

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: P27459

Luminaire Tested: **6160WH-E7ICAT _ H7ICAT-60WA19**

Test Date: 02/04/16



Test Information

Test Method: LM-41-14
Report Number: P27459
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: 6160WH-E7ICAT _ H7ICAT-60WA19
Description: H7 6" RECESSED INCANDESCENT WITH DROP PLASTIC LENS AND WHITE PLASTIC TRIM, SHOWERLIGHT
Light Source: (1) GE MEDIUM BASE INCANDESCENT 60A19/IF
Ballast/Driver: (1) CHROMA AC POWER SUPPLY IN0061

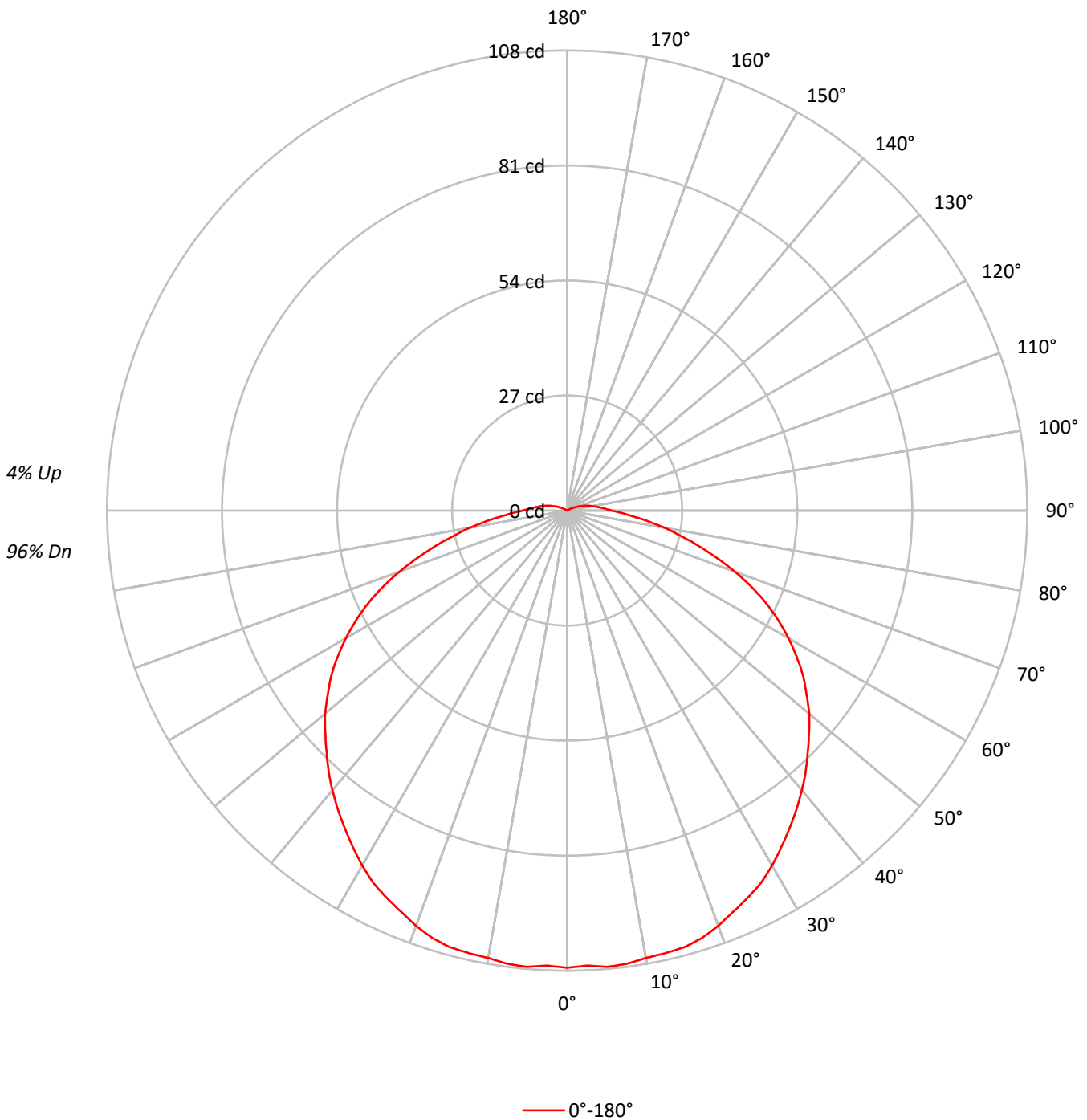
Summary

Lumens per Lamp: 960 (1 lamp)
Luminaire Lumens: 382.7 lumens
Efficiency: 39.9%
Efficacy: 6.4 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.45
Luminous Opening: Vertical Cylinder (Dia: 0.5' x H: 0.08')
CIE Type: Direct

Input Watts (W): 59.7
Input Voltage (V): 120.05
Input Current (A_{in}): 0.49744
Voltage Rise (V): NR
Power Factor: 1
Total Harmonic Distortion (THDi): 0.64%
Frequency (hertz): 60
Stabilization Time: 0.25 HR
Operation Time: 0.5 HR
Ambient Temperature (°C): 25.1
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	47	47	47	47	46	46	46	46	43	43	43	41	41	41	39	39	39	38
1	42	40	38	36	41	39	37	36	37	36	34	35	34	33	34	33	32	31
2	38	35	32	29	37	34	31	29	32	30	28	30	28	27	29	27	26	25
3	35	30	27	24	33	29	26	23	28	25	23	27	24	22	25	23	22	21
4	32	26	23	20	30	26	22	20	25	22	19	23	21	19	22	20	18	17
5	29	24	20	17	28	23	19	17	22	19	16	21	18	16	20	18	16	15
6	27	21	17	15	26	21	17	15	20	17	14	19	16	14	18	16	14	13
7	25	19	15	13	24	19	15	13	18	15	13	17	14	12	16	14	12	11
8	23	17	14	11	22	17	14	11	16	13	11	16	13	11	15	13	11	10
9	21	16	13	10	21	16	12	10	15	12	10	14	12	10	14	12	10	9
10	20	15	11	9	19	14	11	9	14	11	9	13	11	9	13	11	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5882
5°	5808
10°	5720
15°	5698
20°	5616
25°	5521
30°	5425
35°	5302
40°	5206
45°	5110
50°	5051
55°	4958
60°	4810
65°	4600
70°	4242
75°	3771
80°	3310
85°	2828



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	10.2	2.7	1.1
10°-20°	29.9	7.8	3.1
20°-30°	46.3	12.1	4.8
30°-40°	57.0	14.9	5.9
40°-50°	61.8	16.1	6.4
50°-60°	60.3	15.8	6.3
60°-70°	50.8	13.3	5.3
70°-80°	33.9	8.8	3.5
80°-90°	17.4	4.6	1.8
90°-100°	8.7	2.3	0.9
100°-110°	4.7	1.2	0.5
110°-120°	1.6	0.4	0.2
120°-130°	0.1	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°	86.4	22.6	9.0
0°-40°	143.4	37.5	14.9
0°-60°	265.5	69.4	27.7
0°-90°	367.7	96.1	38.3
90°-120°	15.0	3.9	1.6
90°-150°	15.0	3.9	1.6
90°-180°	15.0	3.9	1.6
0°-180°	382.7	100.0	39.9

CANDELA DISTRIBUTION:

	0°	Flux
0°	107	
5°	108	10
15°	106	30
25°	100	46
35°	91	57
45°	80	62
55°	68	60
65°	52	51
75°	32	34
85°	15	14
90°	10	6
95°	8	6
105°	4	5
115°	2	2
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°	107.3
2.5°	106.9
5°	107.5
7.5°	107.3
10°	106.6
12.5°	106.4
15°	106.1
17.5°	105.2
20°	103.7
22.5°	101.9
25°	100.3
27.5°	98.5
30°	96.2
32.5°	93.6
35°	91.0
37.5°	88.4
40°	85.7
42.5°	82.9
45°	79.9
47.5°	77.0
50°	74.2
52.5°	70.8
55°	67.6
57.5°	63.9
60°	60.0
62.5°	55.9
65°	51.6
67.5°	46.9
70°	41.9
72.5°	36.7
75°	31.9
77.5°	27.2
80°	23.1
82.5°	19.1
85°	15.4
87.5°	12.7
90°	10.4
92.5°	9.0
95°	7.9
97.5°	6.9
100°	6.0
102.5°	5.2
105°	4.4
107.5°	3.5
110°	2.9



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	2.1
115°	1.5
117.5°	1.0
120°	0.5
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)