

LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P1219806

Luminaire Tested: HLC6FS1E-24P-3500K

Issue Date: 12/22/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219806
Test Lab: INNOVATION CENTER
Issue Date: 12/22/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: HLC6FS1E-24P-3500K
Description: 6" Surface Mount LED Disk Light

Light Source:
Ballast/Driver: -

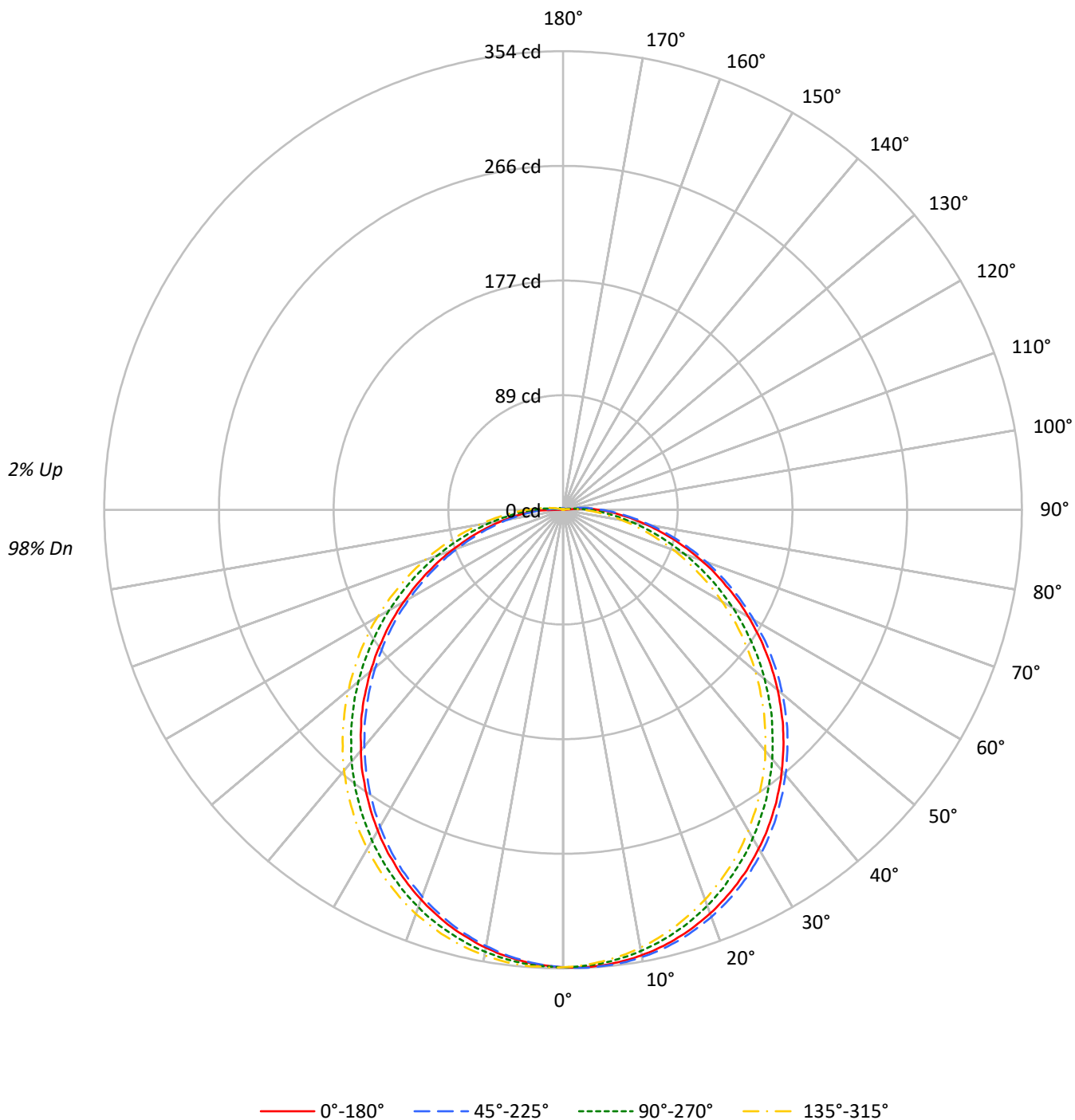
Summary

Lumens per Lamp: 939.5 (1 lamp)
Luminaire Lumens: 1050.0 lumens
Efficiency: 111.8%
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 15.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: >0.9
Total Harmonic Distortion (THDi): <20
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1219806
CATALOG NUMBER: HLC6FS1E-24P-3500K

Luminous Intensity Polar Plot



TEST NUMBER: P1219806

CATALOG NUMBER: HLC6FS1E-24P-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	33.4	3.2	3.6
10°-20°	95.2	9.1	10.1
20°-30°	143.4	13.7	15.3
30°-40°	171.5	16.3	18.3
40°-50°	176.9	16.9	18.8
50°-60°	160.4	15.3	17.1
60°-70°	126.2	12.0	13.4
70°-80°	82.5	7.9	8.8
80°-90°	40.9	3.9	4.4
90°-100°	12.6	1.2	1.3
100°-110°	2.6	0.2	0.3
110°-120°	1.3	0.1	0.1
120°-130°	1.0	0.1	0.1
130°-140°	0.8	0.1	0.1
140°-150°	0.6	0.1	0.1
150°-160°	0.3	0.0	0.0
160°-170°	0.1	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	272.0	25.9	29.0
0°-40°	443.5	42.2	47.2
0°-60°	780.8	74.4	83.1
0°-90°	1030.5	98.1	109.7
90°-120°	16.6	1.6	1.8
90°-150°	19.0	1.8	2.0
90°-180°	20.0	1.9	2.1
0°-180°	1050.0	100.0	111.8

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	353	353	353	353	353	
5°	353	351	350	351	353	34
15°	342	337	333	338	342	97
25°	318	310	304	312	318	147
35°	283	273	265	275	283	177
45°	240	228	219	230	240	185
55°	191	177	168	181	191	171
65°	139	125	116	129	139	138
75°	88	75	68	79	88	93
85°	44	34	29	38	44	41
90°	28	20	0	23	28	15
95°	0	10	0	12	0	3
105°	0	2	0	3	0	0
115°	0	3	0	2	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	1	0	0	0
155°	0	0	1	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P1219806

CATALOG NUMBER: HLC6FS1E-24P-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	353.1	353.1	353.1	353.1	353.1	353.1	353.1	353.1	353.1	353.1	353.1
1°	353.3	353.4	353.4	353.4	352.9	352.9	352.8	352.7	352.7	352.6	352.5
2°	353.4	353.7	353.7	353.9	352.7	352.5	352.3	352.2	352.2	351.9	352.0
3°	353.4	353.7	353.9	354.2	352.2	352.1	351.5	351.7	351.6	351.2	351.2
4°	353.1	353.7	353.8	354.2	351.8	351.4	350.7	350.7	350.9	350.3	350.4
5°	352.9	353.6	353.5	354.1	351.2	350.5	349.9	349.9	349.9	349.3	349.2
6°	352.4	353.2	353.3	353.9	350.4	349.5	348.7	348.8	348.8	348.1	348.0
7°	351.7	352.7	352.9	353.6	349.3	348.5	347.7	347.7	347.5	346.5	346.7
8°	351.0	352.1	352.3	353.0	348.3	347.4	346.3	346.2	346.3	345.1	345.4
9°	350.2	351.3	351.5	352.5	347.2	346.0	344.9	344.8	344.8	343.4	343.5
10°	349.1	350.3	350.5	351.7	345.8	344.6	343.2	343.2	343.2	341.7	341.9
11°	348.0	349.4	349.6	350.9	344.2	343.0	341.5	341.2	341.6	340.0	340.0
12°	346.7	348.3	348.5	350.0	342.7	341.2	339.6	339.4	339.5	337.9	338.0
13°	345.3	347.0	347.2	348.9	340.9	339.1	337.6	337.3	337.5	335.7	335.8
14°	343.8	345.6	345.7	347.7	339.1	337.2	335.4	335.3	335.6	333.6	333.7
15°	341.9	344.1	344.3	346.2	336.9	335.1	333.3	333.0	333.4	331.2	331.3
16°	340.2	342.2	342.6	344.3	335.1	333.1	330.7	330.8	331.0	328.9	328.7
17°	338.3	340.4	340.5	342.7	332.8	330.6	328.3	328.3	328.3	326.0	326.1
18°	336.1	338.5	338.6	340.9	330.2	327.9	325.7	325.4	325.6	323.2	323.4
19°	333.9	336.4	336.6	338.9	327.9	325.3	322.8	323.0	323.2	320.6	320.7
20°	331.6	334.3	334.5	336.9	325.3	322.4	320.2	320.0	320.2	317.8	317.7
21°	329.3	332.0	332.0	334.7	322.6	319.7	317.3	317.3	317.3	314.5	314.3
22°	326.5	329.6	329.6	332.5	319.5	316.8	314.0	314.0	314.2	311.2	311.4
23°	323.8	326.7	327.1	329.9	316.8	313.9	310.9	310.9	311.0	307.8	307.9
24°	321.1	324.1	324.4	327.4	313.3	310.3	307.5	307.6	307.8	304.7	304.7
25°	318.2	321.3	321.5	324.7	310.2	307.0	304.4	304.2	304.3	301.3	301.1
26°	315.1	318.6	318.6	322.0	306.9	304.0	300.9	300.8	300.6	297.5	297.7
27°	312.3	315.6	315.8	318.8	303.5	300.3	297.4	297.2	297.5	293.9	294.0
28°	308.6	312.2	312.3	315.9	300.3	297.1	293.7	293.6	293.5	290.1	290.1
29°	305.4	309.1	309.1	312.8	296.6	293.0	289.6	289.6	289.9	286.3	286.3
30°	301.9	305.9	305.9	309.4	292.6	289.4	285.9	285.7	285.9	282.2	282.3
31°	298.5	302.3	302.5	306.2	289.0	285.5	281.7	281.5	281.8	278.0	278.0
32°	295.1	298.8	298.8	302.8	285.0	281.3	277.8	277.7	277.9	274.2	274.2
33°	291.1	295.3	295.2	299.3	280.9	277.5	273.9	273.6	273.8	269.6	269.8
34°	287.3	291.6	291.6	295.3	277.1	273.5	269.5	269.5	269.4	265.6	265.7
35°	283.4	287.3	287.4	291.7	273.2	269.0	264.9	265.1	265.2	261.1	261.2
36°	279.6	283.6	283.5	287.9	268.7	264.8	260.7	260.5	260.7	257.0	256.6
37°	275.3	279.6	279.6	283.7	264.4	260.3	256.5	256.3	256.6	252.4	252.6
38°	271.2	275.3	275.6	279.7	259.9	256.0	251.8	251.8	252.3	248.1	247.7
39°	267.2	271.3	271.1	275.7	255.6	251.6	247.7	247.5	247.5	243.0	243.2
40°	262.5	267.2	267.0	271.7	251.2	246.9	242.8	242.8	242.6	238.3	238.5
41°	258.2	262.5	262.8	267.2	246.4	242.1	237.8	237.7	237.8	233.4	233.5
42°	253.8	258.3	258.2	263.0	241.7	237.4	233.4	233.3	233.4	228.8	229.0
43°	249.4	253.9	253.8	258.6	236.9	232.9	228.5	228.7	228.4	224.2	224.3
44°	244.7	249.5	249.3	254.3	232.3	227.8	223.8	223.7	224.1	219.2	219.1

TEST NUMBER: P1219806

CATALOG NUMBER: HLC6FS1E-24P-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	240.2	245.0	244.9	249.8	227.9	223.4	218.9	218.9	218.9	214.6	214.2
46°	235.6	240.1	240.4	244.9	223.0	218.2	213.7	213.9	214.3	209.5	209.1
47°	230.4	235.6	235.2	240.3	217.7	213.4	208.5	208.8	209.0	204.3	204.3
48°	225.7	230.9	230.5	235.4	213.0	208.3	203.7	203.5	203.8	199.5	199.0
49°	221.0	225.7	225.8	230.7	207.8	203.1	198.6	198.8	199.0	194.3	194.2
50°	216.2	220.9	221.1	226.0	203.1	198.5	193.7	193.7	194.1	189.3	189.0
51°	211.0	216.2	215.9	221.2	197.9	193.4	188.5	188.8	188.6	184.2	183.7
52°	206.1	211.4	211.2	215.9	193.0	188.0	183.3	183.5	183.8	178.4	178.4
53°	201.2	206.0	206.2	211.1	187.9	183.1	177.9	178.2	178.4	173.5	173.5
54°	196.2	201.0	200.8	206.2	182.4	177.8	172.8	173.3	172.8	167.9	168.5
55°	190.8	196.2	195.9	200.7	177.4	172.4	168.0	167.7	168.1	163.4	163.0
56°	185.9	191.2	190.9	195.9	172.1	167.3	162.8	162.9	162.8	157.9	158.0
57°	180.9	185.7	185.9	190.8	166.9	162.4	157.7	157.4	157.8	152.6	152.7
58°	175.3	180.6	180.2	185.9	161.9	156.9	152.1	152.5	152.2	147.1	147.3
59°	170.2	175.6	175.2	180.4	156.6	151.5	146.6	147.0	147.3	142.2	141.8
60°	165.2	170.0	170.1	175.2	151.4	146.0	141.7	141.5	141.9	136.9	136.8
61°	160.0	164.9	164.6	170.1	146.0	141.1	136.5	136.7	136.5	132.0	131.6
62°	155.0	159.8	159.4	165.1	140.5	135.7	131.3	131.6	131.5	126.6	126.5
63°	149.6	154.7	154.3	159.9	135.4	130.9	126.2	126.5	126.4	121.3	121.4
64°	144.4	149.2	148.8	154.2	130.4	125.4	120.8	121.3	121.0	116.1	116.1
65°	138.7	144.0	143.6	149.3	125.2	120.3	115.4	115.9	116.2	111.2	111.1
66°	133.8	138.9	138.5	144.2	119.7	114.9	110.5	110.4	110.7	105.8	105.7
67°	128.6	133.4	133.4	138.5	114.9	110.0	105.4	105.7	106.0	101.2	101.1
68°	123.8	128.2	128.3	133.5	109.4	104.6	100.5	100.8	101.1	96.3	96.3
69°	118.3	123.3	122.9	128.4	104.7	100.0	95.6	95.9	96.3	91.4	91.3
70°	113.2	118.3	117.9	123.4	99.7	95.3	90.5	90.8	91.1	86.4	86.2
71°	108.0	112.7	112.9	117.9	94.8	90.2	85.8	86.2	86.0	81.3	81.2
72°	103.2	107.6	107.8	112.8	89.6	85.3	80.8	81.2	81.5	76.9	76.8
73°	97.9	102.8	102.4	107.7	84.6	80.2	76.1	76.4	76.8	72.5	72.1
74°	93.1	98.0	97.6	102.4	80.1	75.8	71.6	72.0	72.2	67.7	67.7
75°	88.5	92.6	92.7	97.5	75.3	71.4	67.1	67.5	67.8	63.3	63.2
76°	83.3	88.0	87.5	92.7	70.7	66.7	62.9	63.3	63.2	58.8	58.7
77°	78.6	83.2	82.9	88.0	66.3	62.2	58.4	58.9	58.7	54.8	54.3
78°	74.1	78.6	78.1	82.8	61.7	57.8	54.5	54.5	54.7	50.6	50.5
79°	69.6	73.5	73.6	78.1	57.7	53.9	50.3	50.7	50.5	46.8	46.8
80°	65.2	69.1	69.0	73.5	53.3	49.7	46.4	46.8	46.9	43.1	42.8
81°	60.7	64.7	64.3	69.0	49.1	45.8	42.8	43.1	42.9	39.5	39.1
82°	56.5	60.5	60.1	64.7	45.5	42.2	39.0	39.4	39.5	35.8	35.7
83°	52.5	56.0	56.0	60.1	41.9	38.7	35.5	35.9	35.9	32.3	32.2
84°	48.6	51.9	51.5	55.9	38.3	35.0	32.3	32.3	32.3	29.3	29.1
85°	44.5	48.0	47.6	51.8	34.5	31.5	29.0	29.3	29.4	26.5	26.2
86°	40.9	44.2	43.9	47.5	31.4	28.7	26.2	26.5	26.4	23.8	23.5
87°	37.6	40.3	40.3	43.9	28.5	25.9	23.5	23.7	23.7	21.0	20.9
88°	34.3	37.0	36.6	40.2	25.6	23.2	20.9	21.1	20.9	18.7	18.5
89°	30.8	33.7	33.3	36.8	22.9	20.8	18.5	18.7	11.1	16.3	16.2

TEST NUMBER: P1219806

CATALOG NUMBER: HLC6FS1E-24P-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	27.9	30.6	30.2	33.2	20.4	18.2	16.3	16.3	0.0	14.3	14.3
91°	25.1	27.4	27.3	30.1	17.9	15.9	14.3	14.4	0.0	12.5	12.4
92°	22.6	24.7	24.6	27.2	15.8	14.0	12.4	12.6	0.0	10.9	10.8
93°	20.0	22.1	21.8	24.4	13.7	12.2	10.9	10.9	0.0	9.3	9.2
94°	10.7	19.8	19.5	21.9	11.9	10.6	9.3	9.4	0.0	7.8	7.8
95°	0.0	17.4	17.2	19.3	10.3	9.1	8.0	8.0	0.0	6.6	6.6
96°	0.0	15.3	15.0	17.1	8.9	7.8	6.8	6.7	0.0	5.5	5.6
97°	0.0	13.5	13.2	15.0	7.6	6.6	5.6	5.7	0.0	4.6	4.7
98°	0.0	11.8	11.5	12.9	6.5	5.6	4.7	4.7	0.0	3.7	4.0
99°	0.0	10.3	10.0	11.3	5.7	4.7	3.9	3.8	0.3	2.8	3.3
100°	0.0	8.8	8.5	9.8	4.8	3.9	3.1	3.0	0.4	2.3	2.7
101°	0.0	7.6	7.4	8.4	4.2	3.3	2.3	2.2	0.3	1.7	2.3
102°	0.0	6.4	6.2	7.4	3.6	2.7	1.7	1.7	0.3	1.3	1.9
103°	0.0	5.3	5.3	6.3	2.9	2.1	1.2	1.2	0.3	0.8	1.8
104°	0.0	4.4	4.4	5.6	2.4	1.8	0.9	0.8	0.3	0.6	1.7
105°	0.5	3.6	3.7	4.7	2.2	1.6	0.5	0.4	0.3	0.5	1.6
106°	0.2	2.8	3.0	4.1	2.1	1.4	0.5	0.4	0.4	0.7	1.6
107°	0.4	2.3	2.5	3.3	2.0	1.3	0.5	0.4	0.3	0.7	1.6
108°	0.4	1.7	2.1	2.6	1.9	1.4	0.4	0.4	0.3	0.7	1.8
109°	0.3	1.3	1.8	2.3	2.0	1.5	0.6	0.4	0.3	0.8	1.9
110°	0.2	0.8	1.6	2.1	2.2	1.5	0.7	0.4	0.3	0.9	2.0
111°	0.3	0.6	1.4	2.0	2.3	1.6	0.6	0.4	0.4	0.9	2.0
112°	0.2	0.5	1.3	2.0	2.4	1.7	0.8	0.5	0.4	0.9	1.9
113°	0.2	0.4	1.3	2.1	2.4	1.7	0.8	0.5	0.3	1.0	1.9
114°	0.2	0.4	1.2	2.2	2.5	1.8	0.7	0.5	0.4	1.0	1.9
115°	0.3	0.4	1.1	2.3	2.7	1.9	0.7	0.4	0.4	1.1	1.9
116°	0.3	0.4	1.1	2.3	2.7	1.9	0.8	0.5	0.4	1.0	1.9
117°	0.2	0.5	1.0	2.2	2.8	2.0	0.8	0.5	0.4	1.2	2.0
118°	0.2	0.5	1.0	2.1	2.9	2.2	0.7	0.5	0.5	1.1	2.0
119°	0.3	0.4	1.1	2.0	2.9	2.1	0.7	0.4	0.5	1.2	1.9
120°	0.3	0.5	1.0	2.1	2.2	2.1	0.7	0.5	0.5	1.2	2.0
121°	0.3	0.6	1.0	2.1	0.9	2.1	0.6	0.6	0.5	1.2	2.0
122°	0.4	0.6	0.9	2.2	0.3	2.0	0.7	0.6	0.5	1.2	1.9
123°	0.3	0.6	0.9	2.1	0.3	1.9	0.7	0.6	0.5	1.2	1.9
124°	0.3	0.6	0.9	2.1	0.3	1.9	0.6	0.6	0.5	1.1	1.9
125°	0.4	0.6	0.8	2.1	0.2	1.8	0.7	0.7	0.5	1.1	1.8
126°	0.3	0.6	0.8	2.1	0.3	1.7	0.7	0.7	0.5	1.1	1.9
127°	0.3	0.5	0.8	2.1	0.3	1.6	0.6	0.6	0.5	1.2	1.8
128°	0.2	0.6	0.8	2.0	0.3	1.6	0.7	0.7	0.6	1.1	1.8
129°	0.3	0.6	0.8	1.9	0.3	1.5	0.7	0.7	0.5	1.1	1.7
130°	0.3	0.6	0.8	1.9	0.3	1.7	0.7	0.6	0.6	0.9	1.7
131°	0.3	0.6	0.9	1.8	0.3	1.9	0.7	0.7	0.6	1.0	1.6
132°	0.3	0.6	0.7	1.7	0.2	1.2	0.7	0.8	0.6	0.9	1.8
133°	0.3	0.5	0.9	1.6	0.3	1.2	0.8	0.8	0.6	0.9	2.0
134°	0.3	0.6	0.9	1.6	0.3	1.2	0.7	0.8	0.6	0.9	2.1

TEST NUMBER: P1219806

CATALOG NUMBER: HLC6FS1E-24P-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.3	0.6	0.9	1.5	0.3	1.2	0.7	0.8	0.5	0.8	1.9
136°	0.3	0.6	0.7	1.5	0.3	1.1	0.7	0.7	0.6	0.9	1.9
137°	0.3	0.6	0.9	1.4	0.4	1.1	0.7	0.7	0.6	0.8	2.2
138°	0.3	0.6	1.1	1.4	0.3	1.3	0.8	0.8	0.5	0.9	3.3
139°	0.3	0.5	1.2	1.4	0.3	1.3	0.8	0.7	0.5	0.9	2.5
140°	0.3	0.6	1.0	1.3	0.4	1.1	0.8	0.8	0.6	0.9	1.7
141°	0.3	0.6	1.0	1.3	0.3	1.2	0.8	0.7	0.6	0.9	2.0
142°	0.3	0.6	0.9	1.3	0.4	1.1	0.8	0.7	0.6	0.9	1.9
143°	0.3	0.6	0.8	1.3	0.4	0.9	0.6	0.7	0.6	0.8	1.6
144°	0.3	0.5	0.9	1.1	0.4	1.1	0.8	0.6	0.5	1.0	1.4
145°	0.3	0.6	0.9	1.1	0.4	1.1	0.7	0.7	0.6	0.9	1.4
146°	0.3	0.5	0.8	1.1	0.3	1.0	0.8	0.5	0.6	0.8	1.4
147°	0.3	0.6	0.8	1.0	0.4	1.0	0.7	0.6	0.7	0.8	1.6
148°	0.3	0.6	0.8	1.0	0.4	1.0	0.7	0.7	0.7	0.8	1.5
149°	0.3	0.6	0.9	1.0	0.4	0.9	0.8	0.6	0.7	0.8	1.3
150°	0.3	0.4	0.8	0.9	0.4	0.9	0.7	0.6	0.6	0.8	1.2
151°	0.2	0.6	1.0	1.0	0.4	0.9	0.8	0.6	0.5	0.8	1.1
152°	0.3	0.5	1.3	1.0	0.4	0.8	0.7	0.6	0.7	0.8	1.1
153°	0.2	0.5	0.8	1.0	0.4	0.8	0.6	0.5	0.7	0.8	1.1
154°	0.3	0.5	0.8	0.9	0.4	0.7	0.5	0.5	0.6	0.7	1.0
155°	0.2	0.6	0.7	1.1	0.4	0.8	0.4	0.4	0.7	0.6	0.9
156°	0.3	0.5	0.7	1.0	0.4	0.8	0.3	0.5	0.7	0.7	0.9
157°	0.2	0.5	0.7	0.9	0.4	0.6	0.3	0.5	0.7	0.7	0.9
158°	0.3	0.5	0.6	0.8	0.4	0.6	0.4	0.4	0.6	0.7	0.7
159°	0.2	0.5	0.6	0.7	0.4	0.4	0.3	0.4	0.6	0.6	0.8
160°	0.2	0.5	0.5	0.7	0.4	0.5	0.3	0.4	0.5	0.7	0.9
161°	0.2	0.5	0.5	0.8	0.5	0.4	0.4	0.4	0.6	0.7	0.8
162°	0.3	0.5	0.6	0.7	0.4	0.3	0.3	0.3	0.6	0.7	0.7
163°	0.3	0.5	0.6	0.7	0.4	0.3	0.5	0.3	0.6	0.7	0.7
164°	0.3	0.5	0.6	0.6	0.4	0.3	0.5	0.3	0.6	0.6	0.7
165°	0.2	0.6	0.6	0.5	0.3	0.3	0.4	0.3	0.5	0.6	0.7
166°	0.2	0.5	0.6	0.5	0.1	0.2	0.4	0.3	0.5	0.6	0.6
167°	0.2	0.5	0.5	0.4	0.3	0.3	0.4	0.3	0.5	0.6	0.6
168°	0.2	0.4	0.5	0.5	0.3	0.3	0.4	0.3	0.5	0.6	0.5
169°	0.3	0.4	0.5	0.5	0.2	0.3	0.3	0.3	0.5	0.5	0.6
170°	0.3	0.4	0.5	0.3	0.2	0.3	0.2	0.3	0.4	0.4	0.4
171°	0.2	0.3	0.5	0.4	0.2	0.3	0.3	0.3	0.4	0.3	0.3
172°	0.2	0.3	0.5	0.4	0.2	0.3	0.3	0.2	0.3	0.2	0.3
173°	0.1	0.2	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2
174°	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
175°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
176°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
177°	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2
178°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
179°	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



TEST NUMBER: P1219806
CATALOG NUMBER: HLC6FS1E-24P-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

TEST NUMBER: P1219806

CATALOG NUMBER: HLC6FS1E-24P-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	353.1	353.1	353.1	353.1	353.1	353.1
1°	352.2	352.9	353.2	353.4	353.3	353.3
2°	351.5	352.7	353.2	353.5	353.4	353.4
3°	350.7	352.5	353.1	353.0	353.2	353.4
4°	349.6	352.1	352.9	353.3	353.1	353.1
5°	348.4	351.4	352.4	353.0	352.7	352.9
6°	347.1	350.6	351.8	352.4	352.3	352.4
7°	345.5	349.8	350.8	351.9	351.7	351.7
8°	343.9	348.7	350.0	351.2	351.0	351.0
9°	342.0	347.6	349.0	350.2	350.2	350.2
10°	340.2	346.3	347.8	349.2	349.0	349.1
11°	338.2	345.1	346.5	348.1	347.8	348.0
12°	336.0	343.5	345.1	346.9	346.6	346.7
13°	333.9	341.7	343.5	345.4	345.1	345.3
14°	331.7	339.9	341.9	343.8	343.6	343.8
15°	329.0	338.0	340.1	342.0	341.9	341.9
16°	326.3	336.0	338.1	340.4	340.2	340.2
17°	323.7	333.8	336.1	338.2	338.2	338.3
18°	320.5	331.6	333.9	336.2	336.0	336.1
19°	317.8	329.2	331.4	334.0	333.9	333.9
20°	314.6	326.3	328.9	331.9	331.6	331.6
21°	311.7	323.7	326.5	329.3	328.9	329.3
22°	308.2	320.9	323.8	326.8	326.5	326.5
23°	305.0	318.1	321.0	324.1	323.8	323.8
24°	301.5	314.8	318.2	321.1	321.0	321.1
25°	297.6	311.8	315.2	318.3	317.8	318.2
26°	294.1	308.6	311.8	315.3	314.9	315.1
27°	290.1	305.2	308.7	312.0	311.9	312.3
28°	286.3	301.8	305.5	308.7	308.4	308.6
29°	282.2	298.3	302.0	305.6	305.3	305.4
30°	278.3	294.8	298.3	302.3	301.9	301.9
31°	274.4	290.7	294.7	298.4	298.4	298.5
32°	269.9	287.0	291.1	295.0	294.9	295.1
33°	265.6	283.2	287.0	291.3	290.9	291.1
34°	261.1	279.3	283.3	287.5	287.2	287.3
35°	256.8	275.1	279.4	283.3	283.1	283.4
36°	252.2	271.0	275.4	279.4	279.2	279.6
37°	248.0	266.9	271.0	275.4	275.2	275.3
38°	243.4	262.3	266.9	271.4	271.1	271.2
39°	238.7	258.1	262.6	266.9	266.7	267.2
40°	233.7	253.7	258.0	262.8	262.5	262.5
41°	229.1	249.3	253.6	258.5	258.3	258.2
42°	224.1	244.2	249.2	254.2	254.0	253.8
43°	219.4	239.8	244.8	249.2	248.9	249.4
44°	214.3	235.3	239.7	244.8	244.5	244.7

TEST NUMBER: P1219806

CATALOG NUMBER: HLC6FS1E-24P-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	209.2	230.3	235.2	240.2	240.0	240.2
46°	203.9	225.6	230.6	235.3	235.1	235.6
47°	199.1	220.8	225.4	230.7	230.4	230.4
48°	194.1	216.1	220.7	225.9	225.8	225.7
49°	189.1	210.8	215.9	221.2	220.9	221.0
50°	183.9	206.0	211.1	215.9	215.8	216.2
51°	178.5	201.0	205.8	211.2	211.1	211.0
52°	173.5	196.2	201.0	205.8	206.2	206.1
53°	168.1	190.7	196.1	200.9	200.7	201.2
54°	163.2	185.8	191.1	196.0	195.8	196.2
55°	157.8	180.8	185.7	191.1	190.8	190.8
56°	152.9	175.3	180.7	185.7	185.9	185.9
57°	147.4	170.2	175.6	180.7	180.5	180.9
58°	141.9	165.1	170.0	175.7	175.5	175.3
59°	137.0	160.0	165.0	170.6	170.4	170.2
60°	131.8	155.0	159.9	165.0	165.4	165.2
61°	126.7	149.4	154.8	159.8	160.3	160.0
62°	121.5	144.3	149.3	154.7	154.6	155.0
63°	116.1	139.3	144.2	149.8	149.7	149.6
64°	110.6	133.8	139.1	144.2	144.6	144.4
65°	105.8	128.7	134.1	139.1	138.9	138.7
66°	101.1	123.8	128.6	134.1	133.9	133.8
67°	95.9	118.3	123.7	128.9	128.8	128.6
68°	90.9	113.2	118.6	123.7	124.0	123.8
69°	85.8	108.2	113.6	118.6	118.5	118.3
70°	81.3	103.4	108.0	113.5	113.4	113.2
71°	76.4	98.0	103.2	108.4	108.3	108.0
72°	72.0	93.3	98.4	103.2	103.1	103.2
73°	67.6	88.6	93.6	98.4	98.2	97.9
74°	63.2	83.5	88.5	93.5	93.4	93.1
75°	58.3	78.8	83.8	88.5	88.3	88.5
76°	54.4	74.3	79.1	83.8	83.6	83.3
77°	50.1	69.8	74.2	79.0	78.9	78.6
78°	46.3	65.5	69.7	74.1	74.4	74.1
79°	42.8	60.9	65.3	69.6	69.9	69.6
80°	39.3	56.7	61.2	65.2	65.1	65.2
81°	35.4	52.6	56.6	61.1	61.0	60.7
82°	32.2	48.8	52.5	56.6	56.9	56.5
83°	29.3	44.7	48.7	52.5	52.4	52.5
84°	26.4	41.0	44.9	48.6	48.5	48.6
85°	23.5	37.6	41.3	44.9	44.8	44.5
86°	20.9	34.4	37.7	41.3	41.2	40.9
87°	18.5	30.9	34.4	37.6	37.5	37.6
88°	16.4	27.9	31.2	34.3	34.2	34.3
89°	14.4	25.2	28.0	31.1	31.0	30.8

TEST NUMBER: P1219806

CATALOG NUMBER: HLC6FS1E-24P-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	12.6	22.6	25.2	28.2	28.2	27.9
91°	10.9	20.0	22.7	25.2	25.3	25.1
92°	9.3	17.7	20.0	22.7	22.5	22.6
93°	7.9	15.7	17.8	20.3	20.2	20.0
94°	6.9	13.8	15.7	18.0	17.9	10.7
95°	6.0	12.1	13.9	15.7	15.9	0.0
96°	5.2	10.3	12.1	13.9	13.8	0.0
97°	4.4	9.0	10.6	12.1	12.2	0.0
98°	3.8	7.7	9.1	10.6	10.6	0.0
99°	3.2	6.8	7.8	9.1	9.2	0.0
100°	2.6	5.8	6.7	7.9	7.8	0.0
101°	2.3	5.0	5.6	6.6	6.7	0.0
102°	2.1	4.3	4.8	5.6	5.6	0.0
103°	2.1	3.7	4.0	4.7	4.7	0.0
104°	2.2	3.2	3.3	3.9	3.9	0.0
105°	2.4	2.9	2.8	3.2	3.2	0.5
106°	2.7	2.6	2.3	2.6	2.5	0.2
107°	2.8	2.3	2.0	2.0	1.9	0.4
108°	2.8	2.1	1.7	1.5	1.5	0.4
109°	2.8	1.8	1.5	1.2	1.0	0.3
110°	2.7	1.9	1.3	0.8	0.7	0.2
111°	2.8	2.1	1.2	0.7	0.5	0.3
112°	2.9	2.2	1.3	0.6	0.4	0.2
113°	3.0	2.5	1.4	0.7	0.4	0.2
114°	3.1	2.5	1.5	0.7	0.4	0.2
115°	3.1	2.5	1.6	0.8	0.4	0.3
116°	3.1	2.6	1.7	0.8	0.4	0.3
117°	3.1	2.7	1.7	0.9	0.4	0.2
118°	3.0	2.7	1.7	0.9	0.5	0.2
119°	2.9	2.8	1.8	0.9	0.4	0.3
120°	3.0	2.7	1.8	1.0	0.6	0.3
121°	2.9	1.3	1.9	0.9	0.5	0.3
122°	2.8	0.2	1.9	1.0	0.4	0.4
123°	2.6	0.3	2.0	1.1	0.5	0.3
124°	2.7	0.2	2.0	1.1	0.5	0.3
125°	2.6	0.3	2.1	1.1	0.6	0.4
126°	2.6	0.3	2.1	1.2	0.5	0.3
127°	2.5	0.2	2.1	1.2	0.6	0.3
128°	2.5	0.3	2.1	1.3	0.5	0.2
129°	3.2	0.3	2.1	1.3	0.6	0.3
130°	3.6	0.2	2.2	1.3	0.6	0.3
131°	2.3	0.3	2.2	1.3	0.5	0.3
132°	2.2	0.3	2.6	1.4	0.6	0.3
133°	2.1	0.3	4.3	1.4	0.6	0.3
134°	2.0	0.3	3.4	1.5	0.6	0.3

TEST NUMBER: P1219806

CATALOG NUMBER: HLC6FS1E-24P-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	2.0	0.3	2.4	1.5	0.6	0.3
136°	2.0	0.3	2.3	1.5	0.6	0.3
137°	1.9	0.3	2.3	1.5	0.6	0.3
138°	1.9	0.3	2.2	1.5	0.6	0.3
139°	1.9	0.3	2.2	1.5	0.6	0.3
140°	1.8	0.3	2.2	1.6	0.6	0.3
141°	1.9	0.3	2.3	1.6	0.6	0.3
142°	1.9	0.3	2.6	1.6	0.6	0.3
143°	2.0	0.4	2.4	1.6	0.7	0.3
144°	2.5	0.3	2.4	1.6	0.6	0.3
145°	3.3	0.4	2.8	1.5	0.5	0.3
146°	2.8	0.3	3.4	1.6	0.6	0.3
147°	1.9	0.3	3.2	1.5	0.6	0.3
148°	1.9	0.3	2.7	1.4	0.6	0.3
149°	1.8	0.2	2.1	1.1	0.6	0.3
150°	1.6	0.4	2.0	0.8	0.6	0.3
151°	1.5	0.4	2.0	0.8	0.7	0.2
152°	1.4	0.4	2.0	0.8	0.6	0.3
153°	1.4	0.4	1.9	0.9	0.7	0.2
154°	1.3	0.4	1.8	1.0	0.6	0.3
155°	1.2	0.4	1.8	1.1	0.7	0.2
156°	1.2	0.4	1.8	1.1	0.7	0.3
157°	1.2	0.4	1.6	1.0	0.7	0.2
158°	1.3	0.3	1.6	0.9	0.6	0.3
159°	1.5	0.4	1.6	0.8	0.5	0.2
160°	1.3	0.4	1.3	0.8	0.6	0.2
161°	0.9	0.4	0.8	0.7	0.6	0.2
162°	0.9	0.4	0.7	0.6	0.5	0.3
163°	0.8	0.3	0.5	0.7	0.6	0.3
164°	0.7	0.4	0.5	0.6	0.5	0.3
165°	0.5	0.4	0.4	0.6	0.4	0.2
166°	0.6	0.4	0.4	0.6	0.4	0.2
167°	0.5	0.4	0.4	0.5	0.3	0.2
168°	0.3	0.3	0.4	0.5	0.3	0.2
169°	0.3	0.4	0.3	0.4	0.2	0.3
170°	0.3	0.2	0.3	0.4	0.2	0.3
171°	0.3	0.3	0.3	0.3	0.2	0.2
172°	0.2	0.3	0.3	0.3	0.2	0.2
173°	0.2	0.2	0.3	0.2	0.2	0.1
174°	0.2	0.2	0.2	0.2	0.2	0.2
175°	0.2	0.2	0.2	0.2	0.2	0.2
176°	0.1	0.2	0.2	0.2	0.2	0.2
177°	0.2	0.2	0.2	0.2	0.2	0.2
178°	0.2	0.1	0.2	0.1	0.2	0.2
179°	0.2	0.2	0.1	0.1	0.2	0.2

Cooper Lighting Solutions Photometric Lab
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TEST NUMBER: P1219806
CATALOG NUMBER: HLC6FS1E-24P-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	0.2	0.2	0.2	0.2	0.2	0.2

TEST NUMBER: P1219806

CATALOG NUMBER: HLC6FS1E-24P-3500K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	22.3	23.9	22.7	24.3	24.7	22.0	23.6	22.4	24.0	24.4
	3H	24.4	25.9	24.8	26.2	26.6	24.0	25.4	24.4	25.8	26.2
	4H	25.3	26.7	25.7	27.1	27.5	24.8	26.2	25.2	26.5	27.0
	6H	26.1	27.4	26.6	27.8	28.3	25.5	26.8	25.9	27.2	27.6
	8H	26.5	27.8	27.0	28.2	28.6	25.8	27.0	26.2	27.5	27.9
	12H	26.9	28.1	27.4	28.5	29.0	26.1	27.3	26.6	27.7	28.2
4H	2H	23.0	24.4	23.4	24.8	25.2	22.7	24.1	23.1	24.4	24.9
	3H	25.4	26.5	25.8	27.0	27.4	24.9	26.1	25.3	26.5	27.0
	4H	26.4	27.5	26.9	27.9	28.4	25.9	27.0	26.4	27.4	27.9
	6H	27.4	28.4	27.9	28.9	29.4	26.8	27.8	27.3	28.2	28.7
	8H	27.9	28.8	28.4	29.3	29.8	27.2	28.1	27.7	28.6	29.1
	12H	28.4	29.2	28.9	29.7	30.2	27.6	28.4	28.1	28.9	29.5
8H	4H	26.9	27.8	27.4	28.2	28.7	26.3	27.2	26.8	27.7	28.2
	6H	28.1	28.8	28.6	29.4	29.9	27.5	28.2	28.0	28.7	29.2
	8H	28.7	29.4	29.2	29.9	30.4	28.0	28.7	28.6	29.2	29.8
	12H	29.4	30.0	29.9	30.5	31.1	28.6	29.2	29.2	29.8	30.3
12H	4H	27.0	27.8	27.5	28.3	28.8	26.4	27.2	26.9	27.7	28.2
	6H	28.3	28.9	28.8	29.4	30.0	27.6	28.3	28.2	28.8	29.4
	8H	29.0	29.6	29.5	30.1	30.7	28.3	28.9	28.8	29.4	30.0

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