

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: P1219804

Luminaire Tested: HLC6FS1E-24P-2700K

Issue Date: 12/22/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219804
Test Lab: INNOVATION CENTER
Issue Date: 12/22/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: HLC6FS1E-24P-2700K
Description: 6" Surface Mount LED Disk Light

Light Source:
Ballast/Driver: -

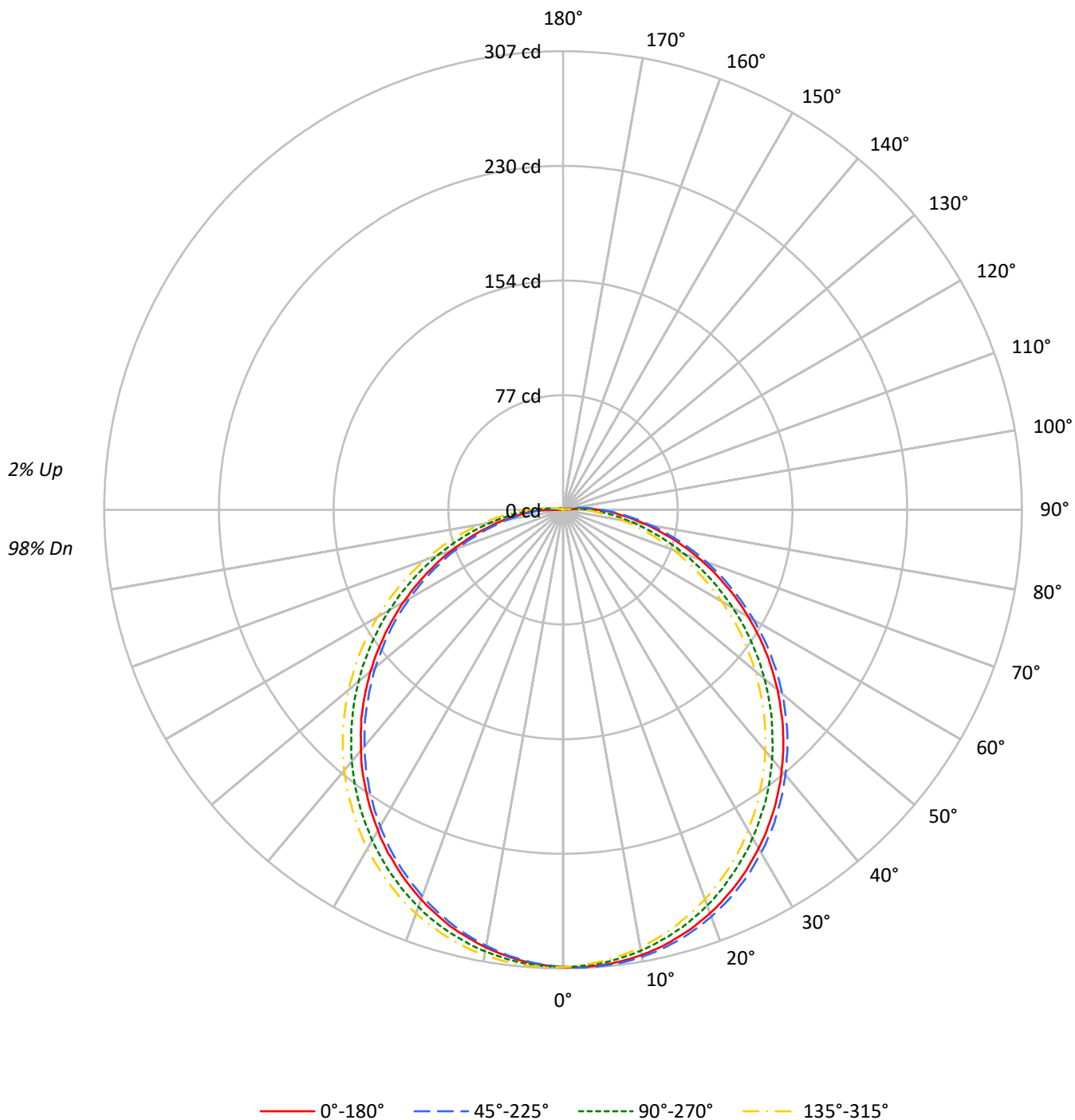
Summary

Lumens per Lamp: 939.5 (1 lamp)
Luminaire Lumens: 910.0 lumens
Efficiency: 96.9%
Efficacy: 62.3 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): 14.6
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

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Luminous Intensity Polar Plot



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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	115	115	115	115	112	112	112	112	107	107	107	102	102	102	97	97	97	97	97	95
1	104	99	94	90	101	97	92	89	92	89	86	88	85	83	84	82	80	80	80	78
2	94	86	79	73	91	84	77	72	80	75	70	77	72	68	73	70	66	66	66	64
3	86	75	67	60	83	73	66	60	70	64	58	67	62	57	65	60	56	56	56	54
4	78	67	58	51	76	65	57	51	62	55	50	60	54	49	58	52	48	48	48	46
5	72	59	50	44	70	58	50	44	56	49	43	54	47	42	52	46	42	42	42	39
6	67	53	45	38	65	52	44	38	50	43	38	49	42	37	47	41	37	37	37	34
7	62	48	40	34	60	48	39	34	46	39	33	44	38	33	43	37	32	32	32	30
8	57	44	36	30	56	43	35	30	42	35	30	41	34	29	39	33	29	29	29	27
9	54	41	33	27	52	40	32	27	39	32	27	37	31	26	36	31	26	26	26	24
10	50	37	30	25	49	37	29	24	36	29	24	35	28	24	34	28	24	24	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16775	16775	16775	16775
5°	16828	16751	16690	16762
10°	16844	16683	16555	16705
15°	16816	16572	16402	16623
20°	16766	16446	16189	16498
25°	16682	16259	15951	16344
30°	16566	16053	15680	16173
35°	16443	15841	15379	15954
40°	16281	15579	15050	15737
45°	16141	15312	14707	15474
50°	15982	15010	14345	15223
55°	15808	14690	13916	14977
60°	15700	14385	13486	14725
65°	15592	14074	13062	14463
70°	15724	13848	12662	14361
75°	16246	13810	12454	14467
80°	17837	14585	12849	15501
85°	24216	18807	16039	20505

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 89°

Luminance: 100202 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	28.9	3.2	3.1
10°-20°	82.5	9.1	8.8
20°-30°	124.3	13.7	13.2
30°-40°	148.7	16.3	15.8
40°-50°	153.3	16.9	16.3
50°-60°	139.0	15.3	14.8
60°-70°	109.4	12.0	11.6
70°-80°	71.5	7.9	7.6
80°-90°	35.5	3.9	3.8
90°-100°	10.9	1.2	1.2
100°-110°	2.3	0.2	0.2
110°-120°	1.2	0.1	0.1
120°-130°	0.9	0.1	0.1
130°-140°	0.7	0.1	0.1
140°-150°	0.5	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°	235.7	25.9	25.1
0°-40°	384.4	42.2	40.9
0°-60°	676.7	74.4	72.0
0°-90°	893.1	98.1	95.1
90°-120°	14.4	1.6	1.5
90°-150°	16.5	1.8	1.8
90°-180°	17.0	1.9	1.8
0°-180°	910.0	100.0	96.9

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	306	306	306	306	306	
5°	306	304	303	305	306	29
15°	296	292	289	293	296	84
25°	276	269	264	270	276	127
35°	246	237	230	238	246	154
45°	208	198	190	200	208	161
55°	165	154	146	157	165	148
65°	120	108	101	112	120	119
75°	77	65	59	68	77	81
85°	38	30	26	33	38	35
90°	24	18	0	20	24	13
95°	0	9	0	10	0	3
105°	0	2	0	2	0	0
115°	0	2	0	2	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	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

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0
1°	306.2	306.3	306.3	306.3	305.9	305.8	305.7	305.6	305.7	305.6	305.5
2°	306.3	306.6	306.5	306.7	305.6	305.5	305.3	305.2	305.3	305.0	305.0
3°	306.3	306.5	306.7	307.0	305.3	305.1	304.6	304.8	304.7	304.4	304.4
4°	306.0	306.5	306.6	306.9	304.9	304.6	304.0	304.0	304.1	303.6	303.7
5°	305.8	306.4	306.4	306.9	304.4	303.7	303.2	303.2	303.3	302.7	302.6
6°	305.4	306.1	306.2	306.7	303.7	302.9	302.2	302.3	302.3	301.7	301.6
7°	304.8	305.7	305.9	306.4	302.8	302.0	301.3	301.3	301.2	300.3	300.5
8°	304.2	305.2	305.3	306.0	301.8	301.1	300.2	300.0	300.1	299.1	299.3
9°	303.5	304.5	304.7	305.5	300.9	299.9	298.9	298.8	298.8	297.6	297.7
10°	302.6	303.6	303.8	304.8	299.7	298.7	297.4	297.4	297.4	296.1	296.3
11°	301.6	302.8	303.0	304.1	298.3	297.2	295.9	295.7	296.0	294.6	294.6
12°	300.5	301.9	302.0	303.3	297.0	295.7	294.3	294.1	294.2	292.8	293.0
13°	299.3	300.7	300.9	302.3	295.4	293.9	292.6	292.3	292.5	290.9	291.1
14°	297.9	299.5	299.6	301.3	293.9	292.2	290.7	290.6	290.9	289.1	289.2
15°	296.3	298.2	298.4	300.0	292.0	290.4	288.9	288.6	289.0	287.0	287.1
16°	294.8	296.5	296.9	298.4	290.4	288.6	286.6	286.7	286.9	285.0	284.8
17°	293.2	295.0	295.1	297.0	288.4	286.5	284.5	284.6	284.6	282.5	282.7
18°	291.3	293.4	293.5	295.5	286.2	284.2	282.3	282.0	282.2	280.1	280.3
19°	289.4	291.6	291.7	293.7	284.2	281.9	279.8	279.9	280.1	277.8	277.9
20°	287.4	289.7	289.9	292.0	281.9	279.4	277.5	277.4	277.5	275.4	275.3
21°	285.4	287.7	287.7	290.1	279.6	277.1	275.0	275.0	275.0	272.6	272.4
22°	283.0	285.6	285.6	288.2	276.9	274.5	272.1	272.1	272.3	269.7	269.8
23°	280.6	283.1	283.5	285.9	274.6	272.0	269.4	269.5	269.6	266.7	266.8
24°	278.3	280.9	281.2	283.7	271.5	268.9	266.5	266.6	266.7	264.0	264.1
25°	275.8	278.5	278.6	281.4	268.8	266.1	263.8	263.6	263.7	261.2	261.0
26°	273.1	276.1	276.2	279.1	266.0	263.5	260.7	260.7	260.5	257.9	258.0
27°	270.6	273.5	273.7	276.3	263.0	260.2	257.7	257.6	257.9	254.7	254.8
28°	267.5	270.6	270.7	273.8	260.2	257.5	254.5	254.5	254.4	251.5	251.4
29°	264.6	267.9	267.9	271.1	257.1	253.9	251.0	251.0	251.3	248.1	248.1
30°	261.7	265.1	265.1	268.2	253.6	250.8	247.8	247.6	247.7	244.6	244.6
31°	258.7	262.0	262.2	265.4	250.4	247.4	244.1	244.0	244.2	240.9	241.0
32°	255.7	258.9	258.9	262.5	247.0	243.8	240.7	240.7	240.8	237.6	237.7
33°	252.2	255.9	255.9	259.4	243.4	240.5	237.4	237.1	237.3	233.7	233.8
34°	249.0	252.8	252.8	255.9	240.2	237.0	233.6	233.6	233.5	230.2	230.3
35°	245.7	249.0	249.1	252.8	236.7	233.1	229.6	229.7	229.8	226.3	226.4
36°	242.3	245.7	245.7	249.5	232.9	229.5	226.0	225.8	225.9	222.7	222.4
37°	238.6	242.3	242.3	245.9	229.2	225.6	222.3	222.2	222.4	218.8	218.9
38°	235.1	238.6	238.9	242.4	225.2	221.9	218.3	218.2	218.6	215.0	214.7
39°	231.6	235.1	235.0	239.0	221.5	218.0	214.6	214.5	214.5	210.6	210.7
40°	227.5	231.6	231.4	235.4	217.7	213.9	210.4	210.5	210.3	206.5	206.7
41°	223.8	227.5	227.8	231.6	213.6	209.8	206.1	206.0	206.1	202.2	202.4
42°	220.0	223.8	223.7	227.9	209.5	205.7	202.3	202.2	202.3	198.3	198.4
43°	216.1	220.0	220.0	224.1	205.3	201.8	198.0	198.2	198.0	194.3	194.4
44°	212.1	216.2	216.1	220.4	201.3	197.4	193.9	193.8	194.3	190.0	189.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	208.2	212.3	212.3	216.5	197.5	193.6	189.7	189.7	189.7	186.0	185.6
46°	204.2	208.1	208.3	212.2	193.3	189.1	185.2	185.3	185.7	181.6	181.2
47°	199.7	204.2	203.9	208.3	188.7	185.0	180.7	181.0	181.2	177.1	177.0
48°	195.6	200.1	199.8	204.1	184.6	180.6	176.5	176.4	176.6	172.9	172.4
49°	191.5	195.6	195.7	199.9	180.1	176.0	172.1	172.3	172.5	168.4	168.3
50°	187.4	191.5	191.6	195.8	176.0	172.0	167.9	167.9	168.2	164.1	163.8
51°	182.8	187.3	187.1	191.7	171.5	167.6	163.4	163.6	163.4	159.6	159.2
52°	178.6	183.2	183.0	187.1	167.3	162.9	158.9	159.0	159.3	154.7	154.6
53°	174.3	178.5	178.7	183.0	162.8	158.7	154.2	154.5	154.6	150.4	150.3
54°	170.1	174.2	174.0	178.7	158.1	154.1	149.8	150.2	149.8	145.5	146.0
55°	165.4	170.0	169.8	174.0	153.7	149.4	145.6	145.3	145.6	141.6	141.3
56°	161.1	165.7	165.4	169.8	149.1	145.0	141.1	141.2	141.1	136.9	137.0
57°	156.8	160.9	161.1	165.4	144.7	140.7	136.7	136.5	136.7	132.2	132.3
58°	152.0	156.5	156.2	161.1	140.3	136.0	131.8	132.2	131.9	127.5	127.6
59°	147.5	152.2	151.8	156.3	135.8	131.3	127.0	127.4	127.7	123.2	122.9
60°	143.2	147.4	147.4	151.9	131.2	126.6	122.8	122.7	123.0	118.6	118.6
61°	138.7	143.0	142.6	147.4	126.5	122.2	118.3	118.5	118.3	114.4	114.1
62°	134.3	138.5	138.2	143.1	121.8	117.6	113.8	114.0	114.0	109.7	109.7
63°	129.6	134.1	133.7	138.6	117.4	113.4	109.4	109.6	109.5	105.2	105.2
64°	125.2	129.3	128.9	133.7	113.0	108.6	104.7	105.1	104.9	100.6	100.6
65°	120.2	124.8	124.4	129.4	108.5	104.2	100.0	100.5	100.7	96.4	96.3
66°	115.9	120.4	120.1	125.0	103.8	99.6	95.7	95.7	95.9	91.7	91.6
67°	111.5	115.6	115.6	120.0	99.6	95.3	91.3	91.6	91.9	87.7	87.6
68°	107.3	111.1	111.2	115.7	94.8	90.7	87.1	87.3	87.7	83.5	83.5
69°	102.5	106.8	106.5	111.2	90.7	86.7	82.8	83.1	83.5	79.2	79.1
70°	98.1	102.5	102.2	106.9	86.4	82.6	78.4	78.7	79.0	74.9	74.7
71°	93.6	97.7	97.8	102.1	82.2	78.2	74.4	74.7	74.5	70.5	70.4
72°	89.5	93.3	93.4	97.8	77.7	73.9	70.0	70.4	70.6	66.7	66.6
73°	84.9	89.1	88.8	93.4	73.3	69.5	66.0	66.3	66.6	62.8	62.5
74°	80.7	84.9	84.6	88.7	69.4	65.7	62.1	62.4	62.6	58.7	58.7
75°	76.7	80.3	80.4	84.5	65.2	61.9	58.2	58.5	58.8	54.8	54.8
76°	72.2	76.3	75.9	80.4	61.3	57.8	54.5	54.9	54.7	51.0	50.9
77°	68.1	72.1	71.8	76.3	57.5	53.9	50.6	51.0	50.8	47.5	47.1
78°	64.2	68.1	67.7	71.8	53.5	50.1	47.2	47.2	47.4	43.9	43.8
79°	60.3	63.7	63.8	67.6	50.0	46.7	43.6	44.0	43.7	40.5	40.5
80°	56.5	59.8	59.8	63.7	46.2	43.0	40.2	40.5	40.7	37.4	37.1
81°	52.6	56.1	55.7	59.8	42.6	39.7	37.1	37.3	37.2	34.2	33.9
82°	49.0	52.4	52.1	56.0	39.4	36.6	33.8	34.1	34.2	31.0	30.9
83°	45.5	48.5	48.5	52.1	36.3	33.5	30.8	31.1	31.1	28.0	27.9
84°	42.1	45.0	44.6	48.4	33.2	30.4	28.0	28.0	28.0	25.4	25.2
85°	38.5	41.6	41.3	44.9	29.9	27.3	25.1	25.4	25.5	23.0	22.7
86°	35.4	38.3	38.0	41.2	27.2	24.8	22.7	22.9	22.9	20.6	20.4
87°	32.6	34.9	34.9	38.0	24.7	22.4	20.4	20.6	20.6	18.2	18.1
88°	29.7	32.1	31.8	34.8	22.2	20.1	18.1	18.3	18.2	16.2	16.0
89°	26.7	29.2	28.9	31.9	19.9	18.0	16.0	16.2	9.7	14.1	14.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	24.2	26.5	26.2	28.8	17.7	15.8	14.1	14.1	0.0	12.4	12.4
91°	21.8	23.8	23.7	26.1	15.5	13.8	12.4	12.5	0.0	10.8	10.8
92°	19.6	21.4	21.3	23.6	13.7	12.2	10.8	10.9	0.0	9.4	9.3
93°	17.3	19.2	18.9	21.2	11.8	10.6	9.4	9.4	0.0	8.1	8.0
94°	9.3	17.1	16.9	19.0	10.4	9.2	8.0	8.1	0.0	6.7	6.7
95°	0.0	15.1	14.9	16.7	9.0	7.9	6.9	6.9	0.0	5.7	5.7
96°	0.0	13.3	13.0	14.8	7.7	6.8	5.9	5.8	0.0	4.7	4.8
97°	0.0	11.7	11.4	13.0	6.6	5.7	4.9	4.9	0.0	4.0	4.1
98°	0.0	10.2	10.0	11.2	5.6	4.8	4.1	4.0	0.0	3.2	3.4
99°	0.0	8.9	8.6	9.8	5.0	4.1	3.3	3.3	0.2	2.5	2.8
100°	0.0	7.7	7.4	8.5	4.1	3.4	2.7	2.6	0.3	2.0	2.3
101°	0.0	6.6	6.4	7.3	3.6	2.8	2.0	1.9	0.3	1.5	2.0
102°	0.0	5.5	5.4	6.4	3.1	2.4	1.5	1.5	0.3	1.2	1.7
103°	0.0	4.6	4.6	5.5	2.5	1.9	1.0	1.0	0.2	0.7	1.5
104°	0.0	3.8	3.8	4.9	2.1	1.6	0.8	0.7	0.3	0.5	1.5
105°	0.4	3.1	3.2	4.1	1.9	1.4	0.5	0.3	0.3	0.5	1.4
106°	0.2	2.5	2.6	3.5	1.8	1.2	0.5	0.3	0.3	0.6	1.4
107°	0.3	2.0	2.2	2.8	1.7	1.2	0.5	0.3	0.2	0.6	1.4
108°	0.3	1.5	1.8	2.3	1.6	1.2	0.4	0.3	0.3	0.6	1.5
109°	0.2	1.2	1.5	2.0	1.7	1.3	0.6	0.4	0.3	0.7	1.7
110°	0.2	0.7	1.4	1.8	1.9	1.3	0.6	0.3	0.3	0.8	1.8
111°	0.2	0.5	1.2	1.7	2.0	1.4	0.6	0.3	0.3	0.8	1.7
112°	0.2	0.4	1.1	1.7	2.1	1.5	0.7	0.4	0.4	0.8	1.7
113°	0.2	0.4	1.1	1.8	2.1	1.5	0.7	0.4	0.3	0.9	1.7
114°	0.2	0.4	1.0	1.9	2.2	1.6	0.6	0.4	0.4	0.9	1.7
115°	0.2	0.3	1.0	2.0	2.3	1.7	0.6	0.4	0.4	1.0	1.7
116°	0.2	0.4	0.9	2.0	2.3	1.7	0.7	0.4	0.4	0.9	1.7
117°	0.2	0.4	0.9	1.9	2.4	1.8	0.7	0.4	0.3	1.0	1.7
118°	0.2	0.4	0.9	1.8	2.5	1.9	0.6	0.5	0.4	1.0	1.7
119°	0.3	0.3	0.9	1.8	2.5	1.8	0.6	0.3	0.4	1.0	1.7
120°	0.3	0.5	0.9	1.8	1.9	1.9	0.6	0.4	0.4	1.0	1.7
121°	0.3	0.5	0.9	1.8	0.8	1.8	0.5	0.5	0.4	1.0	1.7
122°	0.3	0.5	0.8	1.9	0.3	1.8	0.6	0.6	0.5	1.0	1.7
123°	0.3	0.5	0.8	1.9	0.2	1.7	0.6	0.5	0.4	1.0	1.7
124°	0.3	0.5	0.8	1.8	0.3	1.6	0.6	0.5	0.5	1.0	1.6
125°	0.3	0.5	0.7	1.9	0.2	1.5	0.6	0.6	0.4	1.0	1.6
126°	0.3	0.5	0.7	1.8	0.2	1.5	0.6	0.6	0.4	0.9	1.6
127°	0.3	0.5	0.7	1.8	0.3	1.4	0.5	0.5	0.5	1.0	1.6
128°	0.2	0.5	0.7	1.7	0.2	1.4	0.6	0.6	0.5	0.9	1.5
129°	0.3	0.5	0.7	1.7	0.2	1.3	0.6	0.6	0.5	0.9	1.5
130°	0.2	0.5	0.7	1.6	0.2	1.4	0.6	0.5	0.5	0.8	1.5
131°	0.3	0.6	0.8	1.6	0.2	1.7	0.6	0.6	0.5	0.9	1.4
132°	0.3	0.5	0.6	1.4	0.2	1.1	0.6	0.7	0.6	0.8	1.5
133°	0.3	0.5	0.8	1.4	0.3	1.1	0.7	0.7	0.5	0.8	1.7
134°	0.3	0.5	0.7	1.4	0.3	1.1	0.6	0.7	0.6	0.8	1.8

TEST NUMBER: P1219804

CATALOG NUMBER: HLC6FS1E-24P-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.3	0.5	0.8	1.3	0.3	1.1	0.6	0.7	0.5	0.7	1.6
136°	0.3	0.5	0.6	1.3	0.3	1.0	0.6	0.6	0.5	0.8	1.6
137°	0.3	0.5	0.8	1.2	0.3	1.0	0.6	0.6	0.6	0.7	1.9
138°	0.3	0.5	0.9	1.2	0.3	1.1	0.7	0.7	0.5	0.8	2.8
139°	0.3	0.4	1.0	1.2	0.3	1.1	0.7	0.6	0.4	0.8	2.1
140°	0.3	0.5	0.9	1.1	0.3	1.0	0.7	0.7	0.5	0.8	1.5
141°	0.3	0.5	0.8	1.1	0.2	1.0	0.7	0.6	0.5	0.8	1.7
142°	0.3	0.5	0.8	1.2	0.3	1.0	0.7	0.6	0.6	0.8	1.7
143°	0.3	0.5	0.7	1.1	0.3	0.8	0.6	0.6	0.5	0.7	1.3
144°	0.3	0.5	0.8	1.0	0.3	1.0	0.7	0.5	0.5	0.8	1.2
145°	0.3	0.5	0.8	1.0	0.3	0.9	0.6	0.6	0.5	0.8	1.2
146°	0.2	0.4	0.7	0.9	0.3	0.9	0.7	0.5	0.5	0.7	1.2
147°	0.3	0.5	0.7	0.9	0.3	0.9	0.6	0.6	0.6	0.7	1.4
148°	0.3	0.5	0.7	0.9	0.3	0.9	0.6	0.6	0.6	0.7	1.3
149°	0.2	0.5	0.8	0.9	0.3	0.7	0.7	0.6	0.6	0.7	1.2
150°	0.3	0.4	0.7	0.8	0.3	0.8	0.6	0.5	0.6	0.7	1.0
151°	0.2	0.5	0.9	0.9	0.3	0.8	0.7	0.5	0.5	0.7	1.0
152°	0.2	0.4	1.1	0.8	0.4	0.7	0.6	0.5	0.6	0.7	1.0
153°	0.2	0.4	0.7	0.9	0.3	0.7	0.5	0.5	0.6	0.7	0.9
154°	0.3	0.4	0.7	0.8	0.4	0.6	0.4	0.5	0.5	0.6	0.9
155°	0.2	0.5	0.6	1.0	0.3	0.7	0.4	0.4	0.6	0.6	0.8
156°	0.2	0.4	0.6	0.9	0.3	0.7	0.3	0.4	0.6	0.6	0.8
157°	0.2	0.5	0.6	0.7	0.3	0.6	0.3	0.4	0.6	0.6	0.8
158°	0.2	0.4	0.6	0.7	0.3	0.5	0.4	0.4	0.6	0.6	0.6
159°	0.2	0.4	0.6	0.6	0.3	0.4	0.3	0.4	0.6	0.6	0.7
160°	0.2	0.4	0.5	0.6	0.3	0.5	0.3	0.3	0.5	0.6	0.7
161°	0.2	0.4	0.4	0.7	0.4	0.4	0.3	0.3	0.5	0.6	0.7
162°	0.3	0.4	0.6	0.6	0.3	0.3	0.3	0.2	0.5	0.6	0.6
163°	0.2	0.4	0.5	0.6	0.3	0.3	0.4	0.2	0.5	0.6	0.6
164°	0.2	0.4	0.5	0.5	0.3	0.3	0.5	0.3	0.6	0.6	0.6
165°	0.2	0.5	0.5	0.5	0.3	0.3	0.3	0.2	0.4	0.5	0.6
166°	0.2	0.4	0.5	0.5	0.1	0.2	0.3	0.3	0.5	0.5	0.5
167°	0.2	0.4	0.4	0.4	0.2	0.2	0.3	0.3	0.4	0.6	0.6
168°	0.2	0.3	0.5	0.5	0.3	0.2	0.3	0.3	0.5	0.5	0.5
169°	0.3	0.4	0.5	0.5	0.2	0.3	0.3	0.3	0.4	0.4	0.5
170°	0.2	0.4	0.4	0.3	0.2	0.3	0.2	0.2	0.3	0.4	0.4
171°	0.2	0.3	0.4	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.3
172°	0.2	0.2	0.4	0.4	0.2	0.2	0.3	0.2	0.2	0.2	0.3
173°	0.1	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1
174°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2
175°	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.1
176°	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2
177°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2
178°	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	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: P1219804
CATALOG NUMBER: HLC6FS1E-24P-2700K

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: P1219804

CATALOG NUMBER: HLC6FS1E-24P-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	306.0	306.0	306.0	306.0	306.0	306.0
1°	305.3	305.8	306.1	306.2	306.2	306.2
2°	304.7	305.7	306.1	306.4	306.2	306.3
3°	303.9	305.5	306.1	306.0	306.1	306.3
4°	303.0	305.1	305.8	306.2	306.0	306.0
5°	301.9	304.6	305.4	305.9	305.7	305.8
6°	300.8	303.9	304.9	305.4	305.3	305.4
7°	299.4	303.1	304.0	305.0	304.8	304.8
8°	298.0	302.2	303.3	304.4	304.2	304.2
9°	296.4	301.2	302.5	303.5	303.5	303.5
10°	294.8	300.1	301.4	302.6	302.5	302.6
11°	293.1	299.0	300.3	301.7	301.5	301.6
12°	291.2	297.7	299.0	300.6	300.4	300.5
13°	289.4	296.1	297.7	299.3	299.1	299.3
14°	287.5	294.5	296.3	298.0	297.8	297.9
15°	285.1	292.9	294.7	296.4	296.3	296.3
16°	282.8	291.2	293.1	295.0	294.9	294.8
17°	280.5	289.3	291.3	293.1	293.1	293.2
18°	277.7	287.4	289.4	291.4	291.2	291.3
19°	275.4	285.3	287.2	289.5	289.3	289.4
20°	272.7	282.8	285.1	287.6	287.4	287.4
21°	270.1	280.5	283.0	285.4	285.0	285.4
22°	267.1	278.2	280.6	283.2	282.9	283.0
23°	264.3	275.7	278.2	280.9	280.6	280.6
24°	261.3	272.8	275.7	278.3	278.2	278.3
25°	258.0	270.2	273.2	275.8	275.4	275.8
26°	254.9	267.5	270.2	273.3	272.9	273.1
27°	251.4	264.5	267.5	270.4	270.3	270.6
28°	248.1	261.5	264.7	267.6	267.3	267.5
29°	244.6	258.5	261.8	264.9	264.6	264.6
30°	241.2	255.5	258.5	262.0	261.6	261.7
31°	237.9	251.9	255.4	258.6	258.6	258.7
32°	233.9	248.8	252.3	255.6	255.6	255.7
33°	230.2	245.4	248.8	252.5	252.1	252.2
34°	226.3	242.0	245.5	249.2	248.9	249.0
35°	222.6	238.4	242.1	245.5	245.3	245.7
36°	218.6	234.8	238.7	242.1	241.9	242.3
37°	214.9	231.3	234.8	238.7	238.5	238.6
38°	210.9	227.4	231.3	235.2	235.0	235.1
39°	206.8	223.7	227.6	231.4	231.2	231.6
40°	202.6	219.9	223.6	227.8	227.5	227.5
41°	198.5	216.1	219.8	224.0	223.8	223.8
42°	194.2	211.7	216.0	220.3	220.1	220.0
43°	190.1	207.8	212.1	216.0	215.7	216.1
44°	185.8	203.9	207.8	212.1	211.9	212.1

TEST NUMBER: P1219804

CATALOG NUMBER: HLC6FS1E-24P-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	181.3	199.6	203.8	208.2	208.0	208.2
46°	176.7	195.5	199.8	203.9	203.7	204.2
47°	172.6	191.4	195.4	199.9	199.7	199.7
48°	168.2	187.3	191.3	195.8	195.7	195.6
49°	163.9	182.7	187.1	191.7	191.5	191.5
50°	159.4	178.5	183.0	187.1	187.0	187.4
51°	154.7	174.2	178.4	183.1	182.9	182.8
52°	150.3	170.0	174.2	178.4	178.7	178.6
53°	145.7	165.3	169.9	174.1	173.9	174.3
54°	141.5	161.0	165.7	169.9	169.7	170.1
55°	136.7	156.7	160.9	165.6	165.4	165.4
56°	132.5	151.9	156.6	160.9	161.1	161.1
57°	127.7	147.5	152.2	156.6	156.5	156.8
58°	123.0	143.1	147.4	152.3	152.1	152.0
59°	118.7	138.7	143.0	147.8	147.7	147.5
60°	114.2	134.3	138.6	143.0	143.3	143.2
61°	109.8	129.5	134.1	138.5	138.9	138.7
62°	105.3	125.1	129.4	134.1	134.0	134.3
63°	100.6	120.7	125.0	129.8	129.7	129.6
64°	95.9	115.9	120.6	124.9	125.3	125.2
65°	91.7	111.5	116.2	120.5	120.4	120.2
66°	87.7	107.3	111.4	116.2	116.0	115.9
67°	83.1	102.5	107.2	111.8	111.6	111.5
68°	78.8	98.1	102.8	107.2	107.5	107.3
69°	74.4	93.8	98.4	102.8	102.7	102.5
70°	70.5	89.6	93.6	98.4	98.3	98.1
71°	66.2	84.9	89.5	94.0	93.9	93.6
72°	62.4	80.8	85.3	89.4	89.3	89.5
73°	58.6	76.8	81.1	85.3	85.1	84.9
74°	54.8	72.3	76.7	81.0	81.0	80.7
75°	50.5	68.3	72.6	76.7	76.5	76.7
76°	47.1	64.4	68.6	72.6	72.4	72.2
77°	43.5	60.5	64.3	68.5	68.4	68.1
78°	40.2	56.7	60.4	64.2	64.5	64.2
79°	37.1	52.7	56.6	60.3	60.6	60.3
80°	34.0	49.1	53.0	56.5	56.5	56.5
81°	30.7	45.6	49.1	52.9	52.9	52.6
82°	27.9	42.3	45.5	49.0	49.3	49.0
83°	25.4	38.7	42.2	45.5	45.4	45.5
84°	22.8	35.6	38.9	42.2	42.1	42.1
85°	20.4	32.6	35.8	38.9	38.8	38.5
86°	18.1	29.8	32.7	35.8	35.7	35.4
87°	16.0	26.8	29.8	32.6	32.5	32.6
88°	14.2	24.2	27.0	29.7	29.6	29.7
89°	12.5	21.8	24.3	27.0	26.9	26.7

TEST NUMBER: P1219804

CATALOG NUMBER: HLC6FS1E-24P-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	10.9	19.6	21.9	24.5	24.4	24.2
91°	9.4	17.4	19.7	21.9	21.9	21.8
92°	8.1	15.4	17.4	19.7	19.5	19.6
93°	6.9	13.6	15.5	17.6	17.5	17.3
94°	5.9	11.9	13.6	15.6	15.5	9.3
95°	5.2	10.5	12.0	13.6	13.7	0.0
96°	4.5	8.9	10.5	12.0	12.0	0.0
97°	3.8	7.8	9.2	10.5	10.6	0.0
98°	3.3	6.7	7.9	9.2	9.2	0.0
99°	2.7	5.9	6.8	7.9	8.0	0.0
100°	2.3	5.0	5.8	6.8	6.8	0.0
101°	2.0	4.3	4.9	5.7	5.8	0.0
102°	1.8	3.7	4.1	4.9	4.9	0.0
103°	1.8	3.2	3.5	4.1	4.1	0.0
104°	1.9	2.8	2.9	3.3	3.4	0.0
105°	2.1	2.5	2.4	2.8	2.7	0.4
106°	2.3	2.2	2.0	2.2	2.1	0.2
107°	2.5	2.0	1.7	1.8	1.7	0.3
108°	2.4	1.8	1.4	1.3	1.3	0.3
109°	2.4	1.6	1.3	1.0	0.9	0.2
110°	2.4	1.7	1.1	0.7	0.6	0.2
111°	2.5	1.8	1.1	0.6	0.4	0.2
112°	2.5	1.9	1.1	0.6	0.4	0.2
113°	2.6	2.1	1.2	0.6	0.4	0.2
114°	2.7	2.2	1.3	0.6	0.4	0.2
115°	2.7	2.2	1.4	0.7	0.4	0.2
116°	2.7	2.2	1.4	0.7	0.4	0.2
117°	2.6	2.3	1.5	0.7	0.4	0.2
118°	2.6	2.4	1.5	0.8	0.4	0.2
119°	2.5	2.4	1.6	0.7	0.4	0.3
120°	2.6	2.4	1.6	0.9	0.5	0.3
121°	2.5	1.1	1.7	0.8	0.4	0.3
122°	2.4	0.2	1.7	0.8	0.4	0.3
123°	2.3	0.2	1.7	0.9	0.4	0.3
124°	2.3	0.2	1.8	1.0	0.4	0.3
125°	2.2	0.2	1.8	0.9	0.5	0.3
126°	2.2	0.2	1.8	1.0	0.4	0.3
127°	2.2	0.2	1.8	1.0	0.5	0.3
128°	2.2	0.3	1.8	1.1	0.5	0.2
129°	2.8	0.3	1.8	1.1	0.5	0.3
130°	3.1	0.2	1.9	1.1	0.5	0.2
131°	2.0	0.3	1.9	1.2	0.5	0.3
132°	1.9	0.3	2.2	1.2	0.5	0.3
133°	1.8	0.3	3.7	1.2	0.5	0.3
134°	1.8	0.3	3.0	1.3	0.5	0.3

TEST NUMBER: P1219804

CATALOG NUMBER: HLC6FS1E-24P-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	1.7	0.3	2.0	1.3	0.5	0.3
136°	1.7	0.3	2.0	1.3	0.5	0.3
137°	1.7	0.3	2.0	1.3	0.6	0.3
138°	1.7	0.3	1.9	1.3	0.5	0.3
139°	1.6	0.3	1.9	1.3	0.6	0.3
140°	1.6	0.3	1.9	1.3	0.6	0.3
141°	1.7	0.3	2.0	1.3	0.5	0.3
142°	1.6	0.3	2.3	1.4	0.6	0.3
143°	1.7	0.3	2.1	1.4	0.6	0.3
144°	2.1	0.3	2.1	1.4	0.6	0.3
145°	2.9	0.3	2.4	1.3	0.4	0.3
146°	2.4	0.3	2.9	1.4	0.5	0.2
147°	1.7	0.3	2.8	1.3	0.5	0.3
148°	1.7	0.3	2.3	1.2	0.6	0.3
149°	1.5	0.2	1.9	0.9	0.5	0.2
150°	1.4	0.3	1.7	0.7	0.5	0.3
151°	1.3	0.3	1.7	0.7	0.6	0.2
152°	1.2	0.4	1.7	0.7	0.5	0.2
153°	1.2	0.4	1.6	0.8	0.6	0.2
154°	1.1	0.4	1.6	0.8	0.6	0.3
155°	1.1	0.3	1.6	0.9	0.6	0.2
156°	1.0	0.3	1.5	1.0	0.6	0.2
157°	1.0	0.3	1.4	0.9	0.6	0.2
158°	1.1	0.3	1.4	0.8	0.6	0.2
159°	1.3	0.4	1.4	0.7	0.5	0.2
160°	1.1	0.4	1.2	0.7	0.5	0.2
161°	0.8	0.3	0.7	0.6	0.5	0.2
162°	0.8	0.3	0.6	0.5	0.5	0.3
163°	0.7	0.3	0.4	0.6	0.5	0.2
164°	0.6	0.3	0.4	0.5	0.4	0.2
165°	0.5	0.3	0.4	0.5	0.4	0.2
166°	0.5	0.3	0.4	0.5	0.4	0.2
167°	0.5	0.3	0.4	0.4	0.3	0.2
168°	0.3	0.3	0.3	0.4	0.3	0.2
169°	0.3	0.3	0.2	0.4	0.2	0.3
170°	0.3	0.2	0.3	0.3	0.2	0.2
171°	0.2	0.2	0.2	0.3	0.2	0.2
172°	0.2	0.3	0.3	0.3	0.2	0.2
173°	0.2	0.2	0.2	0.2	0.1	0.1
174°	0.1	0.2	0.2	0.2	0.2	0.2
175°	0.2	0.2	0.2	0.2	0.1	0.2
176°	0.1	0.2	0.2	0.1	0.2	0.2
177°	0.1	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

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TEST NUMBER: P1219804
CATALOG NUMBER: HLC6FS1E-24P-2700K

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: P1219804

CATALOG NUMBER: HLC6FS1E-24P-2700K

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	21.8	23.4	22.2	23.8	24.2	21.5	23.1	21.9	23.5	23.9
	3H	23.9	25.4	24.3	25.7	26.1	23.5	24.9	23.9	25.3	25.7
	4H	24.8	26.2	25.2	26.6	27.0	24.3	25.7	24.7	26.0	26.5
	6H	25.6	26.9	26.1	27.3	27.8	25.0	26.3	25.4	26.7	27.1
	8H	26.0	27.3	26.5	27.7	28.1	25.3	26.5	25.8	27.0	27.4
	12H	26.4	27.6	26.9	28.0	28.5	25.6	26.8	26.1	27.2	27.7
4H	2H	22.5	23.9	23.0	24.3	24.7	22.2	23.6	22.6	24.0	24.4
	3H	24.9	26.0	25.3	26.5	26.9	24.4	25.6	24.8	26.0	26.5
	4H	25.9	27.0	26.4	27.4	27.9	25.4	26.5	25.9	26.9	27.4
	6H	26.9	27.9	27.4	28.4	28.9	26.3	27.3	26.8	27.7	28.2
	8H	27.4	28.3	27.9	28.8	29.3	26.7	27.6	27.2	28.1	28.6
	12H	27.9	28.7	28.4	29.2	29.7	27.1	27.9	27.6	28.4	29.0
8H	4H	26.4	27.3	26.9	27.7	28.2	25.8	26.7	26.3	27.2	27.7
	6H	27.6	28.3	28.1	28.9	29.4	27.0	27.7	27.5	28.2	28.7
	8H	28.2	28.9	28.7	29.4	29.9	27.5	28.2	28.1	28.7	29.3
	12H	28.9	29.5	29.4	30.0	30.6	28.1	28.7	28.7	29.3	29.9
12H	4H	26.5	27.3	27.0	27.8	28.3	25.9	26.7	26.4	27.2	27.7
	6H	27.8	28.4	28.3	28.9	29.5	27.1	27.8	27.7	28.3	28.9
	8H	28.5	29.1	29.0	29.6	30.2	27.8	28.4	28.3	28.9	29.5

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