

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: P27411

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

Test Date: 02/01/16

Test Information

Test Method: LM-41-14
Report Number: P27411
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: 5120WH-E5ICAT _ H5ICAT-29WA19
Description: H5 5" RECESSED INCANDESCENT WITH FULL CONE WHITE REFLECTOR AND WHITE SELF-FLANGE RING
Light Source: (1) PHILIPS ECOVANTAGE MEDIUM BASE INCANDESCENT 29A19/EV
Ballast/Driver: (1) CHROMA AC POWER SUPPLY IN0061

Summary

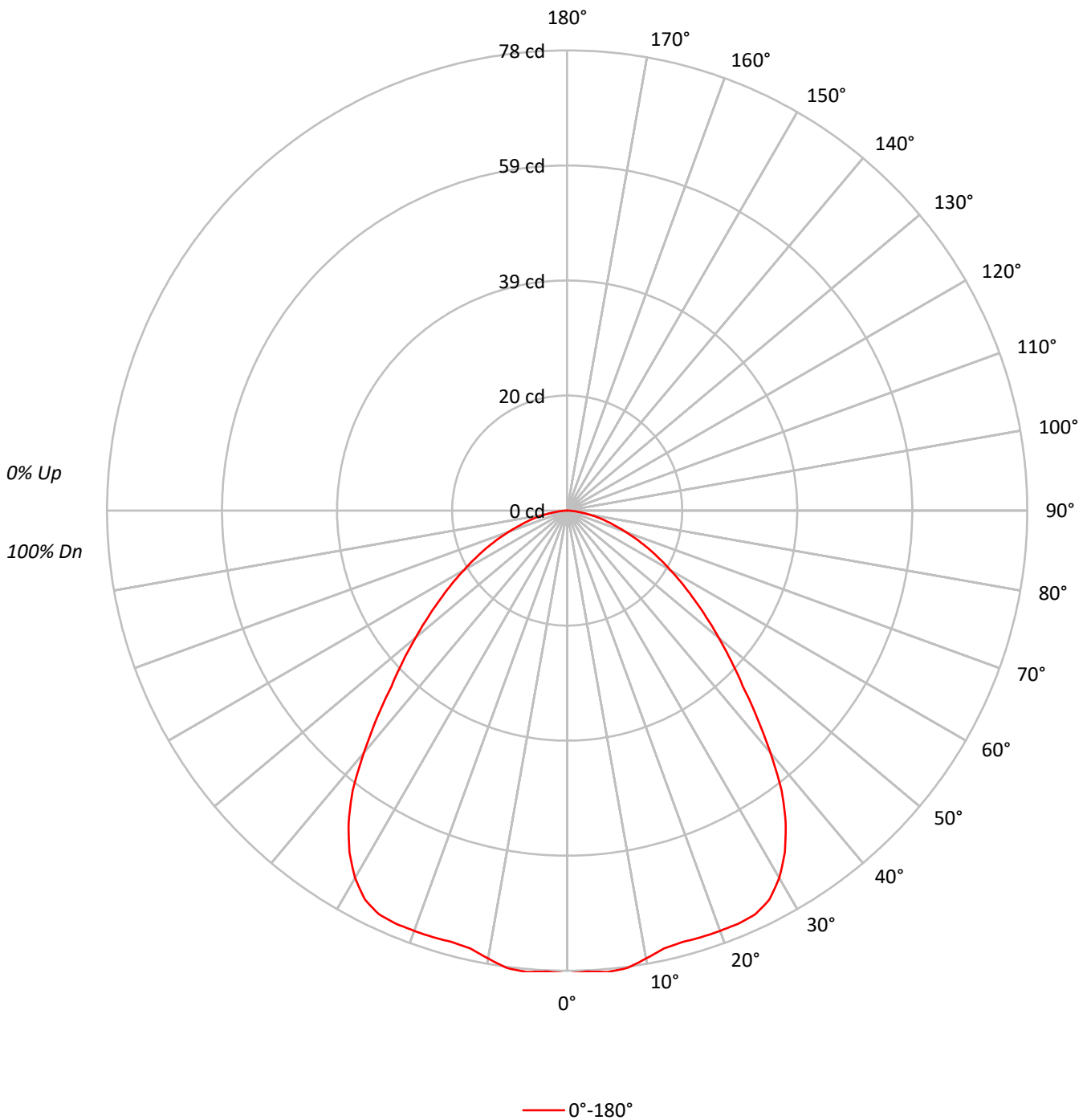
Lumens per Lamp: 380 (1 lamp)
Luminaire Lumens: 183.9 lumens
Efficiency: 48.4%
Efficacy: 6.5 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.28
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 28.5
Input Voltage (V): 120.42
Input Current (A_{in}): 0.23691
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): 24.7
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	58	58	58	58	56	56	56	56	54	54	54	51	51	51	49	49	49	48
1	53	51	50	48	52	50	49	47	48	47	46	46	45	44	45	44	43	42
2	49	46	43	40	48	45	42	40	43	41	39	41	40	38	40	39	37	36
3	45	41	37	34	44	40	37	34	39	36	33	37	35	33	36	34	32	31
4	42	36	33	30	41	36	32	29	35	32	29	34	31	29	33	30	28	27
5	39	33	29	26	38	32	29	26	31	28	26	30	28	25	30	27	25	24
6	36	30	26	23	35	29	26	23	29	25	23	28	25	22	27	24	22	21
7	33	27	23	20	33	27	23	20	26	23	20	25	22	20	25	22	20	19
8	31	25	21	18	30	25	21	18	24	21	18	23	20	18	23	20	18	17
9	29	23	19	17	28	23	19	17	22	19	17	22	19	16	21	18	16	16
10	27	21	18	15	27	21	18	15	21	17	15	20	17	15	20	17	15	14

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6197
5°	6221
10°	6180
15°	6187
20°	6368
25°	6576
30°	6554
35°	6225
40°	5523
45°	4700
50°	4114
55°	3620
60°	3189
65°	2821
70°	2423
75°	2074
80°	1682
85°	1087



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	7.4	4.1	2.0
10°-20°	21.5	11.7	5.7
20°-30°	34.6	18.8	9.1
30°-40°	39.9	21.7	10.5
40°-50°	32.9	17.9	8.7
50°-60°	23.7	12.9	6.2
60°-70°	15.0	8.2	4.0
70°-80°	7.3	4.0	1.9
80°-90°	1.5	0.8	0.4
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°	63.6	34.6	16.7
0°-40°	103.5	56.3	27.2
0°-60°	160.1	87.0	42.1
0°-90°	183.9	100.0	48.4
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°	183.9	100.0	48.4

CANDELA DISTRIBUTION:

	0°	Flux
0°	78	
5°	78	7
15°	76	22
25°	76	35
35°	65	40
45°	42	33
55°	26	24
65°	15	15
75°	7	7
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	78.5
2.5°	78.2
5°	78.5
7.5°	78.2
10°	77.1
12.5°	76.0
15°	75.7
17.5°	75.8
20°	75.8
22.5°	75.8
25°	75.5
27.5°	74.3
30°	71.9
32.5°	68.7
35°	64.6
37.5°	59.7
40°	53.6
42.5°	47.7
45°	42.1
47.5°	37.7
50°	33.5
52.5°	29.8
55°	26.3
57.5°	23.2
60°	20.2
62.5°	17.6
65°	15.1
67.5°	12.8
70°	10.5
72.5°	8.5
75°	6.8
77.5°	5.2
80°	3.7
82.5°	2.3
85°	1.2
87.5°	0.2
90°	0.0

(END OF REPORT)