

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: P27425

Luminaire Tested: **5162WH-E5ICAT _ H5ICAT-43WA19**

Test Date: 02/04/16

Test Information

Test Method: LM-41-14
Report Number: P27425
Test Lab: INNOVATION CENTER-P2
Test Date: 02/04/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: 5162WH-E5ICAT _ H5ICAT-43WA19
Description: H5 5" RECESSED INCANDESCENT WITH DROP PLASTIC LENS AND REFLECTOR, WHITE PLASTIC TRIM, SHOWERLIGHT
Light Source: (1) GE MEDIUM BASE INCANDESCENT 43A/HAL/SSW/4
Ballast/Driver: (1) CHROMA AC POWER SUPPLY IN0061

Summary

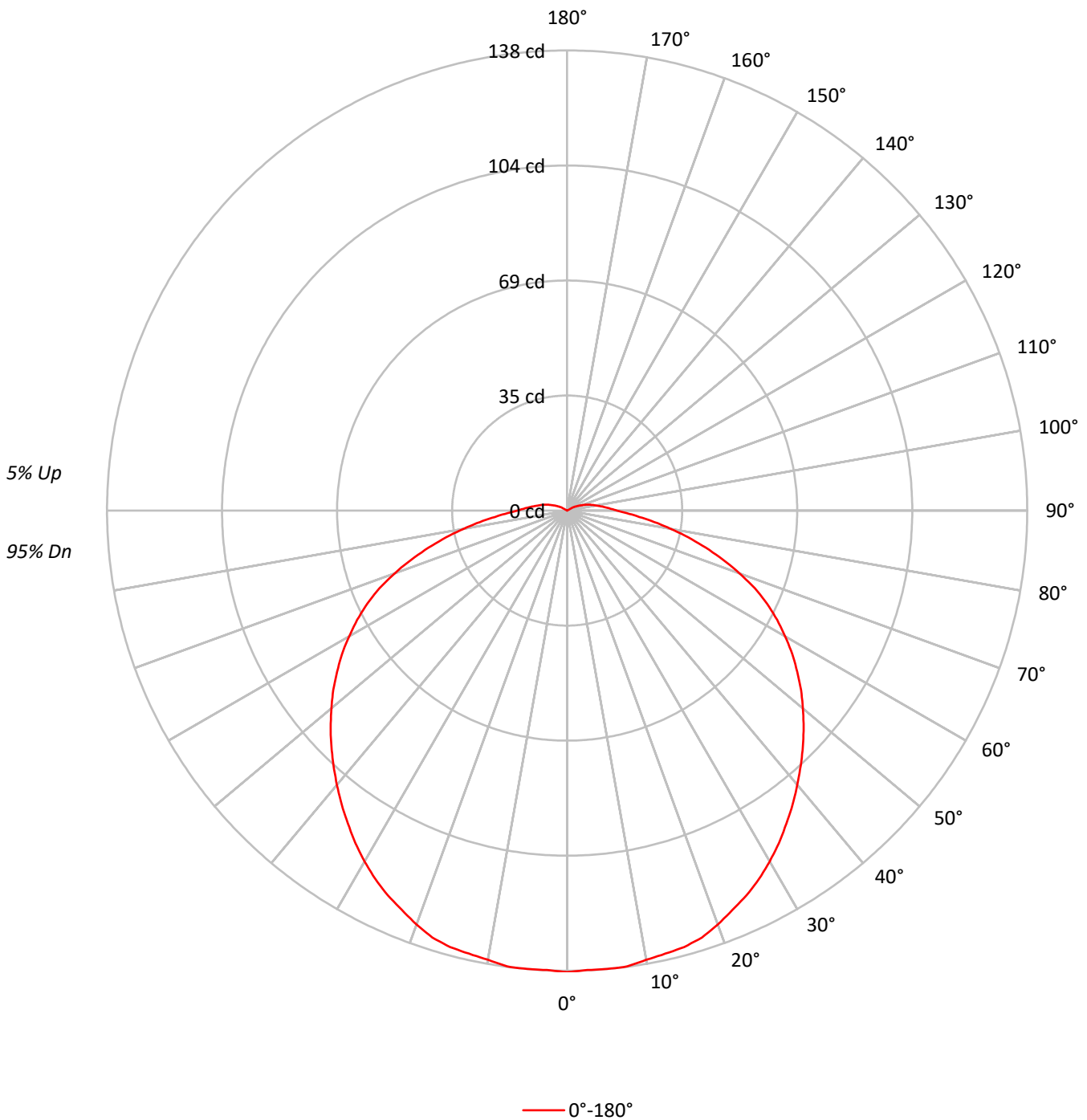
Lumens per Lamp: 785 (1 lamp)
Luminaire Lumens: 492.6 lumens
Efficiency: 62.8%
Efficacy: 11.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.43
Luminous Opening: Vertical Cylinder (Dia: 0.42' x H: 0.08')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): 120.20
Input Current (A_{in}): 0.35969
Voltage Rise (V): NR
Power Factor: 1
Total Harmonic Distortion (THDi): 0.80%
Frequency (hertz): 60
Stabilization Time: 0.25 HR
Operation Time: 0.5 HR
Ambient Temperature (°C): 25.2
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	74	74	74	74	72	72	72	72	68	68	68		65	65	65		61	61	61	60
1	66	63	60	57	64	61	58	56	58	56	53		55	53	51		52	51	49	48
2	60	54	49	45	58	53	48	45	50	46	43		47	44	42		45	42	40	39
3	54	47	42	37	52	46	41	37	43	39	36		41	38	34		39	36	34	32
4	49	41	36	31	48	40	35	31	38	34	30		37	32	29		35	31	28	27
5	45	37	31	26	44	36	30	26	34	29	26		33	28	25		31	27	24	23
6	42	33	27	23	40	32	27	23	31	26	22		29	25	22		28	24	21	20
7	39	30	24	20	37	29	24	20	28	23	20		27	22	19		26	22	19	18
8	36	27	22	18	35	27	21	18	25	21	17		24	20	17		24	20	17	16
9	34	25	20	16	32	24	19	16	23	19	16		23	18	15		22	18	15	14
10	31	23	18	14	30	22	18	14	22	17	14		21	17	14		20	16	14	13

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10925
5°	10697
10°	10494
15°	10366
20°	10156
25°	9911
30°	9656
35°	9373
40°	9119
45°	8898
50°	8696
55°	8498
60°	8272
65°	7998
70°	7469
75°	6725
80°	5859
85°	5026



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	13.1	2.7	1.7
10°-20°	38.2	7.8	4.9
20°-30°	58.7	11.9	7.5
30°-40°	71.8	14.6	9.1
40°-50°	77.2	15.7	9.8
50°-60°	75.4	15.3	9.6
60°-70°	65.2	13.2	8.3
70°-80°	45.5	9.2	5.8
80°-90°	24.3	4.9	3.1
90°-100°	12.6	2.6	1.6
100°-110°	7.2	1.5	0.9
110°-120°	3.1	0.6	0.4
120°-130°	0.2	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°	110.1	22.3	14.0
0°-40°	181.9	36.9	23.2
0°-60°	334.5	67.9	42.6
0°-90°	469.5	95.3	59.8
90°-120°	22.9	4.6	2.9
90°-150°	23.1	4.7	2.9
90°-180°	23.0	4.7	2.9
0°-180°	492.6	100.0	62.8

CANDELA DISTRIBUTION:

	0°	Flux
0°	138	
5°	138	13
15°	136	38
25°	127	59
35°	115	72
45°	100	77
55°	84	75
65°	66	65
75°	43	46
85°	22	20
90°	15	8
95°	11	9
105°	7	7
115°	3	3
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



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CANDELA DISTRIBUTION (FULL):

0°	
0°	138.4
2.5°	137.9
5°	138.0
7.5°	137.9
10°	136.8
12.5°	136.1
15°	135.5
17.5°	134.3
20°	132.1
22.5°	129.6
25°	127.3
27.5°	124.6
30°	121.5
32.5°	118.2
35°	114.6
37.5°	111.1
40°	107.4
42.5°	103.7
45°	100.0
47.5°	96.2
50°	92.3
52.5°	88.4
55°	84.2
57.5°	80.1
60°	75.5
62.5°	71.0
65°	66.2
67.5°	60.9
70°	55.0
72.5°	49.1
75°	43.0
77.5°	37.2
80°	31.5
82.5°	26.4
85°	21.7
87.5°	17.9
90°	14.9
92.5°	13.0
95°	11.4
97.5°	10.0
100°	8.8
102.5°	7.8
105°	6.8
107.5°	5.8
110°	4.7



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	3.9
115°	3.0
117.5°	2.3
120°	1.6
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)