

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: P27422

Luminaire Tested: **5121WH-E5ICAT _ H5ICAT-29WA19**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P27422
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: 5121WH-E5ICAT _ H5ICAT-29WA19
Description: H5 5" RECESSED INCANDESCENT WITH CONE WHITE REFLECTOR, WHITE
SELF-FLANGE
RING
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: 217.2 lumens
Efficiency: 57.2%
Efficacy: 7.6 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 1.44 / 1.49
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

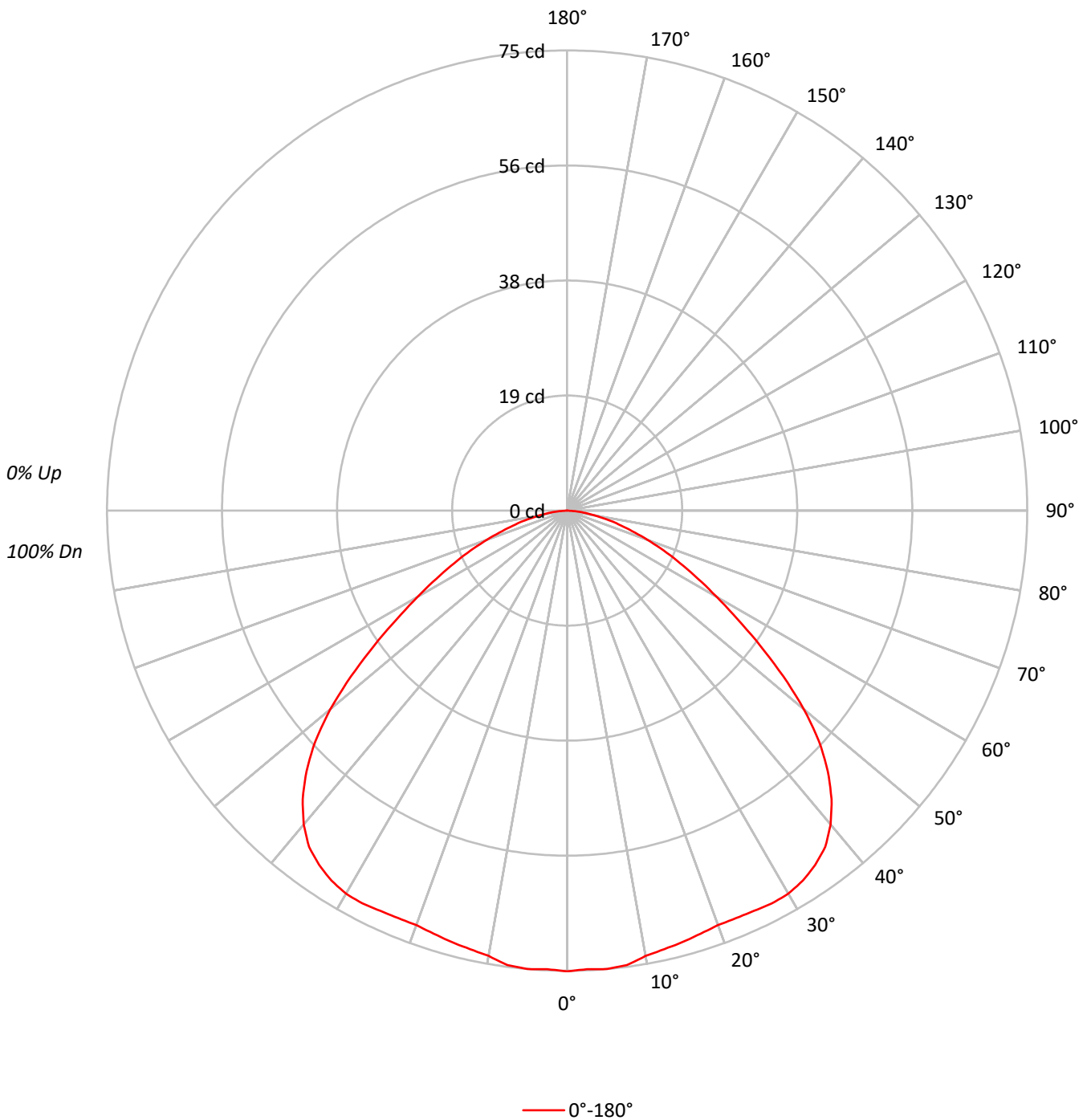
Input Watts (W): 28.5
Input Voltage (V): 120.49
Input Current (A_{in}): 0.23690
Voltage Rise (V): NR
Power Factor: 1
Total Harmonic Distortion (THDi): 0.97%
Frequency (hertz): 60
Stabilization Time: 0.25 HR
Operation Time: 0.5 HR
Ambient Temperature (°C): 24.8
Test Distance: 25 FT



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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	68	68	68	68	66	66	66	66	64	64	64	61	61	61	58	58	58	57
1	63	60	58	56	61	59	57	55	57	55	53	54	53	52	52	51	50	49
2	57	53	49	46	56	52	49	46	50	47	45	48	46	44	46	44	43	42
3	53	47	42	39	51	46	42	39	44	41	38	43	40	37	41	39	37	35
4	48	42	37	33	47	41	36	33	39	36	32	38	35	32	37	34	32	30
5	44	37	32	29	43	37	32	28	35	31	28	34	31	28	33	30	28	26
6	41	34	29	25	40	33	28	25	32	28	25	31	27	24	30	27	24	23
7	38	30	25	22	37	30	25	22	29	25	22	28	24	22	27	24	21	20
8	35	28	23	20	34	27	23	20	27	22	19	26	22	19	25	22	19	18
9	33	25	21	18	32	25	21	18	24	20	17	24	20	17	23	20	17	16
10	31	23	19	16	30	23	19	16	22	19	16	22	18	16	21	18	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5928
5°	5943
10°	5908
15°	5950
20°	6040
25°	6271
30°	6572
35°	6794
40°	6884
45°	6710
50°	6190
55°	5285
60°	4436
65°	3792
70°	3208
75°	2654
80°	2091
85°	1359



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	7.1	3.3	1.9
10°-20°	20.6	9.5	5.4
20°-30°	33.3	15.4	8.8
30°-40°	44.0	20.3	11.6
40°-50°	45.9	21.2	12.1
50°-60°	34.6	15.9	9.1
60°-70°	20.3	9.4	5.4
70°-80°	9.4	4.3	2.5
80°-90°	1.9	0.9	0.5
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°	61.1	28.1	16.1
0°-40°	105.1	48.4	27.6
0°-60°	185.6	85.4	48.8
0°-90°	217.2	100.0	57.2
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°	217.2	100.0	57.2

CANDELA DISTRIBUTION:

	0°	Flux
0°	75	
5°	75	7
15°	73	21
25°	72	33
35°	70	44
45°	60	46
55°	38	35
65°	20	20
75°	9	9
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	75.1
2.5°	74.8
5°	75.0
7.5°	74.7
10°	73.7
12.5°	73.2
15°	72.8
17.5°	72.3
20°	71.9
22.5°	71.9
25°	72.0
27.5°	72.2
30°	72.1
32.5°	71.5
35°	70.5
37.5°	69.1
40°	66.8
42.5°	63.8
45°	60.1
47.5°	55.7
50°	50.4
52.5°	44.4
55°	38.4
57.5°	32.9
60°	28.1
62.5°	24.0
65°	20.3
67.5°	17.0
70°	13.9
72.5°	11.1
75°	8.7
77.5°	6.6
80°	4.6
82.5°	3.0
85°	1.5
87.5°	0.2
90°	0.0

(END OF REPORT)