

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: P27419

Luminaire Tested: **5162WH-E5ICAT \_ H5ICAT-29WA19**

Test Date: 02/04/16

**Test Information**

Test Method: LM-41-14  
Report Number: P27419  
Test Lab: INNOVATION CENTER-P2  
Test Date: 02/04/16  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: 5162WH-E5ICAT \_ H5ICAT-29WA19  
Description: H5 5" RECESSED INCANDESCENT SHOWERLIGHT WITH DROP PLASTIC LENS AND REFLECTOR AND WHITE PLASTIC TRIM  
Light Source: (1) PHILIPS ECOVANTAGE MEDIUM BASE INCANDESCENT 29A19/EV  
Ballast/Driver: (1) CHROMA AC POWER SUPPLY IN0061

**Summary**

Lumens per Lamp: 380 (1 lamp)  
Luminaire Lumens: 208.3 lumens  
Efficiency: 54.8%  
Efficacy: 7.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.41  
Luminous Opening: Vertical Cylinder (Dia: 0.42' x H: 0.08')  
CIE Type: Direct

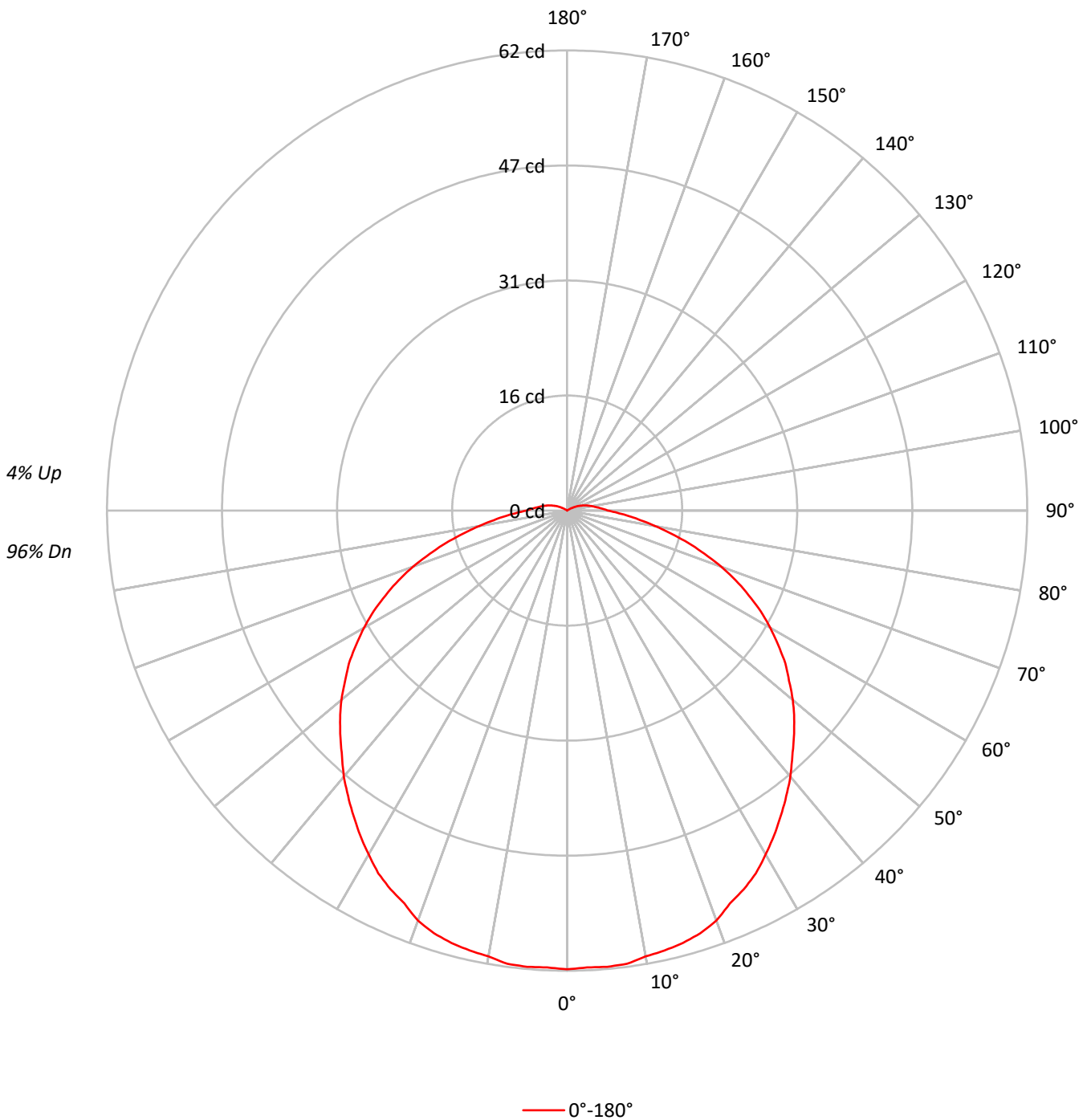
Input Watts (W): 28.6  
Input Voltage (V): 120.56  
Input Current (A<sub>in</sub>): 0.23689  
Voltage Rise (V): NR  
Power Factor: 1  
Total Harmonic Distortion (THDi): 0.96%  
Frequency (hertz): 60  
Stabilization Time: 0.25 HR  
Operation Time: 0.5 HR  
Ambient Temperature (°C): 25.2  
Test Distance: 25 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	0
RCR																				
0	65	65	65	65	63	63	63	63	60	60	60		57	57	57		54	54	54	52
1	58	55	53	50	56	54	51	49	51	49	47		48	47	45		46	45	44	42
2	53	48	44	40	51	46	43	40	44	41	38		42	39	37		40	38	36	34
3	48	42	37	33	46	41	36	33	39	35	32		37	34	31		35	32	30	29
4	44	37	32	28	42	36	31	27	34	30	27		33	29	26		31	28	26	24
5	40	33	28	24	39	32	27	23	30	26	23		29	25	23		28	25	22	21
6	37	29	24	21	36	29	24	20	27	23	20		26	23	20		25	22	19	18
7	34	27	22	18	33	26	21	18	25	21	18		24	20	17		23	20	17	16
8	32	24	19	16	31	24	19	16	23	19	16		22	18	15		21	18	15	14
9	30	22	18	14	29	22	17	14	21	17	14		20	17	14		19	16	14	13
10	28	20	16	13	27	20	16	13	19	15	13		19	15	13		18	15	12	11

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	4879
5°	4783
10°	4680
15°	4613
20°	4521
25°	4383
30°	4252
35°	4106
40°	3974
45°	3844
50°	3740
55°	3623
60°	3462
65°	3262
70°	3001
75°	2643
80°	2251
85°	1922



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	5.9	2.8	1.5
10°-20°	17.0	8.2	4.5
20°-30°	26.0	12.5	6.8
30°-40°	31.4	15.1	8.3
40°-50°	33.4	16.0	8.8
50°-60°	32.0	15.4	8.4
60°-70°	26.7	12.8	7.0
70°-80°	17.9	8.6	4.7
80°-90°	9.2	4.4	2.4
90°-100°	4.8	2.3	1.3
100°-110°	2.8	1.4	0.7
110°-120°	1.2	0.6	0.3
120°-130°	0.1	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	48.8	23.4	12.9
0°-40°	80.3	38.5	21.1
0°-60°	145.7	69.9	38.3
0°-90°	199.5	95.7	52.5
90°-120°	8.8	4.2	2.3
90°-150°	8.9	4.3	2.3
90°-180°	9.0	4.3	2.4
0°-180°	208.3	100.0	54.8

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	62	
5°	62	6
15°	60	17
25°	56	26
35°	50	31
45°	43	33
55°	36	32
65°	27	27
75°	17	18
85°	8	8
90°	6	3
95°	4	3
105°	3	3
115°	1	1
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	61.8
2.5°	61.6
5°	61.7
7.5°	61.6
10°	61.0
12.5°	60.7
15°	60.3
17.5°	59.7
20°	58.8
22.5°	57.3
25°	56.3
27.5°	55.1
30°	53.5
32.5°	51.9
35°	50.2
37.5°	48.5
40°	46.8
42.5°	44.9
45°	43.2
47.5°	41.5
50°	39.7
52.5°	37.7
55°	35.9
57.5°	33.7
60°	31.6
62.5°	29.4
65°	27.0
67.5°	24.6
70°	22.1
72.5°	19.4
75°	16.9
77.5°	14.3
80°	12.1
82.5°	10.0
85°	8.3
87.5°	6.7
90°	5.5
92.5°	4.9
95°	4.3
97.5°	3.8
100°	3.4
102.5°	3.0
105°	2.7
107.5°	2.3
110°	1.9



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	1.6
115°	1.2
117.5°	0.9
120°	0.6
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)