

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: P27460

Luminaire Tested: **6230TBZ-E7ICAT \_ H7ICAT-60WA19**

Test Date: 02/03/16



**Test Information**

Test Method: LM-41-14  
Report Number: P27460  
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-60WA19  
Description: H7 6" RECESSED INCANDESCENT WITH SQUIRCLE FROST LENS AND  
TUSCAN BRONZE METAL RING, SHOWERLIGHT  
Light Source: (1) GE MEDIUM BASE INCANDESCENT  
60A19/IF  
Ballast/Driver: (1) CHROMA AC POWER SUPPLY  
IN0061

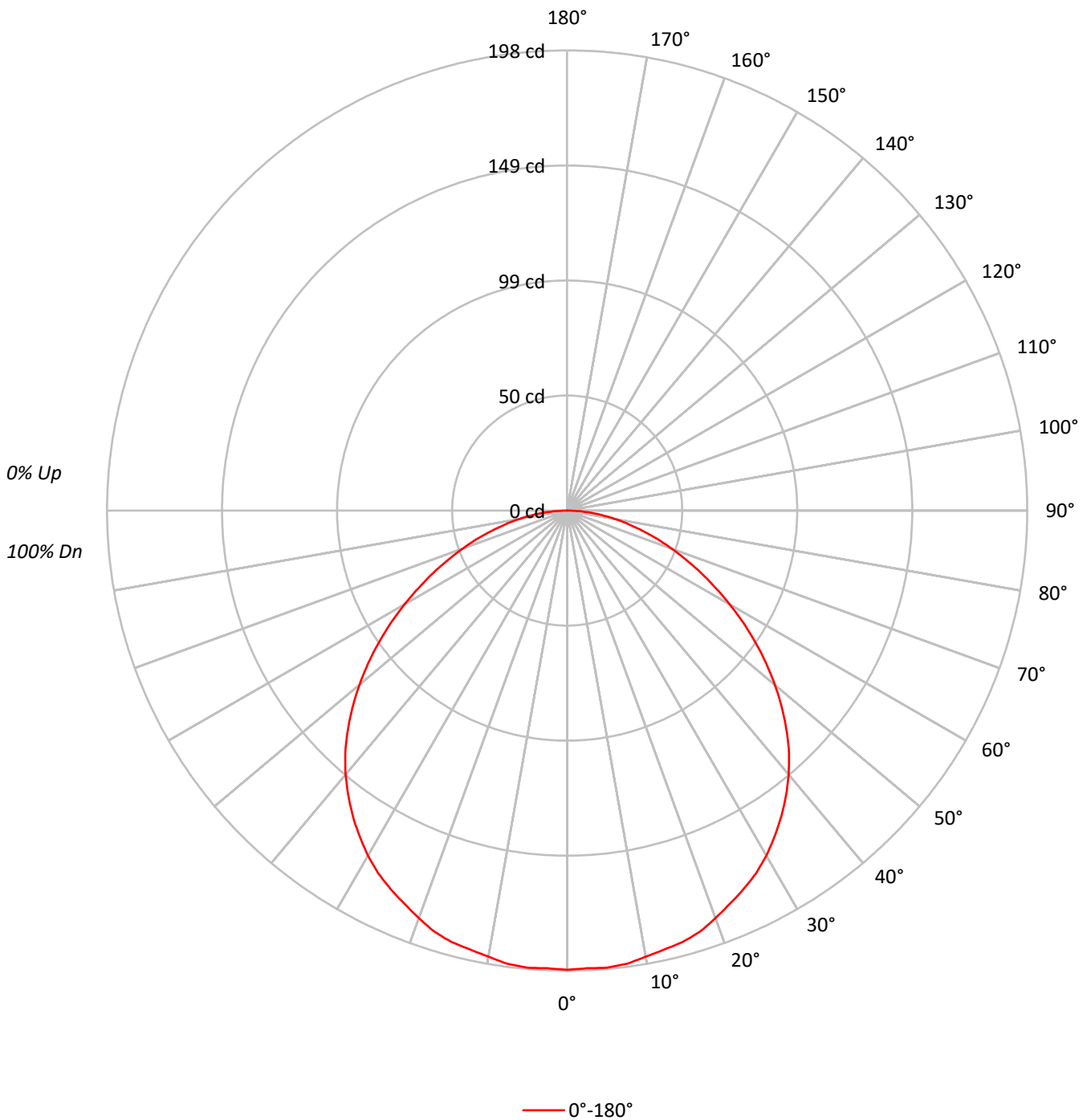
**Summary**

Lumens per Lamp: 960 (1 lamp)  
Luminaire Lumens: 557.1 lumens  
Efficiency: 58.0%  
Efficacy: 9.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.38  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 59.8  
Input Voltage (V): 120.27  
Input Current (A<sub>in</sub>): 0.49741  
Voltage Rise (V): NR  
Power Factor: 1  
Total Harmonic Distortion (THDi): 0.63%  
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	69	69	69	69	67	67	67	67	64	64	64		62	62	62		59	59	59	58
1	63	60	58	56	62	59	57	55	57	55	53		54	53	51		52	51	50	49
2	58	53	49	46	56	52	48	45	50	47	44		48	45	43		46	44	42	41
3	52	46	42	38	51	46	41	38	44	40	37		42	39	36		41	38	36	34
4	48	41	36	32	47	40	36	32	39	35	32		38	34	31		36	33	31	29
5	44	37	32	28	43	36	31	28	35	31	27		34	30	27		33	29	27	26
6	41	33	28	24	40	33	28	24	32	27	24		31	27	24		30	26	24	22
7	38	30	25	21	37	30	25	21	29	24	21		28	24	21		27	24	21	20
8	35	27	23	19	34	27	22	19	26	22	19		26	22	19		25	21	19	18
9	33	25	20	17	32	25	20	17	24	20	17		24	20	17		23	19	17	16
10	31	23	19	16	30	23	19	16	22	18	16		22	18	15		21	18	15	14

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

	0°
0°	10832
5°	10863
10°	10849
15°	10908
20°	10886
25°	10870
30°	10850
35°	10755
40°	10613
45°	10350
50°	9953
55°	9452
60°	8859
65°	8250
70°	7662
75°	7117
80°	6598
85°	5975



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	18.8	3.4	2.0
10°-20°	54.2	9.7	5.6
20°-30°	82.9	14.9	8.6
30°-40°	100.5	18.0	10.5
40°-50°	102.8	18.5	10.7
50°-60°	88.4	15.9	9.2
60°-70°	63.2	11.3	6.6
70°-80°	35.7	6.4	3.7
80°-90°	10.7	1.9	1.1
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°	155.8	28.0	16.2
0°-40°	256.3	46.0	26.7
0°-60°	447.4	80.3	46.6
0°-90°	557.1	100.0	58.0
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°	557.1	100.0	58.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	198	
5°	197	19
15°	192	54
25°	180	83
35°	161	100
45°	134	103
55°	99	88
65°	64	63
75°	34	36
85°	10	11
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	197.6
2.5°	197.1
5°	197.4
7.5°	196.7
10°	194.9
12.5°	193.4
15°	192.2
17.5°	190.0
20°	186.6
22.5°	183.1
25°	179.7
27.5°	176.0
30°	171.4
32.5°	166.2
35°	160.7
37.5°	154.7
40°	148.3
42.5°	141.3
45°	133.5
47.5°	125.3
50°	116.7
52.5°	107.9
55°	98.9
57.5°	89.8
60°	80.8
62.5°	72.0
65°	63.6
67.5°	55.5
70°	47.8
72.5°	40.6
75°	33.6
77.5°	27.0
80°	20.9
82.5°	15.2
85°	9.5
87.5°	4.3
90°	0.0

(END OF REPORT)