

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: P27433

Luminaire Tested: **5150TBZ-E5ICAT _ H5ICAT-60WA19**

Test Date: 02/02/16

Test Information

Test Method: LM-41-14
Report Number: P27433
Test Lab: INNOVATION CENTER-P2
Test Date: 02/02/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: 5150TBZ-E5ICAT _ H5ICAT-60WA19
Description: H5 5" RECESSED INCANDESCENT WITH FLAT 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: 472.8 lumens
Efficiency: 49.3%
Efficacy: 7.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.43 / 1.53
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

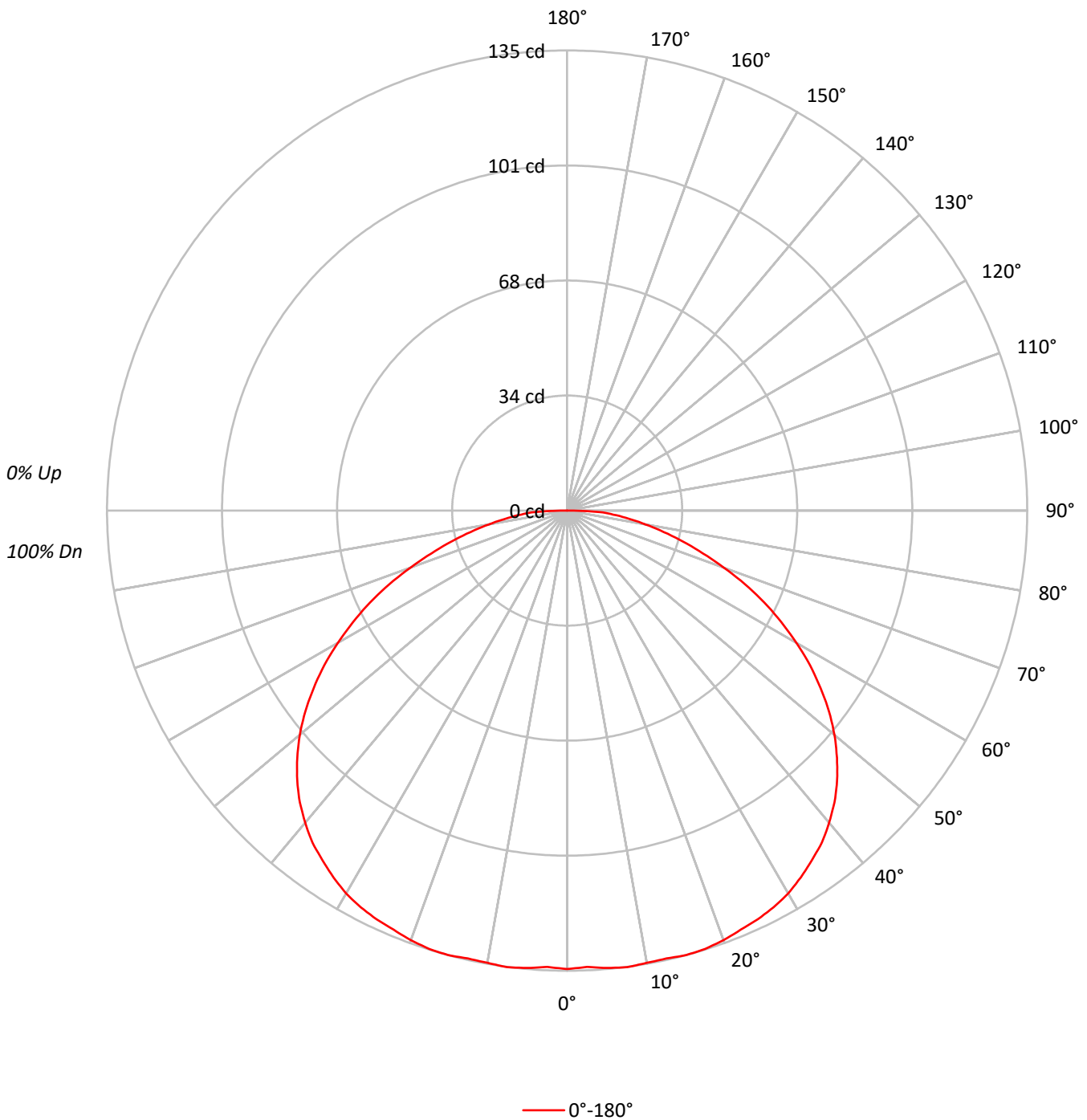
Input Watts (W): 59.8
Input Voltage (V): 120.27
Input Current (A_{in}): 0.49748
Voltage Rise (V): NR
Power Factor: 1
Total Harmonic Distortion (THDi): 0.64%
Frequency (hertz): 60
Stabilization Time: 0.25 HR
Operation Time: 0.5 HR
Ambient Temperature (°C): 24.4
Test Distance: 25 FT



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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	57	57	57	57	55	55	55		52	52	52		50	50	50	49
1	53	51	48	46	52	49	47	45	47	46	44		45	44	43		44	42	41	40
2	48	44	40	37	47	43	39	37	41	38	36		39	37	35		38	36	34	33
3	44	38	34	30	42	37	33	30	36	32	30		34	32	29		33	31	29	27
4	40	34	29	26	39	33	29	25	32	28	25		30	27	25		29	27	24	23
5	36	30	25	22	35	29	25	22	28	24	21		27	24	21		26	23	21	20
6	34	27	22	19	33	26	22	19	25	21	19		24	21	18		24	21	18	17
7	31	24	20	17	30	24	19	16	23	19	16		22	19	16		22	18	16	15
8	29	22	18	15	28	22	17	15	21	17	14		20	17	14		20	17	14	13
9	27	20	16	13	26	20	16	13	19	16	13		19	15	13		18	15	13	12
10	25	18	14	12	25	18	14	12	18	14	12		17	14	12		17	14	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10618
5°	10674
10°	10797
15°	11033
20°	11265
25°	11524
30°	11823
35°	12065
40°	12325
45°	12504
50°	12576
55°	12497
60°	12267
65°	11917
70°	11287
75°	10736
80°	10592
85°	12318



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	12.9	2.7	1.3
10°-20°	38.2	8.1	4.0
20°-30°	61.1	12.9	6.4
30°-40°	78.4	16.6	8.2
40°-50°	86.3	18.2	9.0
50°-60°	81.0	17.1	8.4
60°-70°	62.9	13.3	6.6
70°-80°	37.5	7.9	3.9
80°-90°	14.5	3.1	1.5
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°	112.1	23.7	11.7
0°-40°	190.6	40.3	19.9
0°-60°	357.9	75.7	37.3
0°-90°	472.8	100.0	49.3
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°	472.8	100.0	49.3

CANDELA DISTRIBUTION:

	0°	Flux
0°	134	
5°	135	13
15°	135	38
25°	132	61
35°	125	78
45°	112	86
55°	91	81
65°	64	63
75°	35	38
85°	14	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	134.5
2.5°	134.0
5°	134.7
7.5°	135.1
10°	134.7
12.5°	134.6
15°	135.0
17.5°	134.8
20°	134.1
22.5°	133.1
25°	132.3
27.5°	131.2
30°	129.7
32.5°	127.6
35°	125.2
37.5°	122.8
40°	119.6
42.5°	116.1
45°	112.0
47.5°	107.4
50°	102.4
52.5°	96.9
55°	90.8
57.5°	84.5
60°	77.7
62.5°	70.8
65°	63.8
67.5°	56.5
70°	48.9
72.5°	41.8
75°	35.2
77.5°	29.1
80°	23.3
82.5°	18.3
85°	13.6
87.5°	9.7
90°	0.0

(END OF REPORT)