

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: P27457

Luminaire Tested: **6150TBZ-E7ICAT \_ H7ICAT-60WA19**

Test Date: 02/03/16



**Test Information**

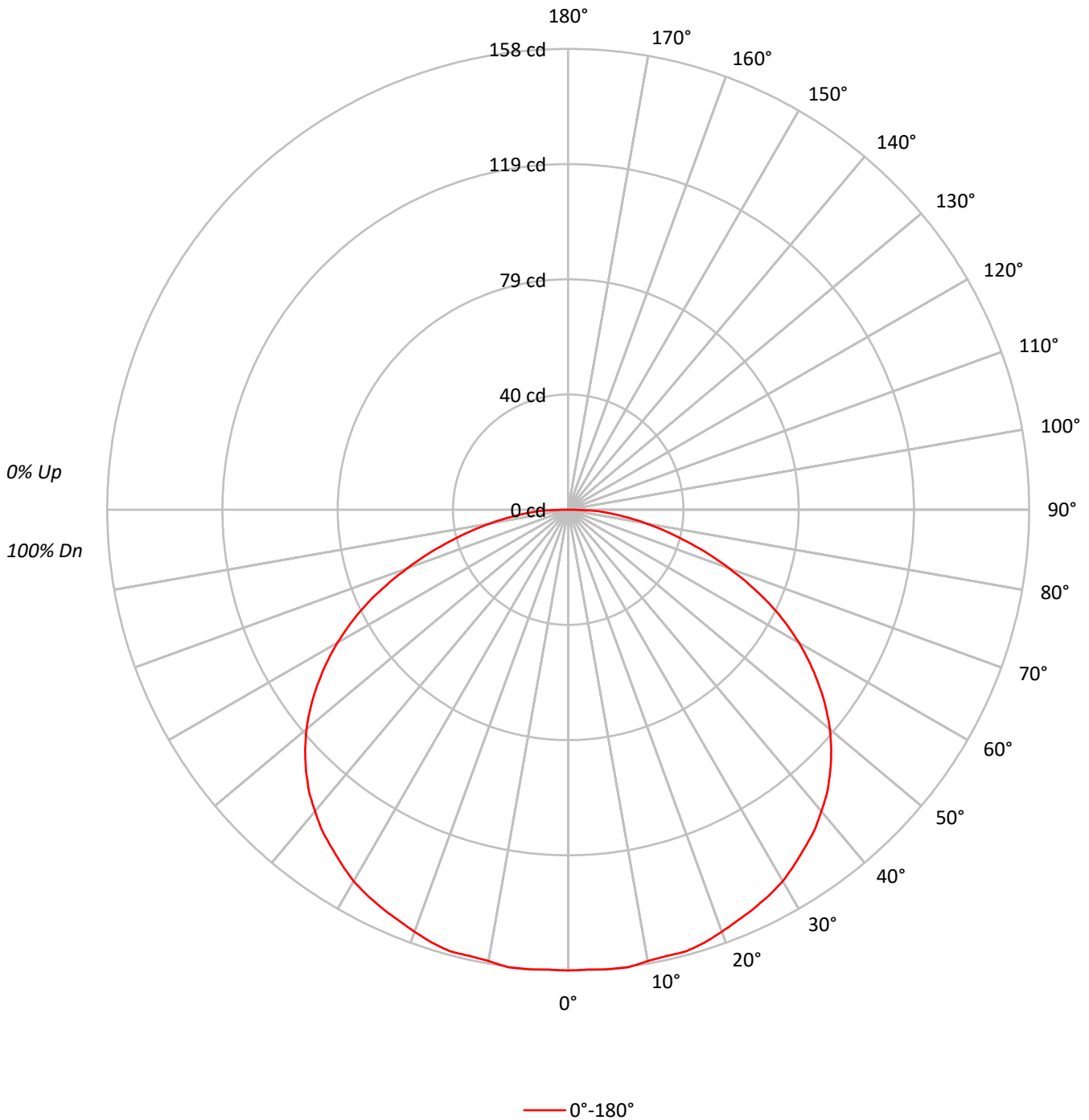
Test Method: LM-41-14  
Report Number: P27457  
Test Lab: INNOVATION CENTER-P2  
Test Date: 02/03/16  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: 6150TBZ-E7ICAT \_ H7ICAT-60WA19  
Description: H7 6" RECESSED INCANDESCENT WITH DOME FROST LENS AND TUSCAN BRONZE PLASTIC SF 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: 544.5 lumens  
Efficiency: 56.7%  
Efficacy: 9.1 lumens/watt  
Spacing Criteria (0/90/45): 1.38 / 1.38 / 1.51  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 59.8  
Input Voltage (V): 120.27  
Input Current (Ain): 0.49747  
Voltage Rise (V): NR  
Power Factor: 1  
Total Harmonic Distortion (THDi): 0.61%  
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	68	68	68	68	66	66	66	66	63	63	63		60	60	60		58	58	58	57
1	61	58	56	53	60	57	55	52	54	53	51		52	51	49		50	49	48	46
2	55	50	46	43	54	49	45	42	47	44	41		45	43	40		44	41	39	38
3	50	44	39	35	49	43	38	35	41	37	34		40	36	33		38	35	33	32
4	46	39	33	29	44	38	33	29	36	32	29		35	31	28		34	31	28	27
5	42	34	29	25	41	34	29	25	32	28	25		31	27	24		30	27	24	23
6	39	31	25	22	37	30	25	21	29	25	21		28	24	21		27	24	21	20
7	36	28	23	19	35	27	22	19	26	22	19		25	22	19		25	21	18	17
8	33	25	20	17	32	25	20	17	24	20	17		23	19	16		23	19	16	15
9	31	23	18	15	30	23	18	15	22	18	15		21	18	15		21	17	15	14
10	29	21	17	14	28	21	16	13	20	16	13		20	16	13		19	16	13	12

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

	0°
0°	8662
5°	8706
10°	8745
15°	8893
20°	8984
25°	9121
30°	9312
35°	9463
40°	9661
45°	9846
50°	9987
55°	10035
60°	10021
65°	9858
70°	9393
75°	8896
80°	8587
85°	9120



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	15.1	2.8	1.6
10°-20°	44.2	8.1	4.6
20°-30°	69.7	12.8	7.3
30°-40°	88.6	16.3	9.2
40°-50°	97.9	18.0	10.2
50°-60°	93.7	17.2	9.8
60°-70°	74.8	13.7	7.8
70°-80°	44.7	8.2	4.7
80°-90°	15.8	2.9	1.6
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°	129.0	23.7	13.4
0°-40°	217.6	40.0	22.7
0°-60°	409.3	75.2	42.6
0°-90°	544.5	100.0	56.7
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°	544.5	100.0	56.7

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	158	
5°	158	15
15°	157	44
25°	151	70
35°	141	89
45°	127	98
55°	105	94
65°	76	75
75°	42	45
85°	14	16
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	158.0
2.5°	157.8
5°	158.2
7.5°	158.2
10°	157.1
12.5°	156.7
15°	156.7
17.5°	155.6
20°	154.0
22.5°	152.3
25°	150.8
27.5°	149.1
30°	147.1
32.5°	144.3
35°	141.4
37.5°	138.6
40°	135.0
42.5°	131.4
45°	127.0
47.5°	122.3
50°	117.1
52.5°	111.3
55°	105.0
57.5°	98.4
60°	91.4
62.5°	83.9
65°	76.0
67.5°	67.3
70°	58.6
72.5°	50.3
75°	42.0
77.5°	34.3
80°	27.2
82.5°	20.4
85°	14.5
87.5°	9.5
90°	0.0

(END OF REPORT)