

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: P27428

Luminaire Tested: **5120TBZ-E5ICAT _ H5ICAT-60WA19**

Test Date: 02/02/16

Test Information

Test Method: LM-41-14
Report Number: P27428
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: 5120TBZ-E5ICAT _ H5ICAT-60WA19
Description: H5 5" RECESSED INCANDESCENT WITH FULL CONE TUSCAN BRONZE REFLECTOR AND TUSCAN BRONZE SELF-FLANGE RING
Light Source: (1) GE MEDIUM BASE INCANDESCENT 60A19/IF
Ballast/Driver: (1) CHROMA AC POWER SUPPLY IN0061

Summary

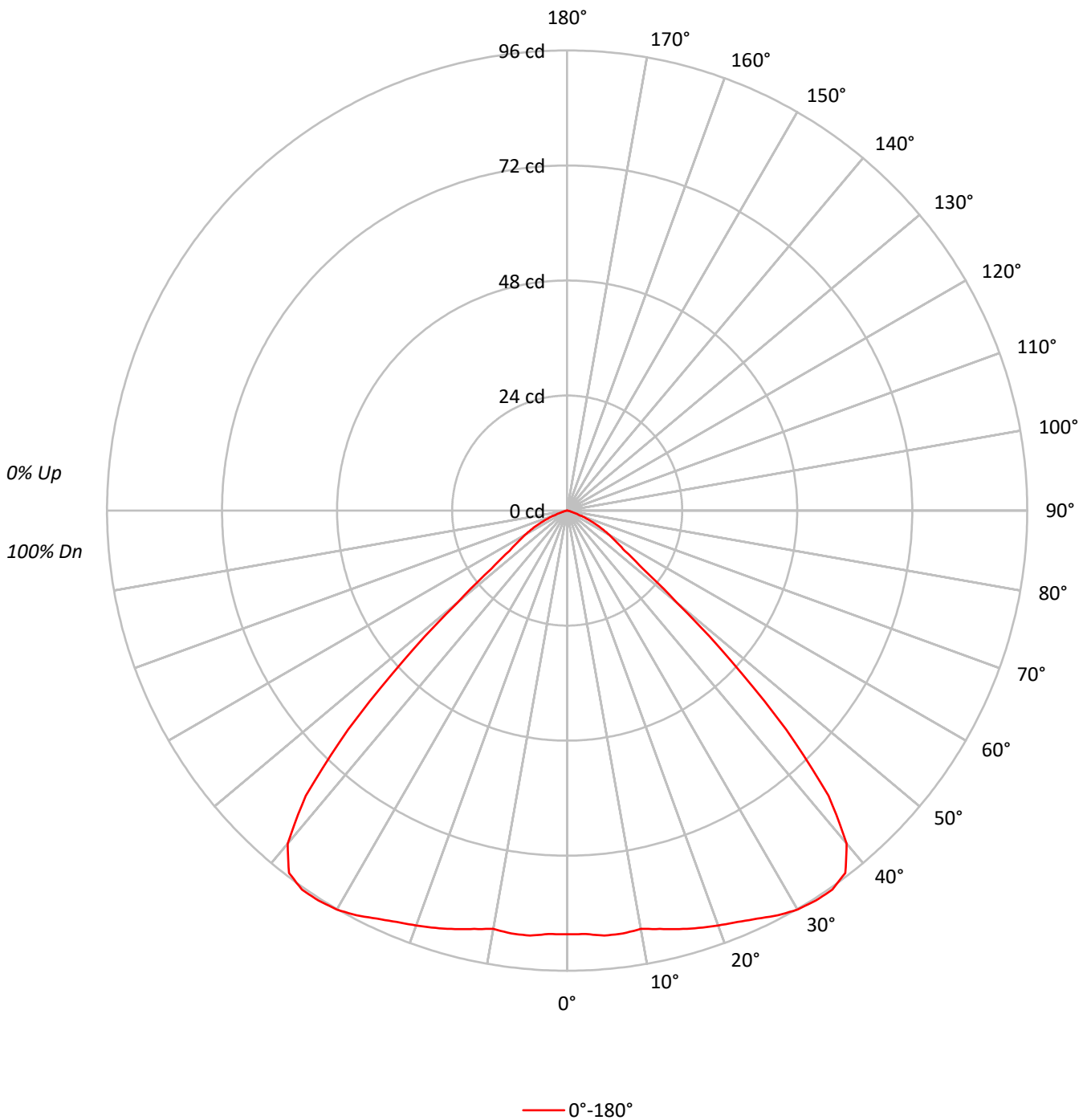
Lumens per Lamp: 960 (1 lamp)
Luminaire Lumens: 207.9 lumens
Efficiency: 21.7%
Efficacy: 3.5 lumens/watt
Spacing Criteria (0/90/45): 1.6 / 1.6 / 1.42
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 59.8
Input Voltage (V): 120.27
Input Current (A_{in}): 0.49745
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): 24.8
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	26	26	26	26	25	25	25	25	24	24	24	23	23	23	22	22	22	22
1	24	23	23	22	24	23	22	22	22	22	21	21	21	21	21	20	20	20
2	23	21	20	19	22	21	20	19	20	19	18	19	19	18	19	18	18	17
3	21	19	18	17	20	19	18	17	18	17	16	18	17	16	17	16	16	15
4	19	17	16	15	19	17	16	15	17	15	14	16	15	14	16	15	14	14
5	18	16	14	13	18	16	14	13	15	14	13	15	14	13	14	13	12	12
6	17	14	13	12	16	14	13	11	14	12	11	13	12	11	13	12	11	11
7	16	13	11	10	15	13	11	10	13	11	10	12	11	10	12	11	10	10
8	15	12	10	9	14	12	10	9	12	10	9	11	10	9	11	10	9	9
9	14	11	9	8	13	11	9	8	11	9	8	11	9	8	10	9	8	8
10	13	10	9	8	13	10	9	8	10	9	8	10	8	8	10	8	8	7

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6978
5°	7053
10°	7102
15°	7388
20°	7737
25°	8179
30°	8760
35°	9300
40°	9347
45°	7212
50°	3672
55°	2023
60°	1595
65°	1177
70°	577
75°	244
80°	136
85°	91



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	8.5	4.1	0.9
10°-20°	25.7	12.3	2.7
20°-30°	43.6	21.0	4.5
30°-40°	59.9	28.8	6.2
40°-50°	48.1	23.1	5.0
50°-60°	14.8	7.1	1.5
60°-70°	6.2	3.0	0.6
70°-80°	1.1	0.5	0.1
80°-90°	0.1	0.1	0.0
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°	77.7	37.4	8.1
0°-40°	137.6	66.2	14.3
0°-60°	200.5	96.4	20.9
0°-90°	207.9	100.0	21.7
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°	207.9	100.0	21.7

CANDELA DISTRIBUTION:

	0°	Flux
0°	88	
5°	89	8
15°	90	26
25°	94	44
35°	96	60
45°	65	48
55°	15	15
65°	6	6
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	88.4
2.5°	88.4
5°	89.0
7.5°	89.0
10°	88.6
12.5°	89.4
15°	90.4
17.5°	91.3
20°	92.1
22.5°	92.9
25°	93.9
27.5°	95.2
30°	96.1
32.5°	96.5
35°	96.5
37.5°	95.3
40°	90.7
42.5°	80.7
45°	64.6
47.5°	46.2
50°	29.9
52.5°	19.9
55°	14.7
57.5°	12.1
60°	10.1
62.5°	8.2
65°	6.3
67.5°	4.3
70°	2.5
72.5°	1.4
75°	0.8
77.5°	0.5
80°	0.3
82.5°	0.2
85°	0.1
87.5°	0.1
90°	0.0

(END OF REPORT)