

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: P1219805

Luminaire Tested: HLC6FS1E-24P-3000K

Issue Date: 12/22/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219805
Test Lab: INNOVATION CENTER
Issue Date: 12/22/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: HLC6FS1E-24P-3000K
Description: 6" Surface Mount LED Disk Light

Light Source:
Ballast/Driver: -

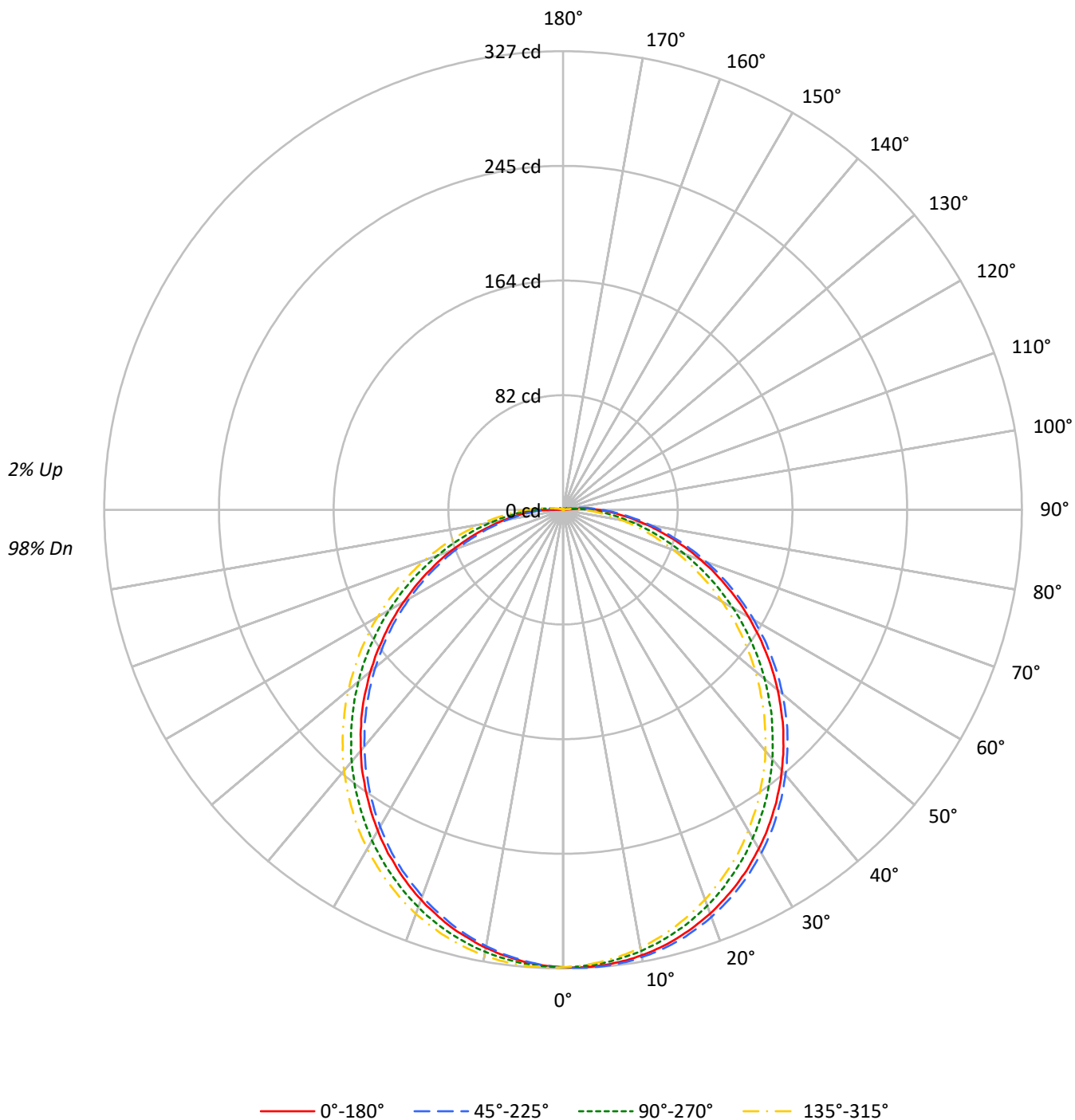
Summary

Lumens per Lamp: 939.5 (1 lamp)
Luminaire Lumens: 970.0 lumens
Efficiency: 103.2%
Efficacy: 66.0 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): 14.7
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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CATALOG NUMBER: HLC6FS1E-24P-3000K

Luminous Intensity Polar Plot



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CATALOG NUMBER: HLC6FS1E-24P-3000K

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	0
RCR																				
0	122	122	122	122	119	119	119	119	114	114	114		108	108	108		104	104	104	101
1	111	105	101	96	108	103	99	95	98	95	91		94	91	88		90	87	85	83
2	100	91	84	78	98	89	83	77	85	80	75		82	77	73		78	74	71	68
3	91	80	71	64	89	78	70	64	75	68	62		72	66	61		69	64	60	57
4	84	71	62	54	81	69	61	54	67	59	53		64	57	52		61	56	51	49
5	77	63	54	47	75	62	53	46	60	52	46		57	50	45		55	49	44	42
6	71	57	48	41	69	56	47	41	54	46	40		52	45	39		50	44	39	37
7	66	52	42	36	64	51	42	36	49	41	35		47	40	35		46	39	35	32
8	61	47	38	32	60	46	38	32	45	37	32		43	36	31		42	36	31	29
9	57	43	35	29	56	43	34	29	41	34	28		40	33	28		39	33	28	26
10	54	40	32	26	52	39	31	26	38	31	26		37	30	26		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17882	17882	17882	17882
5°	17940	17852	17791	17868
10°	17952	17785	17652	17808
15°	17929	17662	17480	17724
20°	17875	17531	17257	17583
25°	17783	17336	17003	17420
30°	17655	17110	16718	17237
35°	17520	16885	16396	17005
40°	17354	16610	16044	16774
45°	17203	16320	15684	16490
50°	17031	15999	15292	16230
55°	16850	15665	14833	15961
60°	16742	15339	14374	15700
65°	16630	14995	13918	15423
70°	16750	14762	13496	15307
75°	17326	14721	13259	15420
80°	19037	15532	13670	16543
85°	25852	20065	17109	21889

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 89°

Luminance: 106798 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	30.8	3.2	3.3
10°-20°	88.0	9.1	9.4
20°-30°	132.5	13.7	14.1
30°-40°	158.5	16.3	16.9
40°-50°	163.5	16.9	17.4
50°-60°	148.2	15.3	15.8
60°-70°	116.6	12.0	12.4
70°-80°	76.2	7.9	8.1
80°-90°	37.8	3.9	4.0
90°-100°	11.7	1.2	1.2
100°-110°	2.4	0.2	0.3
110°-120°	1.2	0.1	0.1
120°-130°	0.9	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°	251.3	25.9	26.7
0°-40°	409.7	42.2	43.6
0°-60°	721.4	74.4	76.8
0°-90°	952.0	98.1	101.3
90°-120°	15.3	1.6	1.6
90°-150°	17.6	1.8	1.9
90°-180°	18.0	1.9	1.9
0°-180°	970.0	100.0	103.2

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	326	326	326	326	326	
5°	326	324	323	325	326	31
15°	316	311	308	312	316	89
25°	294	287	281	288	294	135
35°	262	252	245	254	262	164
45°	222	210	202	213	222	171
55°	176	164	155	167	176	158
65°	128	116	107	119	128	127
75°	82	70	63	73	82	86
85°	41	32	27	35	41	38
90°	26	19	0	21	26	14
95°	0	10	0	11	0	3
105°	0	2	0	3	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	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

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	326.2	326.2	326.2	326.2	326.2	326.2	326.2	326.2	326.2	326.2	326.2
1°	326.3	326.5	326.5	326.5	326.0	326.0	325.9	325.8	325.8	325.7	325.7
2°	326.5	326.8	326.7	326.9	325.8	325.7	325.5	325.3	325.4	325.1	325.2
3°	326.4	326.7	326.9	327.2	325.4	325.2	324.7	324.9	324.8	324.4	324.5
4°	326.2	326.7	326.8	327.2	325.0	324.6	324.0	324.0	324.1	323.6	323.7
5°	326.0	326.6	326.6	327.1	324.4	323.8	323.2	323.2	323.3	322.6	322.6
6°	325.5	326.3	326.4	326.9	323.7	322.9	322.2	322.3	322.3	321.6	321.5
7°	324.9	325.8	326.0	326.7	322.7	322.0	321.2	321.2	321.0	320.1	320.3
8°	324.3	325.3	325.4	326.1	321.7	320.9	320.0	319.8	319.9	318.8	319.1
9°	323.5	324.5	324.8	325.6	320.7	319.7	318.6	318.5	318.5	317.2	317.4
10°	322.5	323.6	323.8	324.9	319.5	318.4	317.1	317.0	317.1	315.6	315.8
11°	321.5	322.8	322.9	324.2	318.0	316.8	315.5	315.2	315.5	314.1	314.1
12°	320.3	321.8	321.9	323.3	316.6	315.2	313.7	313.5	313.6	312.1	312.3
13°	319.0	320.6	320.7	322.3	314.9	313.3	311.9	311.6	311.7	310.1	310.2
14°	317.6	319.3	319.4	321.2	313.2	311.5	309.8	309.8	310.1	308.1	308.3
15°	315.9	317.9	318.0	319.8	311.2	309.5	307.9	307.7	308.0	305.9	306.0
16°	314.2	316.1	316.5	318.1	309.5	307.7	305.5	305.6	305.8	303.8	303.6
17°	312.5	314.5	314.6	316.6	307.4	305.4	303.3	303.3	303.3	301.2	301.3
18°	310.5	312.7	312.8	315.0	305.1	302.9	300.9	300.6	300.8	298.5	298.8
19°	308.4	310.8	311.0	313.1	302.9	300.5	298.2	298.4	298.6	296.2	296.3
20°	306.4	308.8	309.0	311.3	300.5	297.9	295.8	295.6	295.8	293.6	293.5
21°	304.2	306.7	306.7	309.2	298.0	295.4	293.1	293.1	293.2	290.6	290.3
22°	301.6	304.5	304.5	307.2	295.2	292.6	290.0	290.1	290.3	287.5	287.6
23°	299.1	301.8	302.1	304.7	292.7	290.0	287.2	287.2	287.3	284.3	284.4
24°	296.7	299.4	299.7	302.4	289.4	286.7	284.1	284.2	284.3	281.5	281.5
25°	294.0	296.9	297.0	300.0	286.6	283.6	281.2	281.0	281.1	278.4	278.2
26°	291.1	294.3	294.4	297.5	283.5	280.9	277.9	277.9	277.7	274.9	275.1
27°	288.5	291.6	291.7	294.5	280.4	277.4	274.7	274.6	274.9	271.5	271.6
28°	285.1	288.4	288.5	291.8	277.4	274.5	271.3	271.3	271.1	268.0	268.0
29°	282.1	285.6	285.6	288.9	274.0	270.7	267.5	267.6	267.8	264.5	264.4
30°	278.9	282.6	282.6	285.8	270.3	267.3	264.1	263.9	264.1	260.7	260.8
31°	275.7	279.3	279.5	282.9	266.9	263.7	260.2	260.1	260.3	256.8	256.8
32°	272.6	276.0	276.0	279.8	263.3	259.9	256.6	256.5	256.7	253.3	253.3
33°	268.9	272.8	272.8	276.5	259.5	256.4	253.0	252.7	252.9	249.1	249.2
34°	265.4	269.4	269.4	272.8	256.0	252.7	249.0	249.0	248.9	245.4	245.5
35°	261.8	265.4	265.5	269.5	252.3	248.5	244.8	244.9	245.0	241.2	241.3
36°	258.3	262.0	261.9	266.0	248.2	244.7	240.9	240.7	240.8	237.4	237.0
37°	254.3	258.3	258.3	262.1	244.3	240.5	237.0	236.8	237.0	233.2	233.3
38°	250.6	254.4	254.6	258.4	240.1	236.5	232.7	232.6	233.0	229.2	228.9
39°	246.8	250.6	250.4	254.7	236.1	232.4	228.8	228.7	228.6	224.5	224.6
40°	242.5	246.8	246.6	251.0	232.1	228.0	224.3	224.3	224.2	220.1	220.3
41°	238.5	242.5	242.8	246.8	227.7	223.7	219.7	219.6	219.7	215.6	215.7
42°	234.5	238.6	238.5	242.9	223.3	219.3	215.6	215.5	215.7	211.4	211.5
43°	230.4	234.5	234.5	238.9	218.9	215.1	211.1	211.3	211.0	207.2	207.2
44°	226.0	230.5	230.3	234.9	214.6	210.5	206.7	206.6	207.1	202.5	202.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	221.9	226.3	226.2	230.8	210.5	206.4	202.2	202.3	202.3	198.3	197.9
46°	217.7	221.8	222.1	226.2	206.0	201.6	197.4	197.6	197.9	193.6	193.1
47°	212.9	217.6	217.3	222.0	201.1	197.2	192.6	192.9	193.1	188.7	188.7
48°	208.5	213.3	213.0	217.5	196.8	192.5	188.2	188.0	188.3	184.3	183.8
49°	204.1	208.5	208.6	213.1	192.0	187.6	183.5	183.7	183.9	179.5	179.4
50°	199.7	204.1	204.3	208.8	187.6	183.3	178.9	178.9	179.3	174.9	174.6
51°	194.9	199.7	199.5	204.4	182.8	178.6	174.2	174.4	174.2	170.1	169.7
52°	190.4	195.3	195.1	199.5	178.3	173.6	169.4	169.5	169.8	164.8	164.8
53°	185.8	190.3	190.5	195.0	173.6	169.2	164.3	164.7	164.8	160.3	160.3
54°	181.3	185.7	185.5	190.5	168.5	164.2	159.6	160.1	159.7	155.1	155.7
55°	176.3	181.2	180.9	185.4	163.9	159.2	155.2	154.9	155.2	150.9	150.6
56°	171.7	176.6	176.3	180.9	159.0	154.6	150.4	150.5	150.4	145.9	146.0
57°	167.1	171.5	171.7	176.3	154.2	150.0	145.7	145.5	145.7	140.9	141.1
58°	162.0	166.9	166.5	171.7	149.6	144.9	140.5	140.9	140.6	135.9	136.0
59°	157.3	162.2	161.8	166.6	144.7	139.9	135.4	135.8	136.1	131.4	131.0
60°	152.7	157.1	157.2	161.9	139.9	134.9	130.9	130.7	131.1	126.4	126.4
61°	147.8	152.4	152.0	157.2	134.8	130.3	126.1	126.3	126.1	121.9	121.6
62°	143.1	147.6	147.3	152.5	129.8	125.3	121.3	121.5	121.5	117.0	116.9
63°	138.2	142.9	142.6	147.7	125.1	120.9	116.6	116.8	116.8	112.1	112.1
64°	133.4	137.9	137.4	142.5	120.4	115.8	111.6	112.0	111.8	107.2	107.2
65°	128.2	133.1	132.6	137.9	115.6	111.1	106.6	107.1	107.3	102.7	102.6
66°	123.6	128.4	128.0	133.2	110.6	106.2	102.0	102.0	102.3	97.8	97.6
67°	118.8	123.2	123.2	128.0	106.1	101.6	97.3	97.6	98.0	93.5	93.4
68°	114.3	118.4	118.5	123.3	101.0	96.6	92.9	93.1	93.4	89.0	89.0
69°	109.2	113.9	113.6	118.6	96.7	92.4	88.3	88.6	89.0	84.4	84.3
70°	104.5	109.3	108.9	114.0	92.1	88.0	83.6	83.8	84.2	79.9	79.7
71°	99.8	104.1	104.3	108.9	87.6	83.4	79.3	79.7	79.4	75.2	75.0
72°	95.4	99.4	99.6	104.2	82.8	78.8	74.7	75.0	75.3	71.1	71.0
73°	90.5	95.0	94.6	99.5	78.2	74.1	70.3	70.6	70.9	67.0	66.6
74°	86.0	90.5	90.1	94.6	74.0	70.0	66.2	66.5	66.7	62.6	62.5
75°	81.8	85.6	85.7	90.1	69.5	66.0	62.0	62.3	62.6	58.4	58.4
76°	76.9	81.3	80.9	85.7	65.4	61.6	58.1	58.5	58.4	54.3	54.3
77°	72.6	76.9	76.5	81.3	61.3	57.4	54.0	54.4	54.2	50.6	50.2
78°	68.4	72.6	72.2	76.5	57.0	53.4	50.3	50.3	50.5	46.8	46.6
79°	64.3	67.9	68.0	72.1	53.3	49.8	46.5	46.9	46.6	43.2	43.2
80°	60.3	63.8	63.8	67.9	49.2	45.9	42.9	43.2	43.3	39.8	39.6
81°	56.1	59.8	59.4	63.8	45.4	42.3	39.5	39.8	39.7	36.5	36.2
82°	52.2	55.9	55.6	59.7	42.0	39.0	36.0	36.4	36.5	33.1	33.0
83°	48.5	51.7	51.7	55.5	38.7	35.7	32.8	33.1	33.2	29.8	29.7
84°	44.9	47.9	47.6	51.6	35.4	32.4	29.8	29.8	29.9	27.1	26.9
85°	41.1	44.4	44.0	47.9	31.9	29.1	26.8	27.0	27.2	24.5	24.2
86°	37.8	40.9	40.5	43.9	29.0	26.5	24.2	24.4	24.4	22.0	21.7
87°	34.7	37.2	37.2	40.5	26.3	23.9	21.7	21.9	21.9	19.4	19.3
88°	31.6	34.2	33.9	37.1	23.6	21.5	19.3	19.5	19.3	17.2	17.1
89°	28.5	31.1	30.8	34.0	21.2	19.2	17.0	17.2	10.3	15.0	15.0

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CATALOG NUMBER: HLC6FS1E-24P-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	25.8	28.2	27.9	30.7	18.8	16.8	15.1	15.0	0.0	13.2	13.2
91°	23.2	25.3	25.2	27.8	16.5	14.7	13.2	13.3	0.0	11.5	11.5
92°	20.9	22.8	22.7	25.1	14.6	13.0	11.5	11.7	0.0	10.0	10.0
93°	18.5	20.4	20.1	22.6	12.6	11.3	10.0	10.0	0.0	8.6	8.5
94°	9.9	18.3	18.0	20.2	11.0	9.8	8.6	8.7	0.0	7.2	7.2
95°	0.0	16.1	15.9	17.8	9.6	8.4	7.4	7.4	0.0	6.1	6.1
96°	0.0	14.2	13.9	15.8	8.2	7.2	6.3	6.2	0.0	5.0	5.2
97°	0.0	12.5	12.2	13.9	7.0	6.1	5.2	5.2	0.0	4.3	4.3
98°	0.0	10.9	10.6	12.0	6.0	5.2	4.3	4.3	0.0	3.4	3.7
99°	0.0	9.5	9.2	10.4	5.3	4.4	3.6	3.5	0.3	2.6	3.0
100°	0.0	8.2	7.9	9.0	4.4	3.6	2.9	2.8	0.4	2.1	2.5
101°	0.0	7.0	6.8	7.7	3.9	3.0	2.1	2.1	0.3	1.6	2.1
102°	0.0	5.9	5.7	6.8	3.3	2.5	1.6	1.5	0.3	1.2	1.8
103°	0.0	4.9	4.9	5.8	2.7	2.0	1.1	1.1	0.3	0.8	1.7
104°	0.0	4.0	4.1	5.2	2.2	1.7	0.8	0.7	0.3	0.5	1.6
105°	0.4	3.3	3.4	4.4	2.1	1.4	0.5	0.3	0.3	0.5	1.4
106°	0.2	2.6	2.8	3.8	1.9	1.3	0.5	0.4	0.3	0.6	1.5
107°	0.4	2.1	2.3	3.0	1.8	1.2	0.5	0.4	0.3	0.6	1.5
108°	0.3	1.6	1.9	2.4	1.7	1.3	0.4	0.4	0.3	0.6	1.6
109°	0.3	1.2	1.7	2.2	1.8	1.4	0.6	0.4	0.3	0.7	1.8
110°	0.2	0.7	1.5	2.0	2.0	1.4	0.6	0.3	0.3	0.8	1.9
111°	0.2	0.5	1.3	1.8	2.1	1.5	0.6	0.4	0.3	0.9	1.8
112°	0.2	0.4	1.2	1.8	2.2	1.5	0.7	0.4	0.4	0.8	1.8
113°	0.2	0.4	1.2	1.9	2.2	1.6	0.7	0.5	0.3	0.9	1.8
114°	0.2	0.4	1.1	2.0	2.3	1.7	0.7	0.5	0.4	1.0	1.8
115°	0.3	0.3	1.0	2.2	2.5	1.8	0.7	0.4	0.4	1.0	1.8
116°	0.2	0.4	1.0	2.1	2.5	1.8	0.7	0.4	0.4	0.9	1.8
117°	0.2	0.4	1.0	2.0	2.6	1.9	0.7	0.5	0.4	1.1	1.8
118°	0.2	0.5	0.9	2.0	2.7	2.0	0.7	0.5	0.5	1.0	1.8
119°	0.3	0.4	1.0	1.9	2.7	2.0	0.6	0.4	0.4	1.1	1.8
120°	0.3	0.5	0.9	2.0	2.0	2.0	0.7	0.5	0.5	1.1	1.8
121°	0.3	0.5	0.9	2.0	0.8	1.9	0.6	0.5	0.5	1.1	1.8
122°	0.4	0.5	0.8	2.1	0.3	1.9	0.6	0.6	0.5	1.1	1.8
123°	0.3	0.5	0.9	2.0	0.2	1.8	0.6	0.6	0.4	1.1	1.8
124°	0.3	0.5	0.9	2.0	0.3	1.7	0.6	0.5	0.5	1.0	1.7
125°	0.4	0.5	0.7	2.0	0.2	1.6	0.7	0.7	0.5	1.0	1.7
126°	0.3	0.6	0.8	1.9	0.2	1.6	0.6	0.7	0.5	1.0	1.7
127°	0.3	0.5	0.7	1.9	0.3	1.5	0.5	0.6	0.5	1.1	1.7
128°	0.2	0.5	0.8	1.9	0.2	1.5	0.6	0.7	0.5	1.0	1.6
129°	0.3	0.6	0.8	1.8	0.3	1.4	0.7	0.6	0.5	1.0	1.6
130°	0.2	0.5	0.8	1.7	0.2	1.5	0.6	0.5	0.6	0.8	1.6
131°	0.3	0.6	0.8	1.7	0.2	1.8	0.7	0.7	0.5	0.9	1.5
132°	0.3	0.5	0.7	1.5	0.2	1.1	0.7	0.7	0.6	0.9	1.7
133°	0.3	0.5	0.8	1.5	0.3	1.1	0.7	0.7	0.5	0.9	1.8
134°	0.3	0.5	0.8	1.5	0.3	1.1	0.6	0.7	0.6	0.8	2.0

TEST NUMBER: P1219805

CATALOG NUMBER: HLC6FS1E-24P-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.3	0.6	0.8	1.4	0.3	1.1	0.7	0.7	0.5	0.8	1.7
136°	0.3	0.6	0.7	1.4	0.3	1.0	0.6	0.6	0.5	0.8	1.7
137°	0.3	0.6	0.8	1.3	0.4	1.1	0.6	0.7	0.6	0.7	2.1
138°	0.3	0.6	1.0	1.3	0.3	1.2	0.7	0.7	0.5	0.9	3.0
139°	0.3	0.4	1.1	1.2	0.3	1.2	0.8	0.7	0.4	0.8	2.3
140°	0.3	0.6	1.0	1.2	0.4	1.1	0.8	0.7	0.5	0.9	1.6
141°	0.3	0.5	0.9	1.2	0.2	1.1	0.8	0.6	0.5	0.9	1.8
142°	0.3	0.5	0.8	1.2	0.4	1.0	0.7	0.7	0.6	0.9	1.8
143°	0.3	0.5	0.8	1.2	0.3	0.9	0.6	0.6	0.6	0.8	1.4
144°	0.3	0.5	0.8	1.0	0.4	1.0	0.7	0.5	0.5	0.9	1.3
145°	0.3	0.5	0.8	1.0	0.3	1.0	0.7	0.7	0.6	0.8	1.3
146°	0.3	0.5	0.8	1.0	0.3	0.9	0.7	0.5	0.5	0.7	1.3
147°	0.3	0.5	0.8	1.0	0.4	0.9	0.7	0.6	0.6	0.8	1.5
148°	0.3	0.5	0.8	0.9	0.4	0.9	0.6	0.6	0.6	0.8	1.4
149°	0.2	0.5	0.8	0.9	0.4	0.8	0.8	0.6	0.6	0.7	1.2
150°	0.3	0.4	0.8	0.8	0.3	0.8	0.7	0.6	0.6	0.7	1.1
151°	0.2	0.5	0.9	0.9	0.4	0.8	0.7	0.5	0.5	0.8	1.0
152°	0.2	0.5	1.2	0.9	0.4	0.8	0.6	0.5	0.6	0.7	1.0
153°	0.2	0.5	0.8	0.9	0.4	0.7	0.5	0.5	0.7	0.7	1.0
154°	0.3	0.5	0.8	0.8	0.4	0.7	0.5	0.5	0.5	0.7	0.9
155°	0.2	0.5	0.7	1.0	0.4	0.8	0.4	0.4	0.6	0.6	0.9
156°	0.2	0.5	0.7	0.9	0.4	0.7	0.3	0.4	0.6	0.6	0.8
157°	0.2	0.5	0.6	0.8	0.4	0.6	0.3	0.5	0.6	0.7	0.8
158°	0.2	0.5	0.6	0.7	0.3	0.5	0.4	0.4	0.6	0.6	0.7
159°	0.2	0.5	0.6	0.6	0.3	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	0.8
161°	0.2	0.4	0.5	0.7	0.5	0.4	0.4	0.3	0.5	0.6	0.7
162°	0.3	0.5	0.6	0.6	0.4	0.3	0.3	0.3	0.5	0.6	0.7
163°	0.3	0.5	0.5	0.6	0.4	0.3	0.5	0.3	0.5	0.6	0.7
164°	0.2	0.5	0.5	0.6	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	0.4	0.2	0.4	0.5	0.7
166°	0.2	0.5	0.5	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	0.2	0.3	0.3	0.5	0.6	0.6
168°	0.2	0.4	0.5	0.5	0.3	0.3	0.3	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	0.4	0.5	0.5
170°	0.2	0.4	0.5	0.3	0.2	0.3	0.2	0.3	0.3	0.4	0.4
171°	0.2	0.3	0.4	0.4	0.2	0.3	0.3	0.2	0.4	0.3	0.3
172°	0.2	0.3	0.5	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	0.2
174°	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2
175°	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2
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	0.2	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	0.1	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: P1219805
CATALOG NUMBER: HLC6FS1E-24P-3000K

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: P1219805

CATALOG NUMBER: HLC6FS1E-24P-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	326.2	326.2	326.2	326.2	326.2	326.2
1°	325.4	326.0	326.3	326.4	326.3	326.3
2°	324.7	325.8	326.3	326.6	326.4	326.5
3°	323.9	325.6	326.2	326.1	326.3	326.4
4°	323.0	325.2	326.0	326.3	326.2	326.2
5°	321.9	324.7	325.5	326.1	325.8	326.0
6°	320.6	323.9	325.0	325.6	325.5	325.5
7°	319.1	323.1	324.1	325.1	324.9	324.9
8°	317.7	322.1	323.3	324.5	324.2	324.3
9°	315.9	321.1	322.4	323.5	323.5	323.5
10°	314.3	319.9	321.3	322.6	322.4	322.5
11°	312.5	318.8	320.1	321.6	321.3	321.5
12°	310.4	317.3	318.8	320.4	320.2	320.3
13°	308.4	315.6	317.4	319.1	318.8	319.0
14°	306.4	314.0	315.8	317.6	317.4	317.6
15°	303.9	312.3	314.2	315.9	315.8	315.9
16°	301.4	310.4	312.4	314.5	314.3	314.2
17°	299.0	308.4	310.5	312.4	312.4	312.5
18°	296.1	306.3	308.5	310.6	310.4	310.5
19°	293.6	304.1	306.1	308.6	308.4	308.4
20°	290.7	301.4	303.9	306.6	306.3	306.4
21°	287.9	299.0	301.6	304.2	303.8	304.2
22°	284.7	296.5	299.1	301.9	301.6	301.6
23°	281.8	293.8	296.6	299.4	299.1	299.1
24°	278.6	290.8	293.9	296.6	296.6	296.7
25°	275.0	288.0	291.2	294.0	293.6	294.0
26°	271.7	285.1	288.0	291.3	290.9	291.1
27°	268.0	281.9	285.1	288.2	288.1	288.5
28°	264.5	278.8	282.2	285.2	284.9	285.1
29°	260.7	275.6	279.0	282.3	282.0	282.1
30°	257.1	272.3	275.5	279.2	278.9	278.9
31°	253.5	268.5	272.2	275.7	275.7	275.7
32°	249.4	265.2	268.9	272.5	272.4	272.6
33°	245.4	261.6	265.2	269.1	268.7	268.9
34°	241.3	258.0	261.7	265.6	265.3	265.4
35°	237.3	254.1	258.1	261.7	261.5	261.8
36°	233.0	250.3	254.4	258.1	257.9	258.3
37°	229.1	246.6	250.3	254.4	254.2	254.3
38°	224.8	242.3	246.5	250.7	250.4	250.6
39°	220.5	238.4	242.6	246.6	246.4	246.8
40°	215.9	234.4	238.3	242.8	242.5	242.5
41°	211.6	230.3	234.3	238.8	238.6	238.5
42°	207.0	225.6	230.2	234.8	234.6	234.5
43°	202.6	221.5	226.1	230.2	230.0	230.4
44°	198.0	217.4	221.5	226.1	225.9	226.0

TEST NUMBER: P1219805

CATALOG NUMBER: HLC6FS1E-24P-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	193.3	212.7	217.3	221.9	221.7	221.9
46°	188.4	208.4	213.0	217.3	217.1	217.7
47°	184.0	204.0	208.3	213.1	212.9	212.9
48°	179.3	199.6	203.9	208.7	208.6	208.5
49°	174.7	194.8	199.5	204.4	204.1	204.1
50°	169.9	190.3	195.0	199.5	199.3	199.7
51°	164.9	185.7	190.1	195.2	195.0	194.9
52°	160.2	181.2	185.6	190.1	190.5	190.4
53°	155.3	176.2	181.2	185.6	185.4	185.8
54°	150.8	171.6	176.6	181.1	180.9	181.3
55°	145.8	167.0	171.5	176.5	176.3	176.3
56°	141.2	161.9	167.0	171.6	171.7	171.7
57°	136.1	157.2	162.2	166.9	166.8	167.1
58°	131.1	152.6	157.1	162.3	162.2	162.0
59°	126.6	147.8	152.4	157.6	157.4	157.3
60°	121.7	143.2	147.7	152.4	152.8	152.7
61°	117.0	138.0	143.0	147.6	148.1	147.8
62°	112.2	133.3	137.9	142.9	142.9	143.1
63°	107.2	128.7	133.2	138.4	138.3	138.2
64°	102.2	123.6	128.5	133.2	133.6	133.4
65°	97.8	118.9	123.9	128.5	128.3	128.2
66°	93.4	114.4	118.8	123.9	123.7	123.6
67°	88.6	109.3	114.2	119.1	118.9	118.8
68°	84.0	104.6	109.6	114.2	114.5	114.3
69°	79.3	100.0	104.9	109.6	109.5	109.2
70°	75.1	95.5	99.8	104.9	104.8	104.5
71°	70.6	90.5	95.4	100.2	100.1	99.8
72°	66.5	86.2	90.9	95.3	95.2	95.4
73°	62.5	81.9	86.5	90.9	90.8	90.5
74°	58.4	77.1	81.8	86.4	86.3	86.0
75°	53.9	72.8	77.4	81.7	81.6	81.8
76°	50.2	68.6	73.1	77.4	77.2	76.9
77°	46.3	64.5	68.5	73.0	72.9	72.6
78°	42.8	60.5	64.4	68.4	68.7	68.4
79°	39.5	56.2	60.4	64.3	64.6	64.3
80°	36.3	52.4	56.5	60.2	60.2	60.3
81°	32.7	48.6	52.3	56.4	56.4	56.1
82°	29.7	45.1	48.5	52.3	52.5	52.2
83°	27.1	41.3	45.0	48.5	48.4	48.5
84°	24.4	37.9	41.5	44.9	44.8	44.9
85°	21.7	34.8	38.2	41.5	41.4	41.1
86°	19.3	31.7	34.8	38.1	38.1	37.8
87°	17.1	28.5	31.8	34.7	34.6	34.7
88°	15.2	25.8	28.8	31.7	31.6	31.6
89°	13.3	23.3	25.9	28.8	28.7	28.5

TEST NUMBER: P1219805

CATALOG NUMBER: HLC6FS1E-24P-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	11.6	20.9	23.3	26.1	26.0	25.8
91°	10.1	18.5	21.0	23.3	23.4	23.2
92°	8.6	16.4	18.5	20.9	20.8	20.9
93°	7.3	14.5	16.5	18.7	18.6	18.5
94°	6.3	12.7	14.5	16.7	16.5	9.9
95°	5.6	11.2	12.8	14.5	14.7	0.0
96°	4.8	9.5	11.2	12.8	12.8	0.0
97°	4.1	8.3	9.8	11.2	11.3	0.0
98°	3.5	7.1	8.4	9.8	9.8	0.0
99°	2.9	6.2	7.2	8.4	8.5	0.0
100°	2.4	5.4	6.2	7.3	7.2	0.0
101°	2.1	4.6	5.2	6.1	6.2	0.0
102°	1.9	4.0	4.4	5.2	5.2	0.0
103°	1.9	3.4	3.7	4.4	4.4	0.0
104°	2.0	3.0	3.1	3.6	3.6	0.0
105°	2.2	2.7	2.6	3.0	2.9	0.4
106°	2.5	2.4	2.1	2.4	2.3	0.2
107°	2.6	2.1	1.8	1.9	1.8	0.4
108°	2.6	1.9	1.5	1.4	1.4	0.3
109°	2.6	1.7	1.3	1.1	0.9	0.3
110°	2.5	1.8	1.2	0.8	0.7	0.2
111°	2.6	1.9	1.1	0.7	0.5	0.2
112°	2.6	2.1	1.2	0.6	0.4	0.2
113°	2.8	2.3	1.3	0.6	0.4	0.2
114°	2.8	2.3	1.4	0.7	0.4	0.2
115°	2.8	2.3	1.5	0.7	0.4	0.3
116°	2.8	2.4	1.5	0.8	0.4	0.2
117°	2.8	2.5	1.6	0.8	0.4	0.2
118°	2.8	2.5	1.6	0.9	0.4	0.2
119°	2.6	2.6	1.7	0.8	0.4	0.3
120°	2.8	2.5	1.7	0.9	0.5	0.3
121°	2.6	1.2	1.8	0.9	0.4	0.3
122°	2.6	0.2	1.8	0.9	0.4	0.4
123°	2.4	0.2	1.8	1.0	0.5	0.3
124°	2.5	0.2	1.9	1.0	0.4	0.3
125°	2.4	0.3	2.0	1.0	0.5	0.4
126°	2.4	0.3	1.9	1.1	0.5	0.3
127°	2.3	0.2	1.9	1.1	0.5	0.3
128°	2.4	0.3	1.9	1.2	0.5	0.2
129°	3.0	0.3	1.9	1.2	0.5	0.3
130°	3.3	0.2	2.0	1.2	0.6	0.2
131°	2.2	0.3	2.1	1.2	0.5	0.3
132°	2.0	0.3	2.4	1.2	0.6	0.3
133°	1.9	0.3	3.9	1.3	0.5	0.3
134°	1.9	0.3	3.2	1.4	0.6	0.3

TEST NUMBER: P1219805

CATALOG NUMBER: HLC6FS1E-24P-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	1.9	0.3	2.2	1.3	0.5	0.3
136°	1.8	0.3	2.1	1.4	0.5	0.3
137°	1.8	0.3	2.1	1.4	0.6	0.3
138°	1.8	0.3	2.1	1.4	0.6	0.3
139°	1.7	0.3	2.0	1.4	0.6	0.3
140°	1.7	0.3	2.0	1.4	0.6	0.3
141°	1.8	0.3	2.1	1.4	0.6	0.3
142°	1.8	0.3	2.4	1.5	0.6	0.3
143°	1.8	0.3	2.2	1.4	0.6	0.3
144°	2.3	0.3	2.2	1.5	0.6	0.3
145°	3.1	0.3	2.6	1.4	0.4	0.3
146°	2.6	0.3	3.1	1.5	0.6	0.3
147°	1.8	0.3	3.0	1.4	0.6	0.3
148°	1.8	0.3	2.5	1.3	0.6	0.3
149°	1.6	0.2	2.0	1.0	0.5	0.2
150°	1.5	0.4	1.9	0.7	0.6	0.3
151°	1.4	0.4	1.8	0.7	0.6	0.2
152°	1.3	0.4	1.8	0.8	0.5	0.2
153°	1.2	0.4	1.8	0.9	0.6	0.2
154°	1.2	0.4	1.7	0.9	0.6	0.3
155°	1.1	0.4	1.7	1.0	0.6	0.2
156°	1.1	0.4	1.6	1.0	0.6	0.2
157°	1.1	0.4	1.5	0.9	0.6	0.2
158°	1.2	0.3	1.5	0.9	0.6	0.2
159°	1.4	0.4	1.5	0.8	0.5	0.2
160°	1.2	0.4	1.2	0.8	0.5	0.2
161°	0.9	0.4	0.8	0.6	0.5	0.2
162°	0.8	0.3	0.6	0.6	0.5	0.3
163°	0.8	0.3	0.5	0.7	0.5	0.3
164°	0.6	0.4	0.4	0.5	0.4	0.2
165°	0.5	0.4	0.4	0.5	0.4	0.2
166°	0.5	0.3	0.4	0.5	0.4	0.2
167°	0.5	0.4	0.4	0.4	0.3	0.2
168°	0.3	0.3	0.4	0.4	0.3	0.2
169°	0.3	0.3	0.3	0.4	0.2	0.3
170°	0.3	0.2	0.3	0.4	0.2	0.2
171°	0.2	0.3	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	0.2	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: P1219805
CATALOG NUMBER: HLC6FS1E-24P-3000K

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: P1219805

CATALOG NUMBER: HLC6FS1E-24P-3000K

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	22.0	23.7	22.4	24.0	24.4	21.7	23.4	22.1	23.7	24.1
	3H	24.1	25.6	24.5	26.0	26.4	23.7	25.2	24.1	25.5	25.9
	4H	25.0	26.4	25.4	26.8	27.2	24.5	25.9	24.9	26.3	26.7
	6H	25.9	27.2	26.3	27.6	28.0	25.2	26.5	25.6	26.9	27.3
	8H	26.2	27.5	26.7	27.9	28.4	25.5	26.8	26.0	27.2	27.6
	12H	26.6	27.8	27.1	28.2	28.7	25.8	27.0	26.3	27.4	27.9
4H	2H	22.7	24.1	23.2	24.5	24.9	22.4	23.8	22.8	24.2	24.6
	3H	25.1	26.3	25.5	26.7	27.1	24.6	25.8	25.1	26.2	26.7
	4H	26.1	27.2	26.6	27.7	28.1	25.6	26.7	26.1	27.2	27.6
	6H	27.2	28.1	27.6	28.6	29.1	26.5	27.5	27.0	28.0	28.5
	8H	27.6	28.5	28.1	29.0	29.5	27.0	27.8	27.4	28.3	28.8
	12H	28.1	28.9	28.6	29.4	30.0	27.4	28.2	27.9	28.7	29.2
8H	4H	26.6	27.5	27.1	28.0	28.5	26.0	26.9	26.5	27.4	27.9
	6H	27.8	28.6	28.3	29.1	29.6	27.2	27.9	27.7	28.5	29.0
	8H	28.4	29.1	29.0	29.6	30.2	27.8	28.4	28.3	29.0	29.5
	12H	29.1	29.7	29.6	30.2	30.8	28.4	29.0	28.9	29.5	30.1
12H	4H	26.7	27.5	27.2	28.0	28.5	26.1	26.9	26.6	27.4	27.9
	6H	28.0	28.7	28.5	29.1	29.7	27.3	28.0	27.9	28.5	29.1
	8H	28.7	29.3	29.2	29.8	30.4	28.0	28.6	28.5	29.1	29.7

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