443.4	443.2	443.5	443.0	441.7	440.8	440.1	439.9	439.4
4.5°	441.6	442.7	442.8	443.0	443.3	443.0	442.1	440.6	439.5	439.7	439.0
5°	441.9	442.1	443.3	443.2	442.9	442.3	440.9	439.8	439.2	438.4	438.0
5.5°	440.7	442.4	442.5	443.0	443.1	442.6	441.4	439.7	438.4	438.6	437.9
6°	441.1	441.3	442.7	442.6	442.3	441.8	440.2	439.0	438.1	437.6	436.4
6.5°	440.2	441.5	442.1	442.8	442.3	441.4	440.1	438.5	437.0	436.8	436.5
7°	440.2	441.0	441.3	441.9	441.9	440.9	439.1	437.7	436.6	436.3	434.8
7.5°	439.0	441.1	441.7	442.0	441.0	440.3	439.3	437.1	435.8	435.0	434.6
8°	439.1	439.7	440.9	441.2	441.3	440.0	438.2	436.3	435.3	434.8	433.3
8.5°	438.0	440.1	440.8	441.2	440.0	439.1	437.6	436.0	434.1	433.6	432.9
9°	437.6	438.8	439.6	440.1	439.9	439.1	436.7	434.6	433.5	433.3	431.4
9.5°	436.9	438.8	439.9	440.1	438.8	437.9	436.4	434.4	432.7	431.5	430.5
10°	436.3	437.8	438.4	439.2	438.7	438.0	435.2	433.3	431.5	431.1	429.8
10.5°	435.2	437.2	438.6	439.1	438.1	436.4	434.6	432.5	430.4	429.6	428.4
11°	434.9	436.4	437.5	437.9	437.0	436.3	433.2	431.3	429.9	428.9	427.6
11.5°	433.9	435.8	436.7	437.5	436.8	434.8	432.9	430.6	428.5	427.8	426.2
12°	432.7	435.0	436.3	436.7	435.8	434.4	431.8	429.7	427.8	426.5	425.2
12.5°	432.1	433.8	435.3	435.8	434.6	432.8	431.0	428.6	426.5	425.5	423.8
13°	431.2	433.3	434.7	435.1	434.3	432.8	429.6	427.1	425.3	423.9	422.8
13.5°	430.3	432.1	433.2	433.9	432.9	431.4	428.7	426.4	424.0	423.2	421.0
14°	429.0	431.8	433.2	433.3	432.3	430.2	427.8	425.2	422.9	421.4	420.0
14.5°	428.3	430.0	431.7	432.7	430.8	429.4	426.3	423.9	421.6	420.6	418.7
15°	427.0	429.8	431.1	431.7	430.1	428.4	425.2	422.8	420.2	418.7	416.9
15.5°	425.9	428.1	429.9	430.1	429.3	427.3	424.3	421.1	419.0	418.0	415.9
16°	424.7	427.3	428.4	429.7	427.7	425.5	422.9	420.5	417.8	415.6	414.0
16.5°	423.7	426.0	427.8	428.1	427.1	425.2	421.5	418.9	416.1	415.2	413.1
17°	422.2	424.8	426.5	427.7	425.6	423.5	420.3	417.4	414.8	412.9	411.0
17.5°	421.4	423.3	425.5	425.7	424.1	422.3	418.8	415.6	413.3	411.7	410.0
18°	419.4	422.5	423.5	425.1	423.4	420.6	417.2	415.0	411.6	409.7	407.7
18.5°	418.5	421.1	423.0	423.5	421.6	419.8	416.1	412.8	410.2	408.5	406.5
19°	416.9	419.0	421.4	422.7	420.5	418.0	414.6	411.8	408.6	406.6	405.0
19.5°	415.5	418.5	420.1	420.7	418.9	416.7	413.2	409.6	406.9	405.1	402.7
20°	413.5	416.7	418.6	419.8	417.6	415.5	411.5	408.6	405.2	403.2	401.6
20.5°	412.6	415.6	417.2	418.0	416.5	413.7	409.9	406.3	403.4	401.1	399.0
21°	410.8	413.5	416.2	417.1	414.6	412.4	408.1	405.4	401.9	400.2	397.7
21.5°	409.3	412.8	414.2	415.2	413.4	410.2	407.0	403.1	400.3	397.7	395.6
22°	407.4	410.4	413.4	413.4	411.6	409.2	405.1	401.7	398.4	396.1	393.7

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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°	406.1	409.4	411.0	412.2	410.0	407.3	403.3	399.9	396.5	394.0	391.9
23°	404.0	407.2	410.0	410.4	408.6	406.1	401.6	397.8	394.1	392.2	389.7
23.5°	402.7	405.8	408.2	409.1	406.7	403.7	399.8	395.9	393.3	390.3	388.4
24°	400.6	403.9	406.7	407.3	405.5	402.5	398.2	394.4	390.7	388.4	385.6
24.5°	398.9	402.3	404.7	406.1	402.8	400.4	396.0	392.1	389.0	386.4	384.3
25°	397.1	400.4	403.0	403.7	402.0	398.5	394.5	390.3	386.5	383.9	381.4
25.5°	395.4	398.5	401.6	402.6	399.6	396.7	392.2	388.1	385.1	382.5	379.6
26°	393.3	397.0	399.0	400.3	397.8	394.9	390.6	386.8	382.4	379.8	377.4
26.5°	391.3	394.9	397.8	398.4	396.1	392.9	388.3	384.1	381.0	378.1	375.3
27°	389.4	392.8	395.5	396.8	394.2	390.6	386.4	382.5	377.9	375.4	373.1
27.5°	387.6	391.0	394.0	394.9	392.4	389.3	384.0	379.8	376.4	373.4	370.7
28°	384.9	389.3	391.8	393.0	390.3	386.8	382.5	378.6	374.1	371.3	368.9
28.5°	383.7	386.7	390.3	390.7	388.1	384.8	379.7	375.7	372.2	369.1	366.1
29°	381.1	385.4	387.4	389.3	386.7	382.4	378.2	374.1	369.4	366.5	364.0
29.5°	379.1	382.5	385.8	386.7	383.7	381.0	375.7	370.9	367.5	364.3	361.6
30°	376.7	381.1	383.9	385.3	382.6	378.3	373.9	369.5	365.1	362.2	358.7
30.5°	374.9	378.6	381.5	382.5	379.9	376.2	370.9	367.1	362.9	359.5	357.1
31°	372.4	377.0	379.8	381.1	378.0	373.9	369.4	364.8	360.6	357.5	354.2
31.5°	370.5	373.9	377.1	378.2	375.5	371.7	366.6	362.0	358.1	354.6	352.1
32°	367.7	372.2	375.4	376.6	373.6	369.7	364.7	360.2	356.1	352.7	349.1
32.5°	365.8	369.6	372.8	373.8	371.3	367.3	361.7	357.6	353.0	349.8	347.2
33°	363.3	367.9	371.1	371.7	368.7	365.0	360.0	355.3	351.2	347.6	344.2
33.5°	361.1	364.8	368.2	369.7	367.1	362.4	357.0	352.4	348.0	344.6	342.0
34°	358.3	362.8	366.0	367.4	364.1	360.7	355.0	350.5	345.9	342.3	338.9
34.5°	356.2	360.2	363.6	364.7	361.6	357.6	352.0	347.6	343.2	339.5	336.6
35°	353.8	357.8	361.4	362.4	359.7	355.6	350.1	345.8	340.7	337.4	334.1
35.5°	351.3	355.7	359.0	360.5	356.9	352.9	347.1	342.6	337.9	334.2	331.1
36°	348.5	352.9	356.2	357.5	354.7	350.2	344.9	340.4	335.5	331.9	328.7
36.5°	346.4	350.4	354.2	355.7	352.1	347.9	341.9	337.4	332.7	329.1	325.5
37°	343.7	348.0	351.5	352.6	349.6	345.5	339.8	335.3	330.1	326.4	323.3
37.5°	341.2	345.6	349.3	350.7	347.2	343.0	337.1	331.9	327.3	323.7	320.3
38°	338.3	342.6	346.5	347.8	344.4	340.0	334.5	330.2	324.7	320.9	317.6
38.5°	336.1	340.6	343.6	345.9	342.4	338.0	331.6	326.8	322.0	318.2	314.5
39°	333.2	337.4	341.3	342.4	339.1	335.0	329.1	324.4	319.0	315.3	311.7
39.5°	330.8	335.3	338.4	340.1	336.8	332.5	326.2	320.9	316.2	312.5	309.3
40°	327.6	332.0	336.5	337.3	334.1	329.3	323.4	319.0	313.6	309.4	306.0
40.5°	325.2	330.0	333.1	335.1	331.3	327.4	320.5	315.7	310.8	307.2	303.6
41°	322.3	326.8	330.8	331.9	328.8	323.9	318.0	313.3	307.9	303.9	300.2
41.5°	319.7	324.2	327.9	329.2	325.9	321.8	315.0	309.9	305.1	301.2	297.4
42°	316.4	321.1	325.1	326.8	323.4	318.4	312.2	307.8	301.9	297.9	294.6
42.5°	314.1	318.5	322.6	323.7	320.3	316.1	309.4	304.2	299.7	295.2	291.3
43°	311.0	315.7	319.4	321.4	317.8	312.9	306.3	301.9	296.1	292.2	288.7
43.5°	308.4	312.9	316.9	318.1	314.9	310.0	303.7	298.2	293.7	289.1	285.3
44°	305.0	310.0	313.9	315.7	311.9	307.0	300.5	296.0	290.0	286.1	282.7
44.5°	302.4	306.8	311.2	312.5	309.4	304.1	297.8	292.6	287.8	282.9	279.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	299.5	304.2	308.3	310.3	306.1	301.7	294.6	290.0	284.3	280.2	276.4
45.5°	296.3	301.0	305.2	306.6	303.5	298.2	292.1	286.3	281.5	276.7	273.1
46°	293.3	298.1	302.6	304.0	300.4	295.7	288.4	283.9	277.8	274.1	269.8
46.5°	290.5	295.2	299.3	301.0	297.2	292.2	285.9	280.6	275.3	270.3	267.1
47°	287.4	292.3	296.4	298.0	294.6	289.6	282.8	277.7	272.0	268.0	263.7
47.5°	284.5	289.1	293.5	295.2	291.2	286.1	279.7	274.2	269.1	264.4	260.8
48°	281.0	286.2	290.2	291.9	288.8	283.7	276.4	271.7	265.7	261.3	257.2
48.5°	278.4	282.9	287.3	289.0	284.9	280.1	273.5	268.0	262.5	257.8	254.6
49°	274.9	280.2	284.1	285.8	282.5	276.9	270.3	265.3	259.6	255.1	250.8
49.5°	272.0	276.7	281.3	283.2	279.2	274.1	267.0	261.7	256.3	251.4	247.9
50°	268.5	274.1	277.8	279.6	275.9	270.9	263.7	258.9	252.9	248.5	244.5
50.5°	265.9	270.4	275.0	276.9	273.1	267.8	260.8	255.4	249.8	245.1	241.0
51°	262.3	267.7	271.7	273.5	269.9	264.2	257.3	252.4	246.7	241.8	238.2
51.5°	259.4	264.3	268.4	270.7	266.8	261.6	254.3	248.8	243.2	238.6	234.5
52°	255.7	261.3	265.7	267.2	263.3	258.0	251.0	246.1	240.2	235.2	231.5
52.5°	252.9	257.7	261.9	264.2	260.4	254.9	247.8	242.4	236.5	231.9	227.7
53°	249.5	254.9	259.2	261.0	257.1	251.6	244.6	239.2	233.6	228.5	224.9
53.5°	246.4	251.3	255.6	257.8	253.6	248.2	241.0	235.6	229.9	225.4	221.1
54°	242.8	248.2	252.5	254.5	250.7	245.2	238.0	232.8	227.0	221.9	217.9
54.5°	239.7	244.7	248.9	251.2	247.1	241.8	234.5	229.1	223.2	218.6	214.3
55°	236.1	241.6	245.7	247.9	243.8	238.5	231.2	226.0	220.1	214.8	210.9
55.5°	233.1	238.3	242.6	244.6	240.6	235.0	227.6	222.2	216.4	211.9	207.7
56°	229.5	235.0	239.0	241.5	237.3	231.7	224.4	219.2	213.4	208.0	204.2
56.5°	226.5	231.5	235.9	237.7	234.1	228.3	221.1	215.5	209.5	204.9	200.9
57°	222.8	228.1	232.4	234.8	230.4	224.9	217.5	212.4	206.4	201.2	197.2
57.5°	219.6	224.7	229.0	231.2	227.3	221.6	214.1	208.7	202.8	198.0	194.0
58°	215.8	221.2	225.7	227.9	223.8	217.9	210.9	205.7	199.5	194.3	190.5
58.5°	212.6	217.9	222.1	224.2	220.5	214.7	207.3	201.7	195.8	191.0	186.7
59°	209.2	214.3	219.0	221.1	217.3	211.3	204.0	198.7	192.6	187.0	183.3
59.5°	205.7	211.3	215.1	217.7	213.6	208.0	200.4	194.7	189.0	184.0	179.6
60°	202.2	207.5	212.0	214.4	210.3	203.9	196.9	191.6	185.4	180.2	176.4
60.5°	198.7	204.4	208.3	210.9	206.7	201.0	193.4	187.8	181.8	176.8	172.6
61°	195.2	200.4	204.8	207.3	203.2	197.4	190.1	184.6	178.6	173.1	169.0
61.5°	191.5	197.3	201.6	203.9	199.7	194.1	186.4	180.8	174.9	169.7	165.4
62°	188.1	193.4	197.7	200.3	196.0	190.1	182.8	177.5	171.2	166.1	161.9
62.5°	184.6	190.3	194.5	196.9	192.6	186.8	179.3	173.6	168.0	162.3	158.6
63°	181.2	186.4	190.9	193.0	188.9	183.2	175.8	170.2	164.0	159.1	154.8
63.5°	177.3	183.2	187.5	189.8	185.6	179.7	171.9	166.5	160.8	155.2	151.4
64°	173.9	179.4	183.8	186.2	181.8	176.3	168.7	163.3	157.1	151.9	147.5
64.5°	170.2	176.0	180.0	182.8	178.3	172.6	164.9	159.5	153.7	148.2	144.1
65°	166.8	172.0	176.7	178.8	174.8	169.0	161.5	155.9	149.8	144.8	140.4
65.5°	163.2	168.7	172.9	175.5	171.1	165.4	157.6	152.2	146.6	140.8	136.8
66°	159.8	165.1	169.6	171.8	167.8	161.9	154.3	148.8	142.7	137.4	133.4
66.5°	155.8	161.6	165.8	168.3	164.0	158.0	150.6	145.2	139.3	133.8	129.6
67°	152.5	157.9	162.1	164.9	160.4	154.9	147.1	141.6	135.6	130.2	126.1

TEST NUMBER: P855580
 CATALOG NUMBER: HLCE6129FS1EWH-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	148.7	154.3	158.7	161.1	156.9	150.9	143.4	137.9	132.1	126.5	122.5
68°	145.3	150.7	155.0	157.5	153.1	147.5	140.1	134.5	128.6	123.1	119.0
68.5°	141.5	147.2	151.6	153.9	149.7	143.7	136.2	130.8	124.9	119.5	115.5
69°	138.0	143.4	147.6	150.5	145.7	140.4	132.7	127.2	121.3	116.0	111.7
69.5°	134.3	140.0	144.1	146.7	142.2	136.4	129.0	123.7	117.8	112.5	108.5
70°	130.9	136.2	140.6	143.2	138.6	133.0	125.6	120.2	114.5	108.9	104.9
70.5°	127.2	132.7	136.9	139.3	134.8	129.3	121.7	116.5	110.8	105.6	101.5
71°	123.6	128.9	133.5	135.8	131.4	125.7	118.4	112.9	107.4	101.9	97.9
71.5°	120.0	125.5	129.4	132.2	127.6	122.2	114.6	109.5	103.7	98.5	94.6
72°	116.5	121.7	126.1	128.5	124.1	118.6	111.2	106.0	100.6	95.0	91.2
72.5°	113.0	118.4	122.5	125.1	120.5	115.0	107.6	102.7	96.8	91.7	87.9
73°	109.3	114.6	119.0	121.3	117.0	111.2	104.1	99.0	93.7	88.4	84.6
73.5°	106.0	111.3	115.3	117.8	113.5	107.9	100.7	95.8	90.3	85.1	81.3
74°	102.5	107.6	111.6	114.1	109.7	104.4	97.2	92.2	87.0	81.8	78.0
74.5°	99.0	104.3	108.2	110.7	106.4	100.9	93.8	88.9	83.7	78.6	74.6
75°	95.5	100.6	104.6	107.2	102.8	97.4	90.5	85.6	80.3	75.1	71.5
75.5°	92.1	97.2	101.2	103.9	99.3	94.1	87.2	82.3	77.0	72.0	68.2
76°	88.7	93.7	97.7	100.0	95.9	90.6	83.9	79.0	73.8	68.8	65.1
76.5°	85.4	90.4	94.2	96.7	92.2	87.3	80.6	75.8	70.6	65.7	62.1
77°	82.0	86.8	90.8	93.1	88.9	83.9	77.3	72.5	67.5	62.6	59.1
77.5°	78.7	83.6	87.2	89.8	85.5	80.6	73.9	69.4	64.4	59.8	56.1
78°	75.4	80.2	84.0	86.3	82.2	77.2	70.8	66.3	61.4	56.6	53.2
78.5°	72.3	77.0	80.5	83.0	78.8	73.9	67.5	63.3	58.4	53.8	50.4
79°	69.1	73.7	77.3	79.6	75.5	70.8	64.4	60.2	55.5	51.0	47.6
79.5°	65.9	70.5	73.9	76.3	72.3	67.5	61.4	57.3	52.7	48.3	44.9
80°	63.0	67.4	70.8	73.0	69.0	64.4	58.4	54.3	50.0	45.5	42.4
80.5°	59.9	64.1	67.5	69.7	65.8	61.2	55.4	51.6	47.2	42.8	39.7
81°	56.8	61.2	64.3	66.5	62.8	58.4	52.6	48.7	44.5	40.4	37.3
81.5°	54.1	58.2	61.5	63.4	59.8	55.3	49.7	46.0	42.0	37.8	34.9
82°	51.1	55.3	58.4	60.4	56.8	52.4	47.1	43.4	39.4	35.6	32.6
82.5°	48.5	52.3	55.4	57.2	53.8	49.5	44.4	40.9	37.1	33.2	30.4
83°	45.7	49.6	52.4	54.4	50.9	46.9	41.8	38.3	34.8	31.0	28.2
83.5°	43.1	46.9	49.6	51.6	48.0	44.2	39.3	36.0	32.5	28.9	26.2
84°	40.5	44.1	46.9	48.7	45.3	41.5	36.9	33.7	30.4	26.8	24.3
84.5°	38.1	41.4	44.1	45.8	42.6	39.1	34.4	31.4	28.3	24.8	22.4
85°	35.9	39.1	41.5	43.2	40.1	36.5	32.1	29.3	26.2	23.0	20.6
85.5°	33.8	37.1	39.0	40.6	37.5	34.2	29.9	27.3	24.3	21.2	19.0
86°	31.5	34.7	37.0	38.1	35.0	31.8	27.8	25.2	22.5	19.6	17.4
86.5°	29.3	32.4	34.6	35.8	32.7	29.7	25.7	23.4	20.7	17.9	15.9
87°	27.2	30.0	32.3	33.6	30.6	27.5	23.9	21.5	19.1	16.4	14.5
87.5°	25.1	27.7	29.9	31.3	28.3	25.6	22.0	19.8	17.5	15.0	13.1
88°	23.2	25.7	27.6	29.1	26.3	23.5	20.2	18.2	15.9	13.6	11.8
88.5°	21.4	23.8	25.6	26.8	24.3	21.7	18.6	16.6	14.5	12.4	10.8
89°	19.7	21.8	23.6	24.8	22.4	19.9	17.0	15.2	13.2	11.2	9.8
89.5°	18.0	20.0	21.7	22.9	20.7	18.3	15.6	13.8	11.9	10.1	8.9

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



TEST NUMBER: P855580
CATALOG NUMBER: HLCE6129FS1EWH-3500K

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: P855580
 CATALOG NUMBER: HLCE6129FS1EWH-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	442.8	442.8	442.8	442.8	442.8	442.8
0.5°	442.4	443.5	443.3	443.3	442.8	442.1
1°	442.3	442.6	442.6	442.7	442.1	442.7
1.5°	441.6	442.4	443.0	442.9	442.6	442.1
2°	441.7	442.4	442.5	442.8	442.1	443.0
2.5°	440.9	441.4	442.1	442.6	442.6	441.9
3°	440.6	441.7	441.7	442.1	441.6	442.7
3.5°	439.8	440.9	441.4	442.0	442.0	441.8
4°	439.1	440.1	440.9	441.6	441.5	442.1
4.5°	439.0	439.9	440.2	441.2	441.7	441.6
5°	437.9	439.2	440.0	440.3	440.4	441.9
5.5°	437.4	439.3	439.2	440.2	440.8	440.7
6°	436.4	437.6	439.4	439.7	439.8	441.1
6.5°	436.1	437.1	437.8	439.2	440.0	440.2
7°	434.9	436.7	437.8	438.5	438.8	440.2
7.5°	434.3	435.3	436.4	437.5	438.7	439.0
8°	433.0	435.3	436.5	437.4	437.9	439.1
8.5°	432.7	434.1	434.9	436.2	437.7	438.0
9°	431.2	433.0	434.7	435.9	436.7	437.6
9.5°	430.8	432.0	433.3	434.8	436.3	436.9
10°	429.2	431.2	432.6	434.4	435.0	436.3
10.5°	428.2	430.5	431.4	433.0	434.9	435.2
11°	427.2	428.6	430.6	432.2	433.1	434.9
11.5°	426.0	428.4	429.6	431.4	432.9	433.9
12°	424.7	426.8	428.3	430.8	431.7	432.7
12.5°	423.3	425.9	427.7	428.9	431.0	432.1
13°	422.5	424.3	426.3	428.3	429.5	431.2
13.5°	420.5	422.9	425.3	427.0	429.0	430.3
14°	419.8	422.0	423.6	426.3	427.8	429.0
14.5°	417.8	420.3	422.7	424.5	426.8	428.3
15°	417.2	419.2	421.2	423.6	425.2	427.0
15.5°	415.2	417.5	420.5	422.0	424.4	425.9
16°	414.1	416.1	418.2	421.3	422.9	424.7
16.5°	412.0	414.8	417.4	419.6	422.1	423.7
17°	410.7	412.9	415.4	418.6	420.2	422.2
17.5°	409.0	412.2	414.6	416.8	419.0	421.4
18°	407.4	409.8	412.1	415.5	417.5	419.4
18.5°	405.8	408.6	411.2	413.6	416.6	418.5
19°	403.9	406.6	409.3	412.6	414.5	416.9
19.5°	402.6	405.2	407.7	410.7	413.5	415.5
20°	400.3	403.0	405.7	409.4	411.6	413.5
20.5°	399.2	401.4	404.2	407.5	410.5	412.6
21°	396.7	400.1	402.6	406.0	408.2	410.8
21.5°	395.1	397.5	400.3	404.0	407.3	409.3
22°	392.6	396.2	399.1	402.4	405.1	407.4

TEST NUMBER: P855580
 CATALOG NUMBER: HLCE6129FS1EWH-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	391.4	394.1	396.8	400.6	403.6	406.1
23°	388.7	392.0	395.5	398.9	401.7	404.0
23.5°	387.2	390.1	392.9	397.0	400.3	402.7
24°	385.2	388.1	391.8	395.1	398.2	400.6
24.5°	382.9	386.5	389.2	392.9	396.7	398.9
25°	381.0	383.9	387.8	391.3	394.1	397.1
25.5°	378.9	381.9	385.3	389.1	392.8	395.4
26°	376.6	380.2	383.5	387.3	390.4	393.3
26.5°	374.4	377.2	381.2	385.2	389.1	391.3
27°	372.4	375.7	379.2	383.0	386.2	389.4
27.5°	369.6	373.2	376.9	381.1	384.7	387.6
28°	368.0	370.8	374.8	378.8	382.4	384.9
28.5°	365.1	369.0	372.8	376.9	380.6	383.7
29°	363.3	366.4	370.0	374.3	377.9	381.1
29.5°	360.1	364.4	368.3	372.9	376.3	379.1
30°	358.5	361.3	365.8	369.9	373.9	376.7
30.5°	355.8	359.5	363.5	368.1	371.8	374.9
31°	353.4	357.1	360.8	365.5	369.1	372.4
31.5°	350.7	354.2	358.9	363.5	367.3	370.5
32°	348.4	352.2	356.4	360.5	364.7	367.7
32.5°	346.0	349.2	353.8	359.0	362.8	365.8
33°	343.2	346.8	351.3	355.9	359.9	363.3
33.5°	341.1	344.4	348.8	354.0	357.8	361.1
34°	337.9	341.7	346.5	350.7	355.2	358.3
34.5°	335.6	339.6	343.7	349.1	352.8	356.2
35°	333.0	336.4	341.4	345.8	350.0	353.8
35.5°	330.0	334.2	338.3	343.7	348.0	351.3
36°	327.3	331.3	336.0	340.7	345.1	348.5
36.5°	324.6	328.6	333.0	338.3	343.0	346.4
37°	322.2	325.9	330.4	335.7	339.8	343.7
37.5°	319.0	323.1	327.6	333.0	337.7	341.2
38°	316.8	320.5	325.1	330.3	334.5	338.3
38.5°	313.4	317.6	322.2	327.4	332.0	336.1
39°	310.7	314.5	319.4	325.3	329.0	333.2
39.5°	307.9	312.1	317.0	322.0	326.7	330.8
40°	305.1	308.7	313.8	319.5	323.8	327.6
40.5°	302.1	306.4	311.1	316.5	321.1	325.2
41°	299.0	303.0	308.3	314.0	318.1	322.3
41.5°	296.4	300.6	305.6	310.7	315.6	319.7
42°	293.1	297.0	302.1	308.5	312.5	316.4
42.5°	290.5	294.3	299.7	305.2	309.9	314.1
43°	287.0	291.6	296.2	302.5	306.7	311.0
43.5°	284.3	288.2	293.8	299.1	304.0	308.4
44°	281.0	285.5	290.3	296.6	300.9	305.0
44.5°	278.2	282.4	287.6	293.1	298.2	302.4

TEST NUMBER: P855580
 CATALOG NUMBER: HLCE6129FS1EWH-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	274.7	279.1	284.3	290.7	294.8	299.5
45.5°	271.6	276.2	281.3	287.2	292.3	296.3
46°	268.7	272.9	278.2	284.3	289.0	293.3
46.5°	265.5	270.1	275.0	281.2	286.4	290.5
47°	262.5	266.5	272.4	278.3	282.7	287.4
47.5°	259.2	263.5	268.8	275.0	280.0	284.5
48°	256.2	260.6	266.0	272.0	276.7	281.0
48.5°	252.5	256.9	262.6	269.1	273.7	278.4
49°	249.8	254.0	259.7	265.7	270.3	274.9
49.5°	246.2	250.7	256.1	262.6	267.6	272.0
50°	243.2	247.4	253.1	259.5	264.1	268.5
50.5°	239.7	244.1	249.8	256.3	261.3	265.9
51°	236.6	240.8	246.6	252.7	257.3	262.3
51.5°	232.8	237.9	243.0	249.9	254.6	259.4
52°	229.6	233.9	239.9	246.3	251.1	255.7
52.5°	226.2	231.1	236.7	243.3	248.2	252.9
53°	222.9	227.5	233.1	239.4	244.5	249.5
53.5°	219.6	224.1	229.9	236.9	241.5	246.4
54°	216.1	220.7	226.5	232.8	238.0	242.8
54.5°	212.9	217.3	223.0	230.1	234.7	239.7
55°	209.2	214.1	219.5	226.2	231.0	236.1
55.5°	206.2	210.5	216.3	223.3	228.1	233.1
56°	202.4	207.3	212.7	219.5	224.5	229.5
56.5°	199.1	203.8	209.3	216.4	221.1	226.5
57°	195.4	200.0	205.7	212.7	217.7	222.8
57.5°	192.2	196.8	202.3	209.3	214.1	219.6
58°	188.2	193.1	199.0	205.9	210.7	215.8
58.5°	185.0	189.8	195.2	202.4	207.4	212.6
59°	181.3	186.1	191.9	198.9	203.7	209.2
59.5°	177.7	182.8	188.2	195.5	200.3	205.7
60°	174.3	179.2	185.0	192.0	196.6	202.2
60.5°	170.6	175.4	181.2	188.3	193.4	198.7
61°	167.2	172.0	177.9	185.0	189.6	195.2
61.5°	163.5	168.4	174.0	181.3	186.2	191.5
62°	160.1	165.1	170.7	177.8	182.8	188.1
62.5°	156.2	161.3	166.8	174.2	179.2	184.6
63°	153.0	157.6	163.6	170.7	175.5	181.2
63.5°	149.1	154.3	159.9	167.0	172.1	177.3
64°	145.5	150.4	156.4	163.6	168.4	173.9
64.5°	141.9	147.0	152.6	159.8	164.9	170.2
65°	138.3	143.5	149.0	156.4	161.3	166.8
65.5°	134.7	139.6	145.5	152.7	157.6	163.2
66°	131.0	136.2	141.8	149.1	154.3	159.8
66.5°	127.5	132.5	138.4	145.4	150.5	155.8
67°	123.9	129.0	134.6	141.9	147.0	152.5

TEST NUMBER: P855580
 CATALOG NUMBER: HLCE6129FS1EWH-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	120.5	125.4	131.1	138.4	143.2	148.7
68°	116.7	121.7	127.4	134.7	139.7	145.3
68.5°	113.3	118.3	124.0	131.0	136.0	141.5
69°	109.6	114.6	120.3	127.5	132.6	138.0
69.5°	106.3	111.2	117.0	124.0	128.9	134.3
70°	102.8	107.7	113.0	120.3	125.4	130.9
70.5°	99.3	104.0	109.6	117.0	121.6	127.2
71°	95.8	100.7	106.2	113.2	118.1	123.6
71.5°	92.3	97.1	102.7	109.8	114.7	120.0
72°	89.0	93.7	99.1	106.2	111.0	116.5
72.5°	85.6	90.2	95.7	102.9	107.7	113.0
73°	82.3	86.8	92.2	99.3	104.1	109.3
73.5°	78.9	83.6	88.7	95.9	100.7	106.0
74°	75.8	80.1	85.5	92.2	97.0	102.5
74.5°	72.5	76.9	82.0	89.0	93.8	99.0
75°	69.3	73.7	78.8	85.5	90.2	95.5
75.5°	66.1	70.4	75.4	82.3	87.0	92.1
76°	63.1	67.3	72.3	78.9	83.6	88.7
76.5°	60.1	64.1	69.1	75.7	80.3	85.4
77°	57.0	61.1	65.9	72.5	77.0	82.0
77.5°	54.1	58.1	62.8	69.2	73.8	78.7
78°	51.2	55.2	59.9	66.3	70.6	75.4
78.5°	48.5	52.3	56.9	63.1	67.3	72.3
79°	45.8	49.4	54.0	60.2	64.4	69.1
79.5°	43.1	46.7	51.1	57.0	61.4	65.9
80°	40.5	44.0	48.3	54.2	58.4	63.0
80.5°	38.0	41.4	45.6	51.3	55.4	59.9
81°	35.6	38.9	43.0	48.6	52.5	56.8
81.5°	33.2	36.3	40.4	45.9	49.7	54.1
82°	31.0	34.1	37.8	43.2	47.1	51.1
82.5°	28.8	32.2	35.7	40.6	44.3	48.5
83°	26.7	30.0	33.4	38.2	41.8	45.7
83.5°	24.7	27.9	31.2	36.0	39.3	43.1
84°	22.9	25.8	29.1	33.8	36.6	40.5
84.5°	21.0	23.6	26.8	31.6	34.5	38.1
85°	19.3	21.7	24.8	29.4	32.4	35.9
85.5°	17.7	20.0	23.0	27.2	30.3	33.8
86°	16.2	18.3	21.2	25.2	28.1	31.5
86.5°	14.7	16.7	19.5	23.2	26.1	29.3
87°	13.3	15.2	17.8	21.5	24.2	27.2
87.5°	12.0	13.8	16.3	19.7	22.3	25.1
88°	10.9	12.5	14.8	18.1	20.6	23.2
88.5°	9.9	11.3	13.4	16.5	18.9	21.4
89°	8.9	10.1	12.1	15.1	17.3	19.7
89.5°	8.1	9.1	11.0	13.7	15.8	18.0

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


NVLAP Lab Code: 200050-0



TEST NUMBER: P855580
CATALOG NUMBER: HLCE6129FS1EWH-3500K

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)