

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: P1219808

Luminaire Tested: HLC6FS1E-24P-5000K

Issue Date: 12/22/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-2019
Report Number: P1219808
Test Lab: INNOVATION CENTER
Issue Date: 12/22/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: HLC6FS1E-24P-5000K
Description: 6" Surface Mount LED Disk Light

Light Source:
Ballast/Driver: -

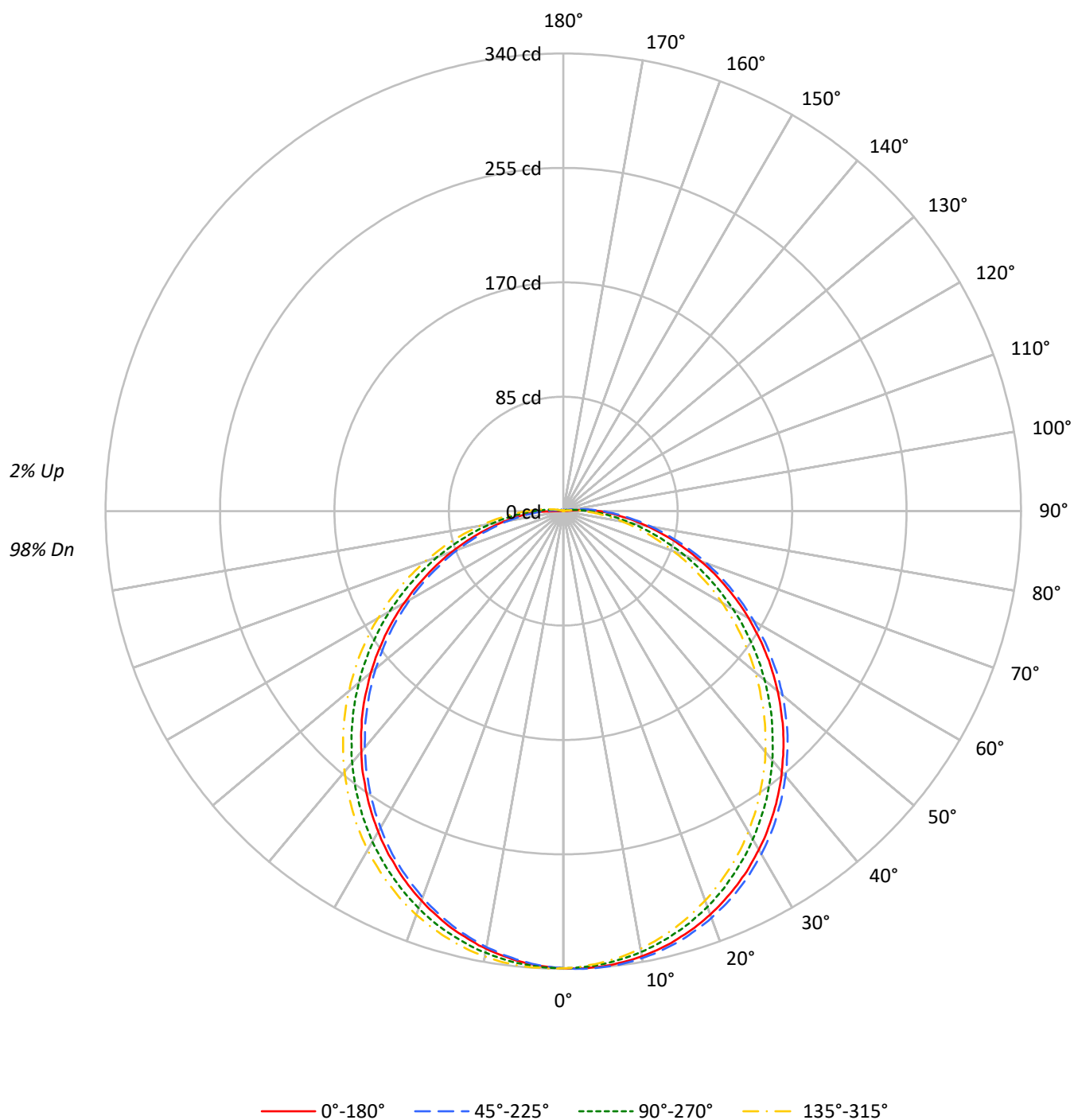
Summary

Lumens per Lamp: 939.5 (1 lamp)
Luminaire Lumens: 1010.0 lumens
Efficiency: 107.5%
Efficacy: 69.7 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): 14.5
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: P1219808
CATALOG NUMBER: HLC6FS1E-24P-5000K

Luminous Intensity Polar Plot



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CATALOG NUMBER: HLC6FS1E-24P-5000K

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	128	128	128	128	124	124	124	124	118	118	118		113	113	113		108	108	108	106
1	115	110	105	100	112	107	103	98	102	98	95		98	95	92		93	91	89	86
2	105	95	88	81	102	93	86	80	89	83	78		85	80	76		81	77	74	71
3	95	83	74	67	92	82	73	66	78	71	65		75	69	63		72	67	62	60
4	87	74	64	57	84	72	63	56	69	61	55		66	60	54		64	58	53	51
5	80	66	56	49	78	65	55	48	62	54	48		60	53	47		57	51	46	44
6	74	59	50	42	72	58	49	42	56	48	42		54	47	41		52	46	41	38
7	69	54	44	37	67	53	44	37	51	43	37		49	42	36		48	41	36	34
8	64	49	40	33	62	48	39	33	47	39	33		45	38	33		44	37	32	30
9	60	45	36	30	58	44	36	30	43	35	30		42	34	29		40	34	29	27
10	56	42	33	27	54	41	33	27	40	32	27		39	32	27		37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	18617	18617	18617	18617
5°	18677	18589	18523	18600
10°	18693	18520	18375	18542
15°	18666	18394	18201	18451
20°	18610	18254	17968	18312
25°	18515	18049	17705	18140
30°	18383	17819	17408	17952
35°	18243	17581	17072	17708
40°	18070	17290	16703	17461
45°	17909	16994	16327	17172
50°	17739	16665	15923	16895
55°	17538	16305	15455	16621
60°	17433	15975	14966	16347
65°	17317	15618	14489	16059
70°	17439	15371	14057	15948
75°	18025	15335	13810	16055
80°	19826	16164	14238	17205
85°	26921	20882	17800	22769

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 89°

Luminance: 111196 cd/sqm

TEST NUMBER: P1219808

CATALOG NUMBER: HLC6FS1E-24P-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	32.1	3.2	3.4
10°-20°	91.6	9.1	9.8
20°-30°	137.9	13.7	14.7
30°-40°	165.0	16.3	17.6
40°-50°	170.2	16.9	18.1
50°-60°	154.3	15.3	16.4
60°-70°	121.4	12.0	12.9
70°-80°	79.4	7.9	8.4
80°-90°	39.4	3.9	4.2
90°-100°	12.2	1.2	1.3
100°-110°	2.5	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°	261.6	25.9	27.8
0°-40°	426.6	42.2	45.4
0°-60°	751.1	74.4	79.9
0°-90°	991.2	98.1	105.5
90°-120°	15.9	1.6	1.7
90°-150°	18.3	1.8	1.9
90°-180°	19.0	1.9	2.0
0°-180°	1010.0	100.0	107.5

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	340	340	340	340	340	
5°	339	338	337	338	339	32
15°	329	324	321	325	329	93
25°	306	298	293	300	306	141
35°	273	263	255	265	273	171
45°	231	219	211	222	231	178
55°	184	171	162	174	184	164
65°	134	120	112	124	134	133
75°	85	72	65	76	85	90
85°	43	33	28	36	43	39
90°	27	20	0	22	27	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: P1219808

CATALOG NUMBER: HLC6FS1E-24P-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6
1°	339.8	340.0	340.0	340.0	339.5	339.4	339.3	339.2	339.3	339.2	339.1
2°	340.0	340.3	340.2	340.4	339.2	339.1	338.9	338.7	338.8	338.5	338.6
3°	339.9	340.2	340.4	340.7	338.8	338.6	338.1	338.3	338.2	337.8	337.8
4°	339.6	340.2	340.3	340.7	338.4	338.0	337.4	337.4	337.5	337.0	337.0
5°	339.4	340.1	340.1	340.6	337.8	337.1	336.5	336.5	336.6	336.0	335.9
6°	339.0	339.8	339.8	340.4	337.0	336.2	335.4	335.5	335.6	334.9	334.8
7°	338.3	339.3	339.5	340.1	336.0	335.2	334.4	334.4	334.3	333.3	333.5
8°	337.6	338.7	338.8	339.6	335.0	334.2	333.1	333.0	333.1	331.9	332.2
9°	336.9	337.9	338.1	339.0	333.9	332.8	331.7	331.6	331.7	330.3	330.4
10°	335.8	337.0	337.2	338.3	332.7	331.5	330.1	330.1	330.1	328.7	328.9
11°	334.7	336.1	336.3	337.5	331.1	329.9	328.5	328.2	328.6	327.0	327.0
12°	333.5	335.1	335.2	336.6	329.6	328.2	326.7	326.5	326.6	325.0	325.1
13°	332.2	333.8	333.9	335.6	327.9	326.2	324.7	324.4	324.6	322.9	323.0
14°	330.7	332.4	332.6	334.4	326.2	324.4	322.6	322.5	322.8	320.8	321.0
15°	328.9	331.0	331.1	333.0	324.1	322.3	320.6	320.3	320.7	318.5	318.7
16°	327.2	329.1	329.5	331.2	322.3	320.4	318.1	318.2	318.4	316.3	316.2
17°	325.4	327.5	327.6	329.7	320.1	318.0	315.8	315.8	315.8	313.6	313.7
18°	323.3	325.6	325.7	328.0	317.6	315.4	313.3	313.0	313.2	310.9	311.1
19°	321.2	323.6	323.8	326.0	315.4	312.9	310.5	310.7	310.9	308.4	308.5
20°	319.0	321.5	321.7	324.1	312.9	310.1	308.0	307.8	308.0	305.7	305.6
21°	316.7	319.4	319.3	321.9	310.3	307.6	305.2	305.2	305.2	302.6	302.3
22°	314.1	317.0	317.0	319.8	307.3	304.7	302.0	302.0	302.2	299.3	299.5
23°	311.5	314.3	314.6	317.3	304.8	301.9	299.0	299.1	299.2	296.0	296.1
24°	308.9	311.8	312.1	314.9	301.4	298.5	295.8	295.9	296.1	293.1	293.1
25°	306.1	309.1	309.3	312.3	298.4	295.3	292.8	292.6	292.7	289.9	289.7
26°	303.1	306.4	306.5	309.8	295.2	292.4	289.4	289.4	289.2	286.2	286.4
27°	300.4	303.6	303.7	306.7	291.9	288.8	286.0	285.9	286.2	282.7	282.8
28°	296.9	300.3	300.4	303.8	288.8	285.8	282.5	282.4	282.3	279.1	279.1
29°	293.7	297.3	297.3	300.9	285.3	281.8	278.6	278.6	278.9	275.4	275.4
30°	290.4	294.3	294.2	297.6	281.5	278.4	275.0	274.8	275.0	271.5	271.5
31°	287.1	290.8	291.0	294.6	277.9	274.6	271.0	270.8	271.1	267.4	267.4
32°	283.8	287.4	287.4	291.3	274.1	270.6	267.2	267.1	267.3	263.8	263.8
33°	280.0	284.0	284.0	287.9	270.2	266.9	263.4	263.1	263.3	259.4	259.5
34°	276.3	280.5	280.5	284.1	266.6	263.1	259.2	259.3	259.2	255.5	255.6
35°	272.6	276.3	276.5	280.6	262.7	258.7	254.8	255.0	255.1	251.1	251.3
36°	268.9	272.8	272.7	276.9	258.5	254.7	250.8	250.6	250.7	247.2	246.8
37°	264.8	269.0	268.9	272.9	254.3	250.4	246.8	246.6	246.8	242.8	242.9
38°	260.9	264.8	265.1	269.1	250.0	246.3	242.2	242.2	242.6	238.7	238.3
39°	257.0	261.0	260.8	265.2	245.8	242.0	238.2	238.1	238.0	233.7	233.9
40°	252.5	257.0	256.8	261.3	241.6	237.4	233.5	233.6	233.4	229.2	229.4
41°	248.3	252.5	252.8	257.0	237.1	232.9	228.8	228.7	228.8	224.5	224.6
42°	244.1	248.4	248.3	252.9	232.5	228.3	224.5	224.4	224.5	220.1	220.2
43°	239.9	244.2	244.1	248.7	227.9	224.0	219.8	220.0	219.7	215.7	215.8
44°	235.4	240.0	239.8	244.6	223.5	219.1	215.2	215.1	215.6	210.9	210.8

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CATALOG NUMBER: HLC6FS1E-24P-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	231.0	235.7	235.6	240.3	219.2	214.9	210.6	210.6	210.6	206.5	206.0
46°	226.6	231.0	231.2	235.5	214.5	209.9	205.5	205.7	206.1	201.6	201.1
47°	221.6	226.6	226.3	231.2	209.4	205.3	200.5	200.9	201.1	196.5	196.5
48°	217.1	222.1	221.7	226.5	204.9	200.4	195.9	195.8	196.0	191.9	191.4
49°	212.5	217.1	217.2	221.9	199.9	195.4	191.0	191.2	191.5	186.9	186.8
50°	208.0	212.5	212.7	217.4	195.4	190.9	186.3	186.3	186.7	182.1	181.8
51°	202.9	207.9	207.7	212.8	190.4	186.0	181.4	181.6	181.4	177.2	176.7
52°	198.2	203.3	203.1	207.7	185.7	180.8	176.4	176.5	176.8	171.6	171.6
53°	193.5	198.1	198.4	203.1	180.7	176.1	171.1	171.4	171.6	166.9	166.9
54°	188.8	193.4	193.1	198.4	175.5	171.0	166.2	166.7	166.3	161.5	162.1
55°	183.5	188.7	188.4	193.1	170.6	165.8	161.6	161.3	161.7	157.2	156.8
56°	178.8	183.9	183.6	188.4	165.5	161.0	156.6	156.7	156.6	151.9	152.0
57°	174.0	178.6	178.8	183.6	160.6	156.2	151.7	151.4	151.7	146.8	146.9
58°	168.7	173.7	173.4	178.8	155.8	150.9	146.3	146.7	146.4	141.5	141.6
59°	163.7	168.9	168.5	173.5	150.7	145.7	141.0	141.4	141.7	136.8	136.4
60°	159.0	163.6	163.6	168.6	145.7	140.5	136.3	136.1	136.5	131.7	131.6
61°	153.9	158.7	158.3	163.6	140.4	135.7	131.3	131.5	131.3	127.0	126.6
62°	149.1	153.7	153.4	158.8	135.2	130.5	126.3	126.6	126.5	121.8	121.7
63°	143.9	148.8	148.4	153.8	130.3	125.9	121.4	121.6	121.6	116.7	116.8
64°	138.9	143.5	143.1	148.4	125.4	120.6	116.2	116.7	116.4	111.6	111.7
65°	133.5	138.6	138.1	143.6	120.4	115.7	111.0	111.5	111.7	107.0	106.9
66°	128.7	133.6	133.2	138.7	115.2	110.5	106.3	106.2	106.5	101.8	101.7
67°	123.7	128.3	128.3	133.2	110.5	105.8	101.4	101.6	102.0	97.4	97.2
68°	119.0	123.3	123.4	128.4	105.2	100.6	96.7	96.9	97.3	92.7	92.7
69°	113.7	118.6	118.2	123.5	100.7	96.2	91.9	92.2	92.6	87.9	87.8
70°	108.8	113.8	113.4	118.7	95.9	91.7	87.0	87.3	87.7	83.2	83.0
71°	103.9	108.4	108.6	113.4	91.2	86.8	82.6	82.9	82.7	78.3	78.1
72°	99.3	103.5	103.7	108.5	86.2	82.0	77.7	78.1	78.4	74.0	73.9
73°	94.2	98.9	98.5	103.6	81.4	77.2	73.2	73.5	73.9	69.7	69.3
74°	89.6	94.2	93.8	98.5	77.0	72.9	68.9	69.2	69.5	65.2	65.1
75°	85.1	89.1	89.2	93.8	72.4	68.7	64.6	64.9	65.2	60.8	60.8
76°	80.1	84.7	84.2	89.2	68.0	64.1	60.5	60.9	60.8	56.6	56.5
77°	75.6	80.1	79.7	84.7	63.8	59.8	56.2	56.6	56.4	52.7	52.3
78°	71.2	75.6	75.1	79.7	59.4	55.6	52.4	52.4	52.6	48.7	48.6
79°	66.9	70.7	70.8	75.1	55.5	51.8	48.4	48.8	48.5	45.0	45.0
80°	62.8	66.4	66.4	70.7	51.2	47.8	44.6	45.0	45.1	41.5	41.2
81°	58.4	62.2	61.8	66.4	47.3	44.1	41.1	41.4	41.3	38.0	37.6
82°	54.4	58.2	57.8	62.2	43.8	40.6	37.5	37.9	38.0	34.4	34.3
83°	50.5	53.8	53.8	57.8	40.3	37.2	34.1	34.5	34.6	31.1	30.9
84°	46.7	49.9	49.5	53.8	36.8	33.7	31.1	31.1	31.1	28.2	28.0
85°	42.8	46.2	45.8	49.9	33.2	30.3	27.9	28.1	28.3	25.5	25.2
86°	39.3	42.6	42.2	45.7	30.2	27.6	25.2	25.5	25.4	22.9	22.6
87°	36.1	38.8	38.8	42.2	27.4	24.9	22.6	22.8	22.8	20.2	20.1
88°	32.9	35.6	35.2	38.7	24.6	22.4	20.1	20.3	20.1	17.9	17.8
89°	29.6	32.4	32.0	35.4	22.0	20.0	17.7	18.0	10.7	15.7	15.6

TEST NUMBER: P1219808

CATALOG NUMBER: HLC6FS1E-24P-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	26.8	29.4	29.0	32.0	19.6	17.5	15.7	15.7	0.0	13.7	13.7
91°	24.2	26.4	26.3	28.9	17.2	15.3	13.8	13.9	0.0	12.0	11.9
92°	21.7	23.7	23.6	26.2	15.2	13.5	12.0	12.1	0.0	10.4	10.4
93°	19.2	21.3	21.0	23.5	13.1	11.7	10.4	10.5	0.0	9.0	8.8
94°	10.3	19.0	18.8	21.1	11.5	10.2	8.9	9.0	0.0	7.5	7.5
95°	0.0	16.7	16.6	18.6	10.0	8.8	7.7	7.7	0.0	6.3	6.4
96°	0.0	14.8	14.4	16.4	8.5	7.5	6.5	6.5	0.0	5.3	5.4
97°	0.0	13.0	12.7	14.4	7.3	6.3	5.4	5.5	0.0	4.4	4.5
98°	0.0	11.4	11.1	12.4	6.3	5.4	4.5	4.5	0.0	3.5	3.8
99°	0.0	9.9	9.6	10.9	5.5	4.5	3.7	3.6	0.3	2.7	3.1
100°	0.0	8.5	8.2	9.4	4.6	3.8	3.0	2.9	0.4	2.2	2.6
101°	0.0	7.3	7.1	8.1	4.0	3.1	2.2	2.2	0.3	1.6	2.2
102°	0.0	6.2	6.0	7.1	3.4	2.6	1.7	1.6	0.3	1.3	1.8
103°	0.0	5.1	5.1	6.1	2.8	2.1	1.2	1.2	0.3	0.8	1.7
104°	0.0	4.2	4.2	5.4	2.3	1.8	0.9	0.8	0.3	0.6	1.6
105°	0.4	3.4	3.5	4.6	2.1	1.5	0.5	0.4	0.3	0.5	1.5
106°	0.2	2.7	2.9	3.9	2.0	1.4	0.5	0.4	0.3	0.6	1.6
107°	0.4	2.2	2.4	3.1	1.9	1.3	0.5	0.4	0.3	0.7	1.6
108°	0.4	1.6	2.0	2.5	1.8	1.4	0.4	0.4	0.3	0.7	1.7
109°	0.3	1.3	1.7	2.2	1.9	1.5	0.6	0.4	0.3	0.7	1.8
110°	0.2	0.8	1.5	2.0	2.1	1.4	0.7	0.4	0.3	0.8	2.0
111°	0.2	0.5	1.4	1.9	2.2	1.5	0.6	0.4	0.4	0.9	1.9
112°	0.2	0.5	1.2	1.9	2.3	1.6	0.7	0.5	0.4	0.9	1.9
113°	0.2	0.4	1.2	2.0	2.3	1.7	0.7	0.5	0.3	1.0	1.9
114°	0.2	0.4	1.1	2.1	2.4	1.8	0.7	0.5	0.4	1.0	1.8
115°	0.3	0.3	1.1	2.3	2.6	1.9	0.7	0.4	0.4	1.1	1.9
116°	0.2	0.4	1.0	2.2	2.6	1.9	0.7	0.5	0.4	1.0	1.9
117°	0.2	0.5	1.0	2.1	2.7	2.0	0.8	0.5	0.4	1.1	1.9
118°	0.2	0.5	1.0	2.0	2.8	2.1	0.7	0.5	0.5	1.1	1.9
119°	0.3	0.4	1.0	2.0	2.8	2.0	0.7	0.4	0.5	1.1	1.9
120°	0.3	0.5	1.0	2.0	2.1	2.1	0.7	0.5	0.5	1.2	1.9
121°	0.3	0.5	1.0	2.0	0.9	2.0	0.6	0.6	0.5	1.1	1.9
122°	0.4	0.6	0.9	2.2	0.3	2.0	0.7	0.6	0.5	1.1	1.8
123°	0.3	0.6	0.9	2.1	0.3	1.8	0.7	0.6	0.5	1.1	1.8
124°	0.3	0.6	0.9	2.1	0.3	1.8	0.6	0.6	0.5	1.1	1.8
125°	0.4	0.6	0.8	2.1	0.2	1.7	0.7	0.7	0.5	1.1	1.7
126°	0.3	0.6	0.8	2.0	0.3	1.7	0.6	0.7	0.5	1.0	1.8
127°	0.3	0.5	0.8	2.0	0.3	1.5	0.6	0.6	0.5	1.1	1.8
128°	0.2	0.5	0.8	1.9	0.3	1.5	0.7	0.7	0.5	1.0	1.7
129°	0.3	0.6	0.8	1.9	0.3	1.4	0.7	0.7	0.5	1.0	1.7
130°	0.3	0.6	0.8	1.8	0.3	1.6	0.6	0.5	0.6	0.9	1.6
131°	0.3	0.6	0.9	1.7	0.3	1.8	0.7	0.7	0.5	1.0	1.6
132°	0.3	0.5	0.7	1.6	0.2	1.2	0.7	0.7	0.6	0.9	1.7
133°	0.3	0.5	0.8	1.5	0.3	1.2	0.7	0.8	0.5	0.9	1.9
134°	0.3	0.5	0.8	1.6	0.3	1.2	0.7	0.7	0.6	0.9	2.1

TEST NUMBER: P1219808

CATALOG NUMBER: HLC6FS1E-24P-5000K

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	0.7	0.5	0.8	1.8
136°	0.3	0.6	0.7	1.4	0.3	1.1	0.7	0.7	0.5	0.8	1.8
137°	0.3	0.6	0.9	1.3	0.4	1.1	0.7	0.7	0.6	0.7	2.2
138°	0.3	0.6	1.0	1.3	0.3	1.3	0.8	0.7	0.5	0.9	3.1
139°	0.3	0.4	1.1	1.3	0.3	1.2	0.8	0.7	0.5	0.9	2.4
140°	0.3	0.6	1.0	1.3	0.4	1.1	0.8	0.7	0.6	0.9	1.7
141°	0.3	0.6	0.9	1.2	0.2	1.1	0.8	0.7	0.6	0.9	1.9
142°	0.3	0.6	0.9	1.3	0.4	1.1	0.7	0.7	0.6	0.9	1.9
143°	0.3	0.5	0.8	1.2	0.3	0.9	0.6	0.7	0.6	0.8	1.5
144°	0.3	0.5	0.8	1.1	0.4	1.1	0.8	0.5	0.5	0.9	1.4
145°	0.3	0.5	0.8	1.1	0.4	1.1	0.7	0.7	0.6	0.8	1.3
146°	0.3	0.5	0.8	1.1	0.3	1.0	0.7	0.5	0.5	0.7	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	0.5	0.8	1.0	0.4	0.9	0.7	0.7	0.7	0.8	1.5
149°	0.3	0.6	0.9	1.0	0.4	0.8	0.8	0.6	0.6	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	1.1
151°	0.2	0.5	1.0	1.0	0.4	0.9	0.8	0.6	0.5	0.8	1.1
152°	0.2	0.5	1.3	0.9	0.4	0.8	0.7	0.6	0.6	0.7	1.1
153°	0.2	0.5	0.8	0.9	0.4	0.7	0.6	0.5	0.7	0.7	1.0
154°	0.3	0.5	0.8	0.9	0.4	0.7	0.5	0.5	0.5	0.7	1.0
155°	0.2	0.5	0.7	1.1	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	0.5	0.6	0.7	0.9
157°	0.2	0.5	0.6	0.8	0.4	0.6	0.3	0.5	0.7	0.7	0.8
158°	0.3	0.5	0.6	0.8	0.4	0.5	0.4	0.4	0.6	0.7	0.7
159°	0.2	0.5	0.6	0.7	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	0.5	0.5	0.7	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	0.6	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	0.6	0.5	0.3	0.3	0.4	0.3	0.5	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	0.3	0.3	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	0.5
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	0.2	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	0.2	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: P1219808
CATALOG NUMBER: HLC6FS1E-24P-5000K

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: P1219808

CATALOG NUMBER: HLC6FS1E-24P-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	339.6	339.6	339.6	339.6	339.6	339.6
1°	338.8	339.5	339.7	339.9	339.8	339.8
2°	338.1	339.3	339.7	340.0	339.9	340.0
3°	337.3	339.0	339.7	339.6	339.8	339.9
4°	336.3	338.6	339.4	339.8	339.7	339.6
5°	335.1	338.0	339.0	339.5	339.3	339.4
6°	333.8	337.3	338.4	339.0	338.9	339.0
7°	332.3	336.5	337.5	338.5	338.3	338.3
8°	330.8	335.4	336.7	337.8	337.6	337.6
9°	328.9	334.3	335.7	336.8	336.8	336.9
10°	327.2	333.1	334.6	335.9	335.7	335.8
11°	325.4	331.9	333.3	334.9	334.6	334.7
12°	323.2	330.4	331.9	333.7	333.4	333.5
13°	321.1	328.6	330.4	332.2	332.0	332.2
14°	319.0	326.9	328.8	330.7	330.5	330.7
15°	316.4	325.1	327.1	329.0	328.9	328.9
16°	313.9	323.2	325.3	327.4	327.3	327.2
17°	311.3	321.1	323.3	325.3	325.3	325.4
18°	308.3	318.9	321.2	323.4	323.2	323.3
19°	305.7	316.6	318.8	321.3	321.1	321.2
20°	302.6	313.9	316.4	319.2	318.9	319.0
21°	299.8	311.3	314.1	316.7	316.3	316.7
22°	296.5	308.7	311.4	314.3	314.0	314.1
23°	293.4	305.9	308.8	311.8	311.5	311.5
24°	290.0	302.8	306.0	308.8	308.8	308.9
25°	286.3	299.9	303.2	306.2	305.7	306.1
26°	282.9	296.9	299.9	303.3	302.9	303.1
27°	279.0	293.6	296.9	300.1	300.0	300.4
28°	275.4	290.3	293.8	297.0	296.7	296.9
29°	271.5	287.0	290.5	294.0	293.7	293.7
30°	267.7	283.6	286.9	290.8	290.4	290.4
31°	264.0	279.6	283.5	287.1	287.1	287.1
32°	259.6	276.1	280.0	283.7	283.7	283.8
33°	255.5	272.4	276.1	280.2	279.8	280.0
34°	251.2	268.6	272.5	276.6	276.2	276.3
35°	247.0	264.6	268.7	272.5	272.3	272.6
36°	242.6	260.6	264.9	268.7	268.5	268.9
37°	238.5	256.7	260.6	264.9	264.7	264.8
38°	234.1	252.3	256.7	261.1	260.8	260.9
39°	229.6	248.3	252.6	256.8	256.6	257.0
40°	224.8	244.0	248.2	252.8	252.5	252.5
41°	220.4	239.8	244.0	248.7	248.4	248.3
42°	215.6	234.9	239.7	244.5	244.3	244.1
43°	211.0	230.6	235.4	239.7	239.4	239.9
44°	206.2	226.3	230.6	235.4	235.2	235.4

TEST NUMBER: P1219808

CATALOG NUMBER: HLC6FS1E-24P-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	201.2	221.5	226.2	231.1	230.9	231.0
46°	196.2	217.0	221.8	226.3	226.1	226.6
47°	191.6	212.4	216.9	221.9	221.7	221.6
48°	186.7	207.8	212.3	217.3	217.2	217.1
49°	181.9	202.8	207.7	212.8	212.5	212.5
50°	176.9	198.1	203.1	207.7	207.5	208.0
51°	171.7	193.4	198.0	203.2	203.0	202.9
52°	166.9	188.7	193.3	198.0	198.3	198.2
53°	161.7	183.5	188.6	193.3	193.0	193.5
54°	157.0	178.7	183.9	188.6	188.3	188.8
55°	151.8	173.9	178.6	183.8	183.6	183.5
56°	147.1	168.6	173.8	178.6	178.8	178.8
57°	141.8	163.7	168.9	173.8	173.6	174.0
58°	136.5	158.9	163.6	169.0	168.8	168.7
59°	131.8	153.9	158.7	164.1	163.9	163.7
60°	126.8	149.1	153.8	158.7	159.1	159.0
61°	121.9	143.7	148.9	153.7	154.2	153.9
62°	116.8	138.8	143.6	148.8	148.7	149.1
63°	111.7	134.0	138.7	144.1	144.0	143.9
64°	106.4	128.7	133.8	138.7	139.1	138.9
65°	101.8	123.8	129.0	133.8	133.6	133.5
66°	97.3	119.1	123.7	129.0	128.8	128.7
67°	92.2	113.8	119.0	124.0	123.9	123.7
68°	87.4	108.9	114.1	118.9	119.3	119.0
69°	82.6	104.1	109.2	114.1	114.0	113.7
70°	78.2	99.5	103.9	109.2	109.1	108.8
71°	73.5	94.3	99.3	104.3	104.2	103.9
72°	69.2	89.7	94.6	99.2	99.1	99.3
73°	65.0	85.2	90.0	94.6	94.5	94.2
74°	60.8	80.3	85.2	89.9	89.9	89.6
75°	56.1	75.8	80.6	85.1	84.9	85.1
76°	52.3	71.5	76.1	80.6	80.4	80.1
77°	48.2	67.1	71.3	76.0	75.9	75.6
78°	44.6	63.0	67.0	71.2	71.6	71.2
79°	41.2	58.5	62.9	66.9	67.3	66.9
80°	37.8	54.5	58.9	62.7	62.7	62.8
81°	34.0	50.6	54.5	58.8	58.7	58.4
82°	30.9	46.9	50.5	54.4	54.7	54.4
83°	28.2	43.0	46.9	50.5	50.4	50.5
84°	25.4	39.5	43.2	46.8	46.7	46.7
85°	22.6	36.2	39.7	43.2	43.1	42.8
86°	20.1	33.0	36.2	39.7	39.6	39.3
87°	17.8	29.7	33.1	36.2	36.1	36.1
88°	15.8	26.9	30.0	33.0	32.9	32.9
89°	13.9	24.2	26.9	29.9	29.8	29.6

TEST NUMBER: P1219808

CATALOG NUMBER: HLC6FS1E-24P-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	12.1	21.7	24.3	27.2	27.1	26.8
91°	10.5	19.3	21.8	24.3	24.3	24.2
92°	9.0	17.1	19.3	21.8	21.7	21.7
93°	7.6	15.1	17.2	19.5	19.4	19.2
94°	6.6	13.3	15.1	17.4	17.2	10.3
95°	5.8	11.6	13.4	15.1	15.3	0.0
96°	5.0	9.9	11.7	13.4	13.3	0.0
97°	4.2	8.6	10.2	11.7	11.7	0.0
98°	3.6	7.4	8.8	10.2	10.2	0.0
99°	3.0	6.5	7.5	8.8	8.9	0.0
100°	2.5	5.6	6.4	7.6	7.5	0.0
101°	2.2	4.8	5.4	6.4	6.4	0.0
102°	2.0	4.1	4.6	5.4	5.4	0.0
103°	2.0	3.6	3.8	4.5	4.5	0.0
104°	2.1	3.1	3.2	3.7	3.8	0.0
105°	2.3	2.8	2.7	3.1	3.0	0.4
106°	2.6	2.5	2.2	2.5	2.4	0.2
107°	2.7	2.2	1.9	1.9	1.9	0.4
108°	2.7	2.0	1.6	1.5	1.4	0.4
109°	2.7	1.8	1.4	1.2	1.0	0.3
110°	2.6	1.8	1.2	0.8	0.7	0.2
111°	2.7	2.0	1.2	0.7	0.5	0.2
112°	2.8	2.2	1.2	0.6	0.4	0.2
113°	2.9	2.4	1.4	0.6	0.4	0.2
114°	3.0	2.4	1.5	0.7	0.4	0.2
115°	3.0	2.4	1.5	0.7	0.4	0.3
116°	3.0	2.5	1.6	0.8	0.4	0.2
117°	2.9	2.6	1.6	0.8	0.4	0.2
118°	2.9	2.6	1.6	0.9	0.4	0.2
119°	2.8	2.7	1.7	0.8	0.4	0.3
120°	2.9	2.6	1.8	1.0	0.5	0.3
121°	2.8	1.2	1.8	0.9	0.4	0.3
122°	2.7	0.2	1.8	0.9	0.4	0.4
123°	2.5	0.2	1.9	1.0	0.5	0.3
124°	2.6	0.2	2.0	1.1	0.5	0.3
125°	2.5	0.3	2.0	1.0	0.5	0.4
126°	2.5	0.3	2.0	1.2	0.5	0.3
127°	2.4	0.2	2.0	1.1	0.6	0.3
128°	2.5	0.3	2.0	1.2	0.5	0.2
129°	3.1	0.3	2.0	1.2	0.6	0.3
130°	3.4	0.2	2.1	1.3	0.6	0.3
131°	2.2	0.3	2.2	1.3	0.5	0.3
132°	2.1	0.3	2.5	1.3	0.6	0.3
133°	2.0	0.3	4.1	1.4	0.6	0.3
134°	2.0	0.3	3.3	1.4	0.6	0.3

TEST NUMBER: P1219808

CATALOG NUMBER: HLC6FS1E-24P-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	1.9	0.3	2.3	1.4	0.5	0.3
136°	1.9	0.3	2.2	1.4	0.6	0.3
137°	1.9	0.3	2.2	1.4	0.6	0.3
138°	1.8	0.3	2.1	1.4	0.6	0.3
139°	1.8	0.3	2.1	1.5	0.6	0.3
140°	1.7	0.3	2.1	1.5	0.6	0.3
141°	1.8	0.3	2.2	1.5	0.6	0.3
142°	1.8	0.3	2.5	1.6	0.6	0.3
143°	1.9	0.4	2.3	1.5	0.6	0.3
144°	2.4	0.3	2.3	1.5	0.6	0.3
145°	3.2	0.3	2.7	1.5	0.5	0.3
146°	2.7	0.3	3.3	1.5	0.6	0.3
147°	1.9	0.3	3.1	1.5	0.6	0.3
148°	1.9	0.3	2.6	1.3	0.6	0.3
149°	1.7	0.2	2.1	1.0	0.6	0.3
150°	1.5	0.4	1.9	0.8	0.6	0.3
151°	1.5	0.4	1.9	0.8	0.6	0.2
152°	1.4	0.4	1.9	0.8	0.5	0.2
153°	1.3	0.4	1.8	0.9	0.6	0.2
154°	1.2	0.4	1.8	0.9	0.6	0.3
155°	1.2	0.4	1.7	1.0	0.6	0.2
156°	1.1	0.4	1.7	1.1	0.7	0.2
157°	1.1	0.4	1.6	1.0	0.6	0.2
158°	1.2	0.3	1.6	0.9	0.6	0.3
159°	1.4	0.4	1.6	0.8	0.5	0.2
160°	1.2	0.4	1.3	0.8	0.6	0.2
161°	0.9	0.4	0.8	0.7	0.5	0.2
162°	0.8	0.3	0.7	0.6	0.5	0.3
163°	0.8	0.3	0.5	0.7	0.5	0.3
164°	0.7	0.4	0.5	0.5	0.5	0.2
165°	0.5	0.4	0.4	0.6	0.4	0.2
166°	0.5	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	0.4	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°	0.2	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	0.2	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

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TEST NUMBER: P1219808
CATALOG NUMBER: HLC6FS1E-24P-5000K

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: P1219808

CATALOG NUMBER: HLC6FS1E-24P-5000K

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	22.2	23.8	22.6	24.2	24.5	21.9	23.5	22.3	23.9	24.2
	3H	24.3	25.7	24.7	26.1	26.5	23.8	25.3	24.2	25.7	26.1
	4H	25.2	26.6	25.6	26.9	27.4	24.6	26.0	25.1	26.4	26.8
	6H	26.0	27.3	26.4	27.7	28.1	25.3	26.6	25.8	27.0	27.5
	8H	26.4	27.6	26.8	28.0	28.5	25.7	26.9	26.1	27.3	27.8
	12H	26.8	28.0	27.2	28.4	28.9	26.0	27.2	26.4	27.6	28.1
4H	2H	22.9	24.3	23.3	24.7	25.1	22.5	23.9	23.0	24.3	24.7
	3H	25.2	26.4	25.7	26.8	27.3	24.8	25.9	25.2	26.4	26.8
	4H	26.3	27.4	26.7	27.8	28.3	25.8	26.8	26.2	27.3	27.8
	6H	27.3	28.2	27.8	28.7	29.2	26.7	27.6	27.2	28.1	28.6
	8H	27.8	28.7	28.3	29.1	29.6	27.1	28.0	27.6	28.5	29.0
	12H	28.3	29.1	28.8	29.6	30.1	27.5	28.3	28.0	28.8	29.3
8H	4H	26.7	27.6	27.2	28.1	28.6	26.2	27.1	26.7	27.6	28.1
	6H	28.0	28.7	28.5	29.2	29.7	27.3	28.1	27.8	28.6	29.1
	8H	28.6	29.2	29.1	29.8	30.3	27.9	28.6	28.4	29.1	29.6
	12H	29.2	29.8	29.8	30.4	31.0	28.5	29.1	29.0	29.6	30.2
12H	4H	26.8	27.6	27.3	28.1	28.6	26.3	27.1	26.8	27.6	28.1
	6H	28.1	28.8	28.7	29.3	29.9	27.5	28.2	28.0	28.6	29.2
	8H	28.8	29.4	29.4	29.9	30.5	28.1	28.7	28.7	29.3	29.8

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(END OF REPORT)