

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: P27412

Luminaire Tested: **5120SN-E5ICAT _ H5ICAT-29WA19**

Test Date: 02/01/16

Test Information

Test Method: LM-41-14
Report Number: P27412
Test Lab: INNOVATION CENTER-P2
Test Date: 02/01/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: 5120SN-E5ICAT _ H5ICAT-29WA19
Description: H5 5" RECESSED INCANDESCENT WITH FULL CONE SATIN NICKEL REFLECTOR AND SATIN NICKEL SELF-FLANGE
Light Source: (1) PHILIPS ECOVANTAGE MEDIUM BASE INCANDESCENT 29A19/EV
Ballast/Driver: (1) CHROMA AC POWER SUPPLY IN0061

Summary

Lumens per Lamp: 380 (1 lamp)
Luminaire Lumens: 95.3 lumens
Efficiency: 25.1%
Efficacy: 3.3 lumens/watt
Spacing Criteria (0/90/45): 1.57 / 1.57 / 1.41
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

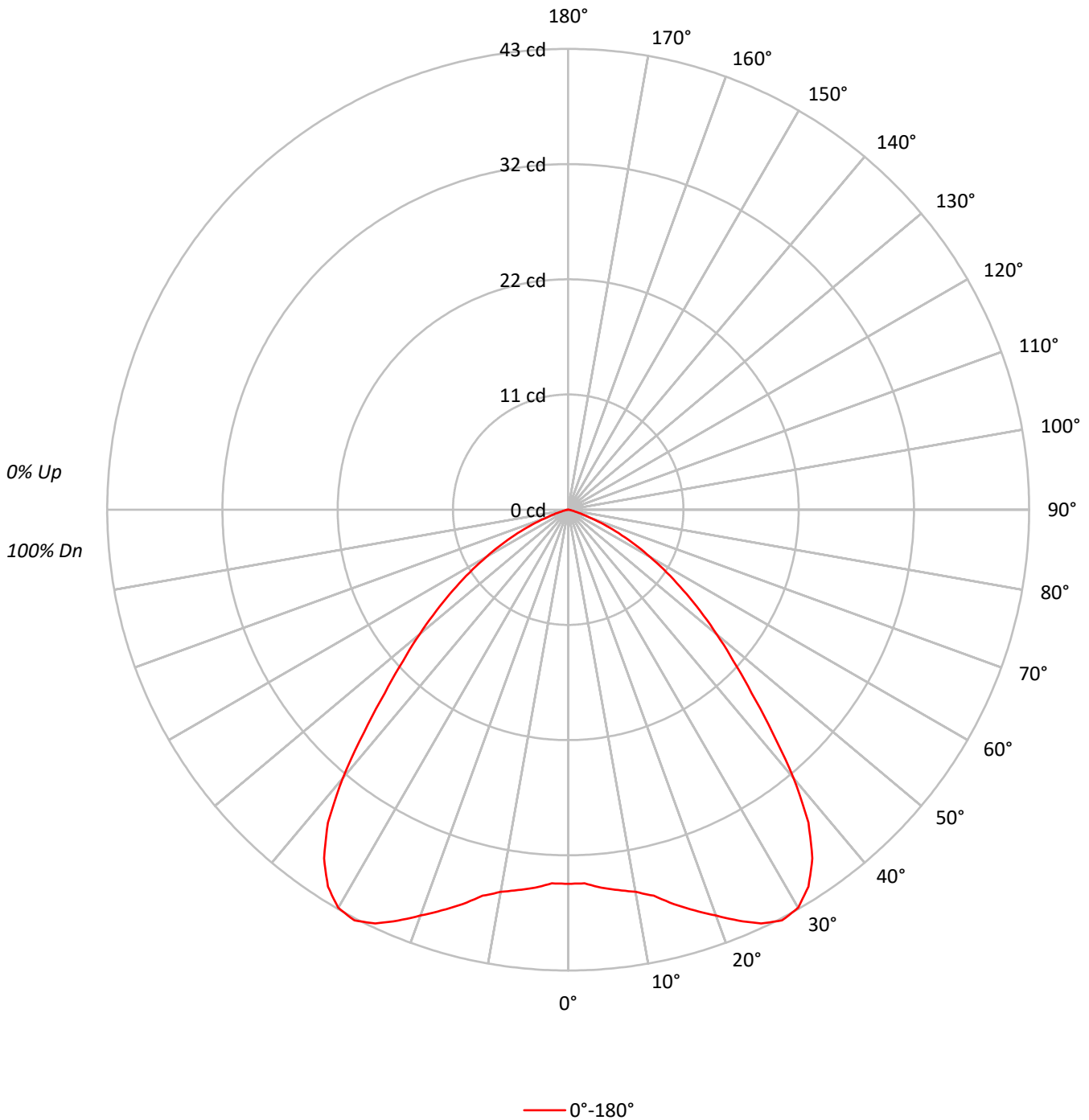
Input Watts (W): 28.6
Input Voltage (V): 120.57
Input Current (A_{in}): 0.23693
Voltage Rise (V): NR
Power Factor: 1
Total Harmonic Distortion (THDi): 0.96%
Frequency (hertz): 60
Stabilization Time: 0.25 HR
Operation Time: 0.5 HR
Ambient Temperature (°C): 24.7
Test Distance: 25 FT



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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	30	30	30	30	29	29	29	29	28	28	28		27	27	27		26	26	26	25
1	28	27	26	25	27	26	26	25	25	25	24		24	24	23		24	23	23	22
2	26	24	23	22	25	24	22	21	23	22	21		22	21	20		21	21	20	20
3	24	22	20	19	23	21	20	18	21	19	18		20	19	18		19	18	18	17
4	22	20	18	16	22	19	17	16	19	17	16		18	17	16		18	16	15	15
5	20	18	16	14	20	17	16	14	17	15	14		16	15	14		16	15	14	13
6	19	16	14	13	19	16	14	12	15	14	12		15	13	12		15	13	12	12
7	18	15	13	11	17	14	12	11	14	12	11		14	12	11		13	12	11	10
8	16	13	11	10	16	13	11	10	13	11	10		13	11	10		12	11	10	9
9	15	12	10	9	15	12	10	9	12	10	9		12	10	9		11	10	9	8
10	14	11	9	8	14	11	9	8	11	9	8		11	9	8		11	9	8	8

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2755
5°	2805
10°	2902
15°	3114
20°	3385
25°	3711
30°	3910
35°	3826
40°	3370
45°	2702
50°	2223
55°	1803
60°	1389
65°	971
70°	485
75°	214
80°	91
85°	91



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	3.4	3.6	0.9
10°-20°	10.9	11.4	2.9
20°-30°	19.6	20.6	5.2
30°-40°	24.4	25.6	6.4
40°-50°	19.0	19.9	5.0
50°-60°	11.8	12.4	3.1
60°-70°	5.2	5.5	1.4
70°-80°	0.9	1.0	0.2
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°	33.9	35.5	8.9
0°-40°	58.2	61.1	15.3
0°-60°	89.0	93.4	23.4
0°-90°	95.3	100.0	25.1
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°	95.3	100.0	25.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	35	
5°	35	3
15°	38	11
25°	43	20
35°	40	24
45°	24	19
55°	13	12
65°	5	5
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	34.9
2.5°	34.9
5°	35.4
7.5°	35.8
10°	36.2
12.5°	36.9
15°	38.1
17.5°	39.2
20°	40.3
22.5°	41.5
25°	42.6
27.5°	43.2
30°	42.9
32.5°	41.7
35°	39.7
37.5°	36.8
40°	32.7
42.5°	28.2
45°	24.2
47.5°	20.9
50°	18.1
52.5°	15.5
55°	13.1
57.5°	10.9
60°	8.8
62.5°	7.0
65°	5.2
67.5°	3.6
70°	2.1
72.5°	1.3
75°	0.7
77.5°	0.4
80°	0.2
82.5°	0.2
85°	0.1
87.5°	0.0
90°	0.0

(END OF REPORT)