

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: P27434

Luminaire Tested: **5230TBZ-E5ICAT _ H5ICAT-60WA19**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P27434
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: 5230TBZ-E5ICAT _ H5ICAT-60WA19
Description: H5 5" RECESSED INCANDESCENT WITH SQUARE 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: 486.3 lumens
Efficiency: 50.7%
Efficacy: 8.1 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.41
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

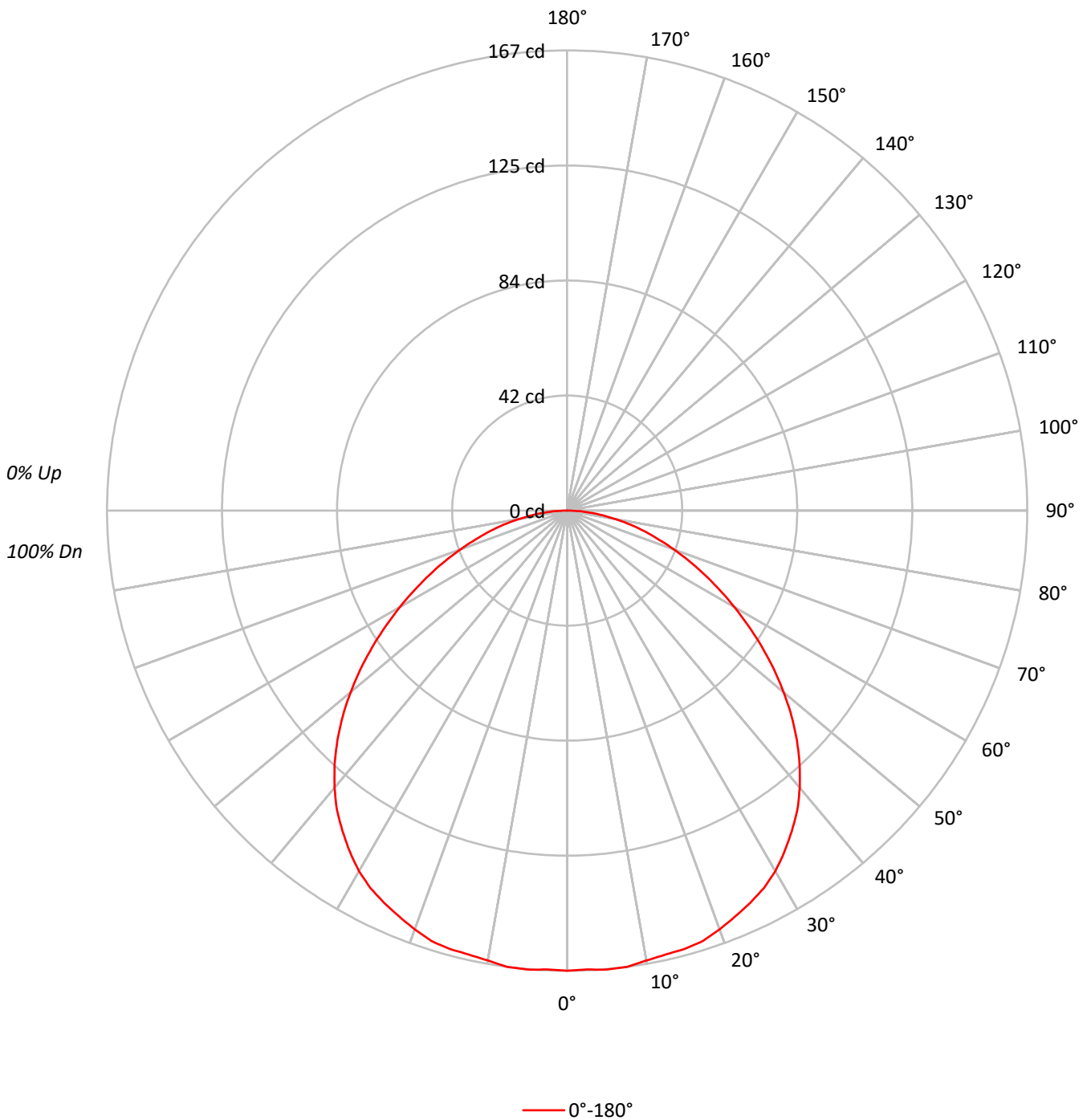
Input Watts (W): 59.9
Input Voltage (V): 120.34
Input Current (Ain): 0.49750
Voltage Rise (V): NR
Power Factor: 1
Total Harmonic Distortion (THDi): 0.63%
Frequency (hertz): 60
Stabilization Time: 0.25 HR
Operation Time: 0.5 HR
Ambient Temperature (°C): 24.4
Test Distance: 25 FT



TEST NUMBER: P27434

CATALOG NUMBER: 5230TBZ-E5ICAT _ H5ICAT-60WA19

Luminous Intensity Polar Plot





TEST NUMBER: P27434

CATALOG NUMBER: 5230TBZ-E5ICAT _ H5ICAT-60WA19

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	60	60	60	60	59	59	59	59	56	56	56		54	54	54		52	52	52	51
1	55	53	51	49	54	52	50	48	49	48	46		47	46	45		46	45	44	43
2	50	46	43	40	49	45	42	39	43	41	38		42	39	38		40	38	37	36
3	46	41	36	33	45	40	36	33	38	35	32		37	34	32		36	33	31	30
4	42	36	32	28	41	35	31	28	34	30	28		33	30	27		32	29	27	26
5	39	32	28	24	38	32	27	24	30	27	24		29	26	24		29	26	23	22
6	36	29	24	21	35	28	24	21	28	24	21		27	23	21		26	23	21	19
7	33	26	22	19	32	26	22	19	25	21	18		24	21	18		24	21	18	17
8	31	24	20	17	30	24	19	17	23	19	17		22	19	16		22	19	16	15
9	29	22	18	15	28	22	18	15	21	17	15		21	17	15		20	17	15	14
10	27	20	16	14	26	20	16	14	19	16	13		19	16	13		19	16	13	12

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13183
5°	13249
10°	13290
15°	13460
20°	13584
25°	13684
30°	13773
35°	13694
40°	13530
45°	13162
50°	12600
55°	11877
60°	11068
65°	10292
70°	9509
75°	8845
80°	8092
85°	7337



TEST NUMBER: P27434

CATALOG NUMBER: 5230TBZ-E5ICAT _ H5ICAT-60WA19

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	15.9	3.3	1.7
10°-20°	46.5	9.6	4.8
20°-30°	72.5	14.9	7.5
30°-40°	88.9	18.3	9.3
40°-50°	90.7	18.7	9.5
50°-60°	77.2	15.9	8.0
60°-70°	54.7	11.2	5.7
70°-80°	30.8	6.3	3.2
80°-90°	9.1	1.9	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°	134.9	27.7	14.1
0°-40°	223.8	46.0	23.3
0°-60°	391.7	80.5	40.8
0°-90°	486.3	100.0	50.7
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°	486.3	100.0	50.7

CANDELA DISTRIBUTION:

	0°	Flux
0°	167	
5°	167	16
15°	165	47
25°	157	72
35°	142	89
45°	118	91
55°	86	77
65°	55	55
75°	29	31
85°	8	9
90°	0	



TEST NUMBER: P27434

CATALOG NUMBER: 5230TBZ-E5ICAT _ H5ICAT-60WA19

CANDELA DISTRIBUTION (FULL):

0°	
0°	167.0
2.5°	166.7
5°	167.2
7.5°	167.0
10°	165.8
12.5°	165.0
15°	164.7
17.5°	163.8
20°	161.7
22.5°	159.4
25°	157.1
27.5°	154.5
30°	151.1
32.5°	146.8
35°	142.1
37.5°	137.2
40°	131.3
42.5°	124.9
45°	117.9
47.5°	110.5
50°	102.6
52.5°	94.5
55°	86.3
57.5°	78.1
60°	70.1
62.5°	62.4
65°	55.1
67.5°	48.0
70°	41.2
72.5°	34.9
75°	29.0
77.5°	23.4
80°	17.8
82.5°	12.9
85°	8.1
87.5°	3.6
90°	0.0

(END OF REPORT)