

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: P27453

Luminaire Tested: **6121WH-E7ICAT \_ H7ICAT-43WA19**

Test Date: 02/03/16



**Test Information**

Test Method: LM-41-14  
Report Number: P27453  
Test Lab: INNOVATION CENTER-P2  
Test Date: 02/03/16  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: 6121WH-E7ICAT \_ H7ICAT-43WA19  
Description: H7 6" RECESSED INCANDESCENT WITH SHALLOW FULL CONE WHITE REFLECTOR AND WHITE SELF-FLANGE RING  
Light Source: (1) GE MEDIUM BASE INCANDESCENT 43A/HAL/SSW/4  
Ballast/Driver: (1) CHROMA AC POWER SUPPLY IN0061

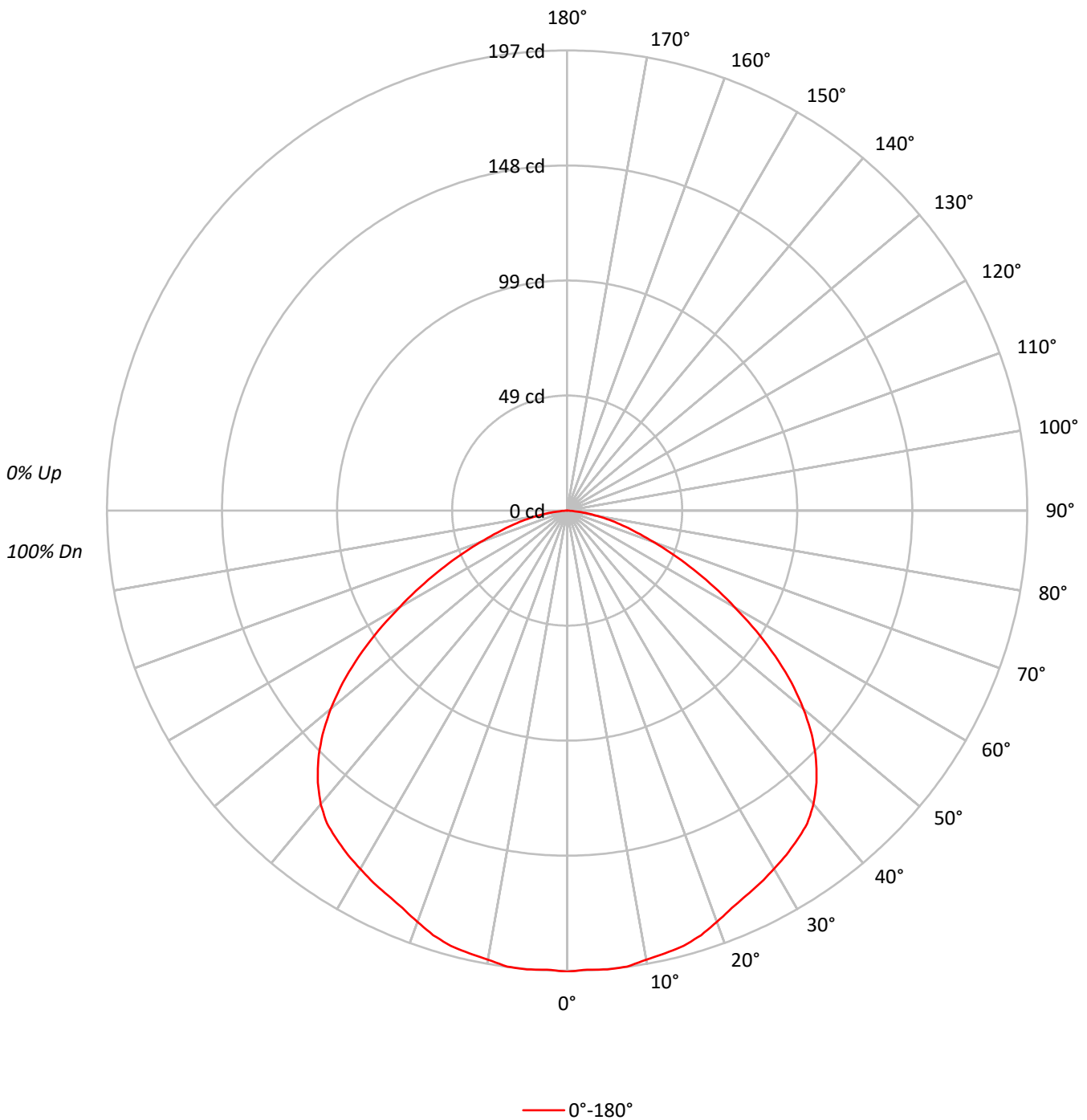
**Summary**

Lumens per Lamp: 785 (1 lamp)  
Luminaire Lumens: 568.0 lumens  
Efficiency: 72.4%  
Efficacy: 13.1 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.46  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 43.2  
Input Voltage (V): 120.05  
Input Current (A<sub>in</sub>): 0.35966  
Voltage Rise (V): NR  
Power Factor: 1  
Total Harmonic Distortion (THDi): 0.81%  
Frequency (hertz): 60  
Stabilization Time: 0.25 HR  
Operation Time: 0.5 HR  
Ambient Temperature (°C): 24.9  
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	86	86	86	86	84	84	84	84	80	80	80	77	77	77	74	74	74	72
1	79	76	73	71	77	74	72	70	71	69	67	69	67	65	66	65	63	62
2	72	67	62	58	71	65	61	57	63	59	56	61	58	55	58	56	54	52
3	66	59	53	49	64	58	52	48	56	51	47	54	50	47	52	49	46	44
4	61	52	46	41	59	51	45	41	49	44	40	48	43	40	46	42	39	38
5	56	47	40	36	54	46	40	35	44	39	35	43	38	35	42	37	34	33
6	51	42	36	31	50	41	35	31	40	35	31	39	34	30	38	33	30	29
7	48	38	32	27	46	37	31	27	36	31	27	35	30	27	34	30	27	25
8	44	35	28	24	43	34	28	24	33	28	24	32	27	24	31	27	24	22
9	41	32	26	22	40	31	26	22	30	25	22	30	25	22	29	25	21	20
10	39	29	24	20	38	29	23	20	28	23	20	27	23	19	27	22	19	18

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

	0°
0°	10822
5°	10852
10°	10866
15°	10948
20°	10933
25°	10991
30°	11211
35°	11504
40°	11743
45°	11683
50°	11266
55°	10399
60°	9089
65°	7731
70°	6315
75°	5210
80°	4041
85°	2076



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	18.8	3.3	2.4
10°-20°	54.4	9.6	6.9
20°-30°	84.1	14.8	10.7
30°-40°	107.6	18.9	13.7
40°-50°	115.6	20.4	14.7
50°-60°	96.8	17.0	12.3
60°-70°	59.5	10.5	7.6
70°-80°	26.5	4.7	3.4
80°-90°	4.8	0.8	0.6
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	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°	157.2	27.7	20.0
0°-40°	264.8	46.6	33.7
0°-60°	477.2	84.0	60.8
0°-90°	568.0	100.0	72.4
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	568.0	100.0	72.4

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	197	
5°	197	19
15°	193	54
25°	182	84
35°	172	108
45°	151	116
55°	109	97
65°	60	59
75°	25	26
85°	3	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	197.4
2.5°	196.7
5°	197.2
7.5°	196.9
10°	195.2
12.5°	194.1
15°	192.9
17.5°	190.6
20°	187.4
22.5°	184.2
25°	181.7
27.5°	179.6
30°	177.1
32.5°	174.7
35°	171.9
37.5°	168.9
40°	164.1
42.5°	158.0
45°	150.7
47.5°	142.1
50°	132.1
52.5°	121.1
55°	108.8
57.5°	96.0
60°	82.9
62.5°	71.0
65°	59.6
67.5°	49.1
70°	39.4
72.5°	31.3
75°	24.6
77.5°	18.5
80°	12.8
82.5°	7.9
85°	3.3
87.5°	0.1
90°	0.0

(END OF REPORT)