

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: P27461

Luminaire Tested: **6230TBZ-E7ICAT \_ H7ICAT-72WA19**

Test Date: 02/03/16



**Test Information**

Test Method: LM-41-14  
Report Number: P27461  
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: 6230TBZ-E7ICAT \_ H7ICAT-72WA19  
Description: H7 6" RECESSED INCANDESCENT WITH SQUIRCLE FROST LENS AND  
TUSCAN BRONZE METAL RING, SHOWERLIGHT  
Light Source: (1) GE MEDIUM BASE INCANDESCENT  
72A19/EV/LL  
Ballast/Driver: (1) CHROMA AC POWER SUPPLY  
IN0061

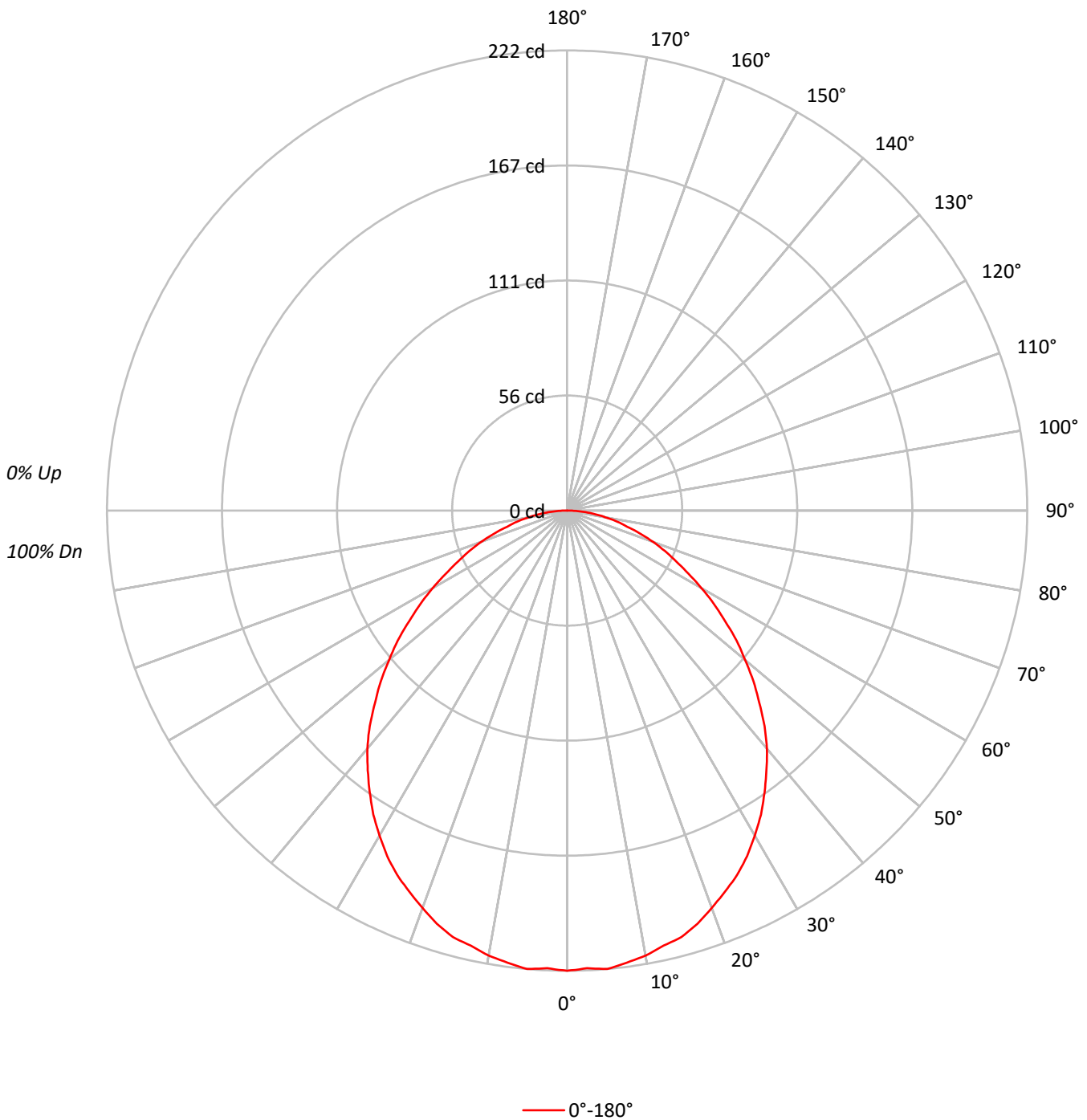
**Summary**

Lumens per Lamp: 1120 (1 lamp)  
Luminaire Lumens: 559.1 lumens  
Efficiency: 49.9%  
Efficacy: 7.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.31  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 72.4  
Input Voltage (V): 120.43  
Input Current (A<sub>in</sub>): 0.60158  
Voltage Rise (V): NR  
Power Factor: 1  
Total Harmonic Distortion (THDi): 0.60%  
Frequency (hertz): 60  
Stabilization Time: 0.25 HR  
Operation Time: 0.5 HR  
Ambient Temperature (°C): 24.8  
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	59	59	59	59	58	58	58	58	55	55	55		53	53	53		51	51	51	50
1	55	52	50	48	53	51	49	48	49	47	46		47	46	45		45	44	43	42
2	50	46	43	40	49	45	42	39	43	41	38		42	39	38		40	38	37	36
3	46	41	37	33	44	40	36	33	38	35	33		37	34	32		36	33	31	30
4	42	36	32	29	41	35	31	28	34	31	28		33	30	28		32	29	27	26
5	39	32	28	25	38	32	28	25	31	27	24		30	27	24		29	26	24	23
6	36	29	25	22	35	29	25	22	28	24	21		27	24	21		26	23	21	20
7	33	27	22	19	32	26	22	19	25	22	19		25	21	19		24	21	19	18
8	31	24	20	17	30	24	20	17	23	20	17		23	19	17		22	19	17	16
9	29	22	18	16	28	22	18	16	22	18	16		21	18	15		20	18	15	14
10	27	21	17	14	27	20	17	14	20	16	14		19	16	14		19	16	14	13

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

	0°
0°	12170
5°	12217
10°	12135
15°	12089
20°	11901
25°	11735
30°	11457
35°	11109
40°	10734
45°	10156
50°	9552
55°	8889
60°	8223
65°	7524
70°	7052
75°	6354
80°	5998
85°	5661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	21.0	3.8	1.9
10°-20°	59.9	10.7	5.3
20°-30°	89.2	16.0	8.0
30°-40°	103.8	18.6	9.3
40°-50°	101.2	18.1	9.0
50°-60°	83.5	14.9	7.5
60°-70°	58.0	10.4	5.2
70°-80°	32.6	5.8	2.9
80°-90°	9.9	1.8	0.9
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°	170.1	30.4	15.2
0°-40°	273.9	49.0	24.5
0°-60°	458.6	82.0	41.0
0°-90°	559.1	100.0	49.9
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°	559.1	100.0	49.9

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	222	
5°	222	21
15°	213	60
25°	194	89
35°	166	104
45°	131	101
55°	93	83
65°	58	58
75°	30	33
85°	9	10
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	222
2.5°	221
5°	222
7.5°	220
10°	218
12.5°	215
15°	213
17.5°	209
20°	204
22.5°	199
25°	194
27.5°	188
30°	181
32.5°	174
35°	166
37.5°	158
40°	150
42.5°	141
45°	131
47.5°	122
50°	112
52.5°	103
55°	93
57.5°	84
60°	75
62.5°	66
65°	58
67.5°	51
70°	44
72.5°	37
75°	30
77.5°	25
80°	19
82.5°	14
85°	9
87.5°	4
90°	0

(END OF REPORT)