

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: P27426

Luminaire Tested: **5120WH-E5ICAT _ H5ICAT-60WA19**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P27426
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: 5120WH-E5ICAT _ H5ICAT-60WA19
Description: H5 5" RECESSED INCANDESCENT WITH FULL CONE WHITE
REFLECTOR AND WHITE SELF-FLANGE RING
Light Source: (1) GE MEDIUM BASE INCANDESCENT
60A19/IF
Ballast/Driver: (1) CHROMA AC POWER SUPPLY
IN0061

Summary

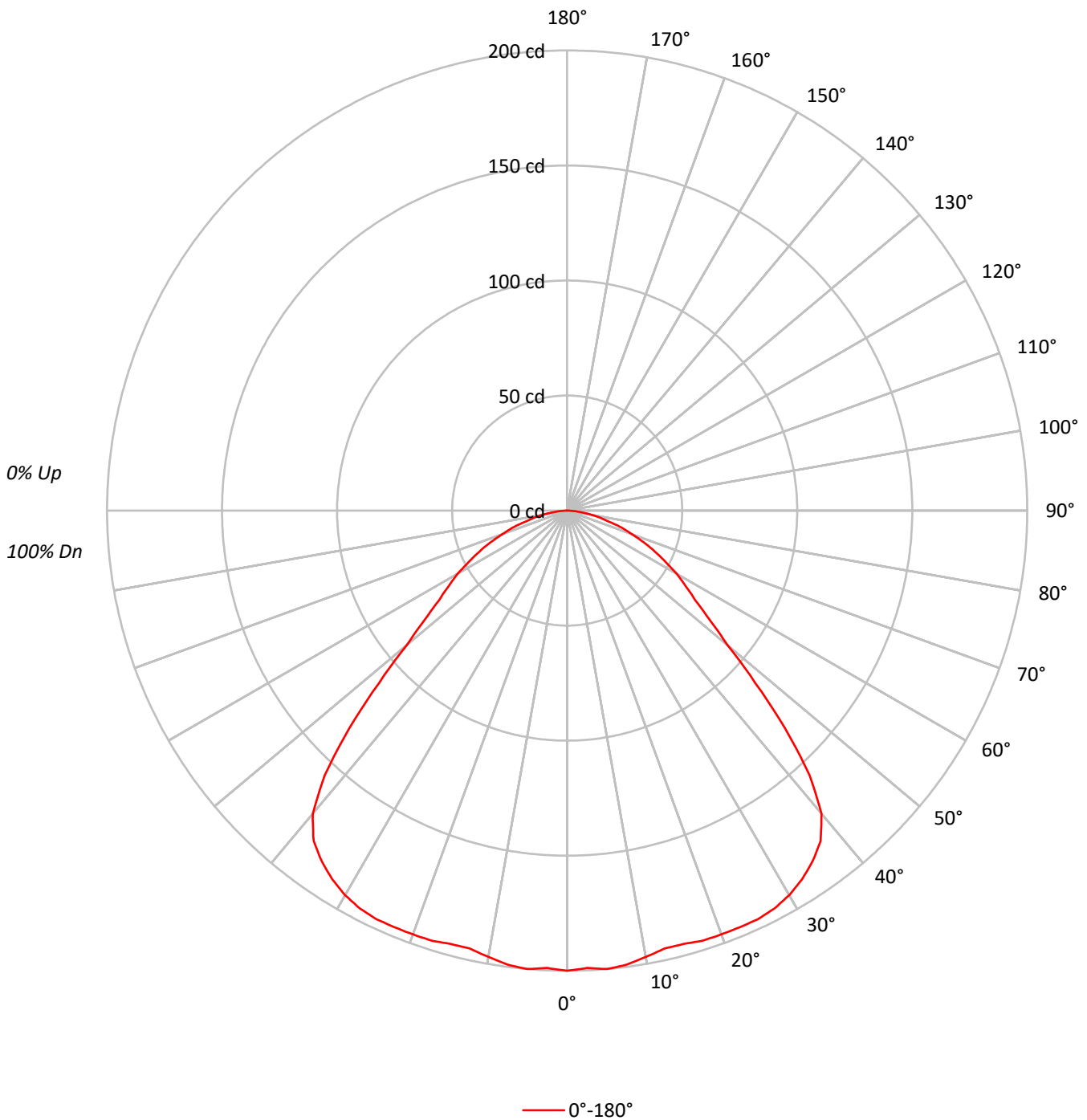
Lumens per Lamp: 960 (1 lamp)
Luminaire Lumens: 512.8 lumens
Efficiency: 53.4%
Efficacy: 8.6 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.42 / 1.39
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 59.9
Input Voltage (V): 120.34
Input Current (Ain): 0.49748
Voltage Rise (V): NR
Power Factor: 1
Total Harmonic Distortion (THDi): 0.61%
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	64	64	64	64	62	62	62	62	59	59	59		57	57	57		55	55	55	53
1	59	57	55	53	57	55	54	52	53	52	50		51	50	49		49	48	47	46
2	54	50	47	44	53	49	46	44	47	45	43		46	44	42		44	42	41	40
3	50	45	41	38	48	44	40	37	42	39	37		41	38	36		40	37	35	34
4	46	40	36	32	45	39	35	32	38	34	32		37	34	31		36	33	31	30
5	42	36	32	28	41	35	31	28	34	31	28		33	30	28		32	30	27	26
6	39	33	28	25	38	32	28	25	31	27	25		30	27	24		29	26	24	23
7	36	30	25	22	36	29	25	22	28	25	22		28	24	22		27	24	22	21
8	34	27	23	20	33	27	23	20	26	22	20		25	22	20		25	22	19	18
9	32	25	21	18	31	25	21	18	24	20	18		23	20	18		23	20	18	17
10	30	23	19	16	29	23	19	16	22	19	16		22	18	16		21	18	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	15788
5°	15848
10°	15791
15°	15937
20°	16465
25°	17072
30°	17593
35°	17925
40°	17725
45°	14960
50°	11176
55°	9359
60°	8684
65°	7845
70°	6924
75°	5795
80°	5001
85°	3623



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	19.0	3.7	2.0
10°-20°	55.5	10.8	5.8
20°-30°	90.4	17.6	9.4
30°-40°	115.9	22.6	12.1
40°-50°	102.2	19.9	10.6
50°-60°	62.5	12.2	6.5
60°-70°	41.7	8.1	4.3
70°-80°	21.0	4.1	2.2
80°-90°	4.8	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°	164.8	32.1	17.2
0°-40°	280.7	54.7	29.2
0°-60°	445.4	86.9	46.4
0°-90°	512.8	100.0	53.4
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°	512.8	100.0	53.4

CANDELA DISTRIBUTION:

	0°	Flux
0°	200	
5°	200	19
15°	195	55
25°	196	90
35°	186	116
45°	134	102
55°	68	62
65°	42	42
75°	19	21
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	200
2.5°	199
5°	200
7.5°	199
10°	197
12.5°	195
15°	195
17.5°	196
20°	196
22.5°	196
25°	196
27.5°	195
30°	193
32.5°	190
35°	186
37.5°	181
40°	172
42.5°	156
45°	134
47.5°	111
50°	91
52.5°	78
55°	68
57.5°	61
60°	55
62.5°	48
65°	42
67.5°	36
70°	30
72.5°	25
75°	19
77.5°	15
80°	11
82.5°	7
85°	4
87.5°	1
90°	0

(END OF REPORT)