

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: P27427

Luminaire Tested: **5120SN-E5ICAT \_ H5ICAT-60WA19**

Test Date: 02/02/16

**Test Information**

Test Method: LM-41-14  
Report Number: P27427  
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: 5120SN-E5ICAT \_ H5ICAT-60WA19  
Description: H5 5" RECESSED INCANDESCENT WITH FULL CONE SATIN NICKEL REFLECTOR AND SATIN NICKEL SELF-FLANGE  
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: 309.4 lumens  
Efficiency: 32.2%  
Efficacy: 5.2 lumens/watt  
Spacing Criteria (0/90/45): 1.71 / 1.71 / 1.5  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

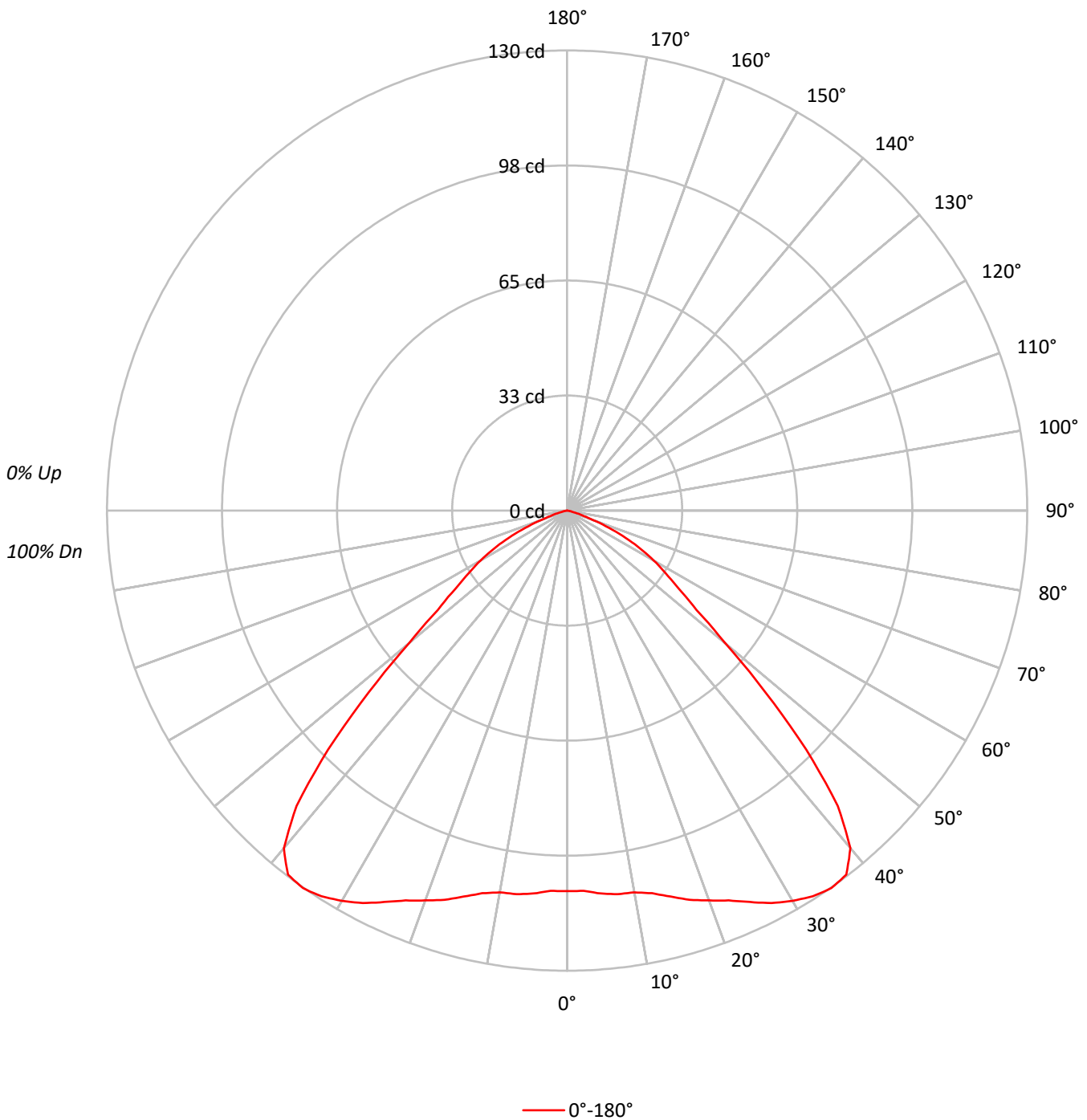
Input Watts (W): 59.8  
Input Voltage (V): 120.28  
Input Current (A<sub>in</sub>): 0.49754  
Voltage Rise (V): NR  
Power Factor: 1  
Total Harmonic Distortion (THDi): 0.63%  
Frequency (hertz): 60  
Stabilization Time: 0.25 HR  
Operation Time: 0.5 HR  
Ambient Temperature (°C): 24.8  
Test Distance: 25 FT



TEST NUMBER: P27427

CATALOG NUMBER: 5120SN-E5ICAT \_ H5ICAT-60WA19

### Luminous Intensity Polar Plot





TEST NUMBER: P27427

CATALOG NUMBER: 5120SN-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	38	38	38	38	37	37	37	37	36	36	36	34	34	34	33	33	33	32
1	36	35	34	33	35	34	33	32	33	32	31	31	31	30	30	30	29	29
2	33	31	29	28	32	30	29	27	29	28	27	28	27	26	27	26	26	25
3	31	28	25	24	30	27	25	23	26	25	23	25	24	23	25	23	22	22
4	28	25	22	21	28	24	22	20	24	22	20	23	21	20	22	21	20	19
5	26	22	20	18	25	22	20	18	21	19	18	21	19	17	20	19	17	17
6	24	20	18	16	24	20	18	16	19	17	16	19	17	15	18	17	15	15
7	22	18	16	14	22	18	16	14	18	15	14	17	15	14	17	15	14	13
8	21	17	14	12	20	17	14	12	16	14	12	16	14	12	15	14	12	12
9	19	15	13	11	19	15	13	11	15	13	11	15	13	11	14	12	11	10
10	18	14	12	10	18	14	12	10	14	12	10	13	11	10	13	11	10	9

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

	0°
0°	579
5°	587
10°	598
15°	629
20°	671
25°	724
30°	791
35°	855
40°	875
45°	727
50°	487
55°	361
60°	305
65°	233
70°	123
75°	52
80°	25
85°	6



TEST NUMBER: P27427

CATALOG NUMBER: 5120SN-E5ICAT \_ H5ICAT-60WA19

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	10.4	3.4	1.1
10°-20°	32.2	10.4	3.4
20°-30°	56.7	18.3	5.9
30°-40°	80.8	26.1	8.4
40°-50°	72.1	23.3	7.5
50°-60°	35.8	11.6	3.7
60°-70°	17.9	5.8	1.9
70°-80°	3.3	1.1	0.3
80°-90°	0.3	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°	99.2	32.1	10.3
0°-40°	180.1	58.2	18.8
0°-60°	288.0	93.1	30.0
0°-90°	309.4	100.0	32.2
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°	309.4	100.0	32.2

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	108	
5°	109	10
15°	113	32
25°	122	57
35°	130	81
45°	96	72
55°	38	36
65°	18	18
75°	2	3
85°	0	0
90°	0	



TEST NUMBER: P27427

CATALOG NUMBER: 5120SN-E5ICAT \_ H5ICAT-60WA19

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	107.5
2.5°	107.5
5°	108.6
7.5°	109.3
10°	109.5
12.5°	110.7
15°	112.9
17.5°	115.3
20°	117.2
22.5°	119.2
25°	122.0
27.5°	125.0
30°	127.3
32.5°	129.2
35°	130.2
37.5°	129.6
40°	124.5
42.5°	113.2
45°	95.5
47.5°	75.9
50°	58.2
52.5°	46.1
55°	38.5
57.5°	33.0
60°	28.3
62.5°	23.4
65°	18.3
67.5°	12.8
70°	7.8
72.5°	4.4
75°	2.5
77.5°	1.3
80°	0.8
82.5°	0.4
85°	0.1
87.5°	0.1
90°	0.0

(END OF REPORT)