

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: H35156

Luminaire Tested: **H7ICT-404C**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: H35156  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H7ICT-404C  
Description: HALO 7" RECESSED DOWNLIGHT  
SPECULAR REFLECTOR - FIXED SOCKET POSITION  
Light Source: 60A19 60 WATTS 860 LUMENS  
A19 INSIDE FROSTED  
Ballast/Driver: -

**Summary**

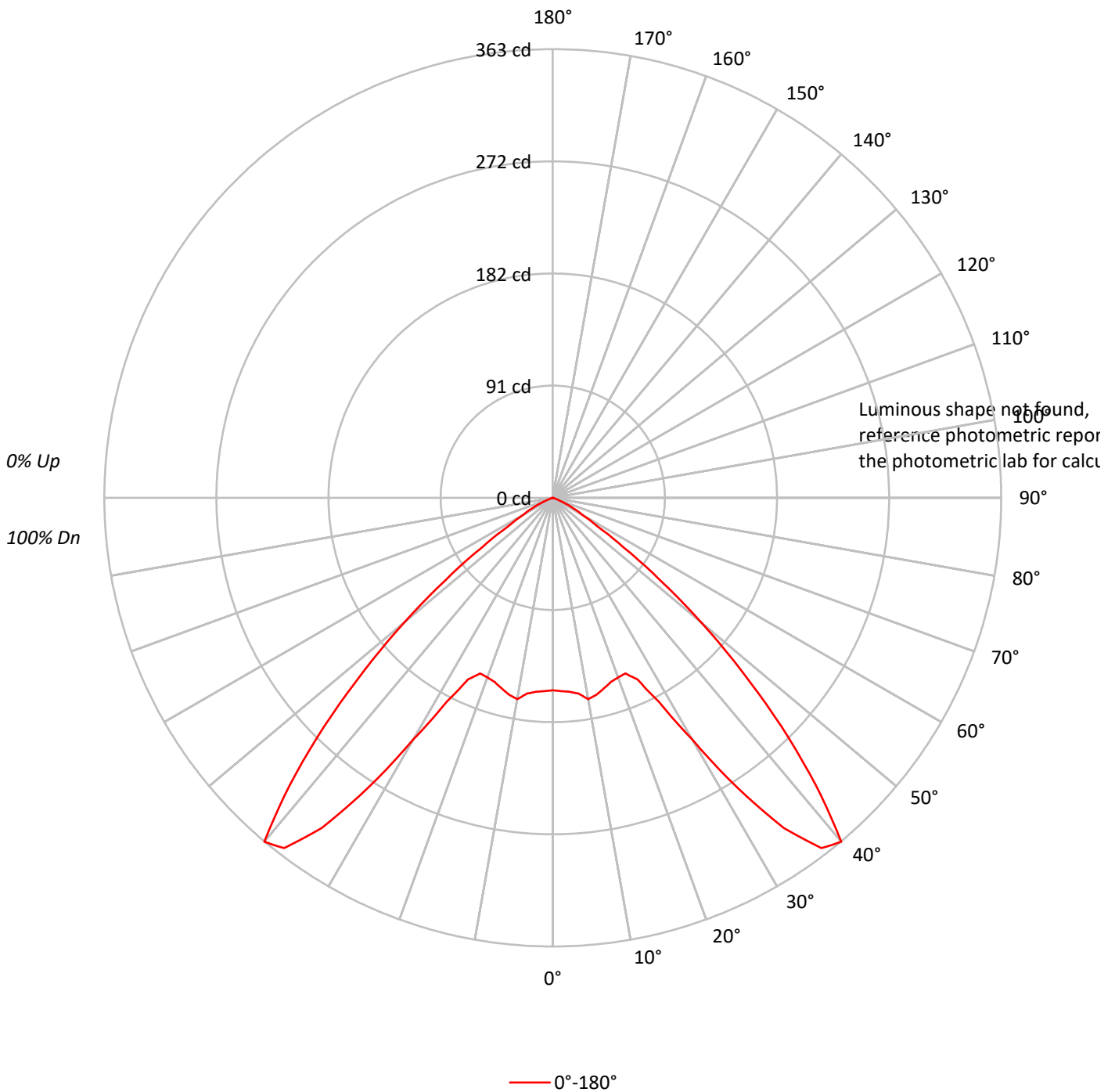
Lumens per Lamp: 860 (1 lamp)  
Luminaire Lumens: 624.4 lumens  
Efficiency: 72.6%  
Efficacy: 10.4 lumens/watt  
Spacing Criteria (0/90/45): 2.09 / 2.09 / 1.71  
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 60  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



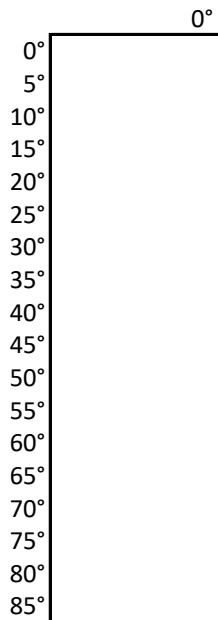


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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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	86	86	86	86	84	84	84	84	81	81	81		77	77	77		74	74	74	73
1	81	78	76	74	79	77	74	72	74	72	70		71	69	68		68	67	66	65
2	75	70	66	63	73	69	65	62	66	63	60		64	61	59		62	60	58	56
3	69	62	57	53	67	61	57	53	59	55	52		57	54	51		56	53	50	49
4	63	56	50	46	62	55	50	46	53	49	45		52	48	44		50	47	44	42
5	58	50	44	40	57	49	44	40	48	43	39		46	42	39		45	41	38	37
6	54	45	39	35	53	44	39	34	43	38	34		42	37	34		41	37	34	32
7	50	40	34	30	48	40	34	30	39	34	30		38	33	30		37	33	29	28
8	46	37	31	27	45	36	30	26	35	30	26		34	30	26		33	29	26	25
9	43	33	27	24	42	33	27	23	32	27	23		31	27	23		30	26	23	22
10	40	30	25	21	39	30	25	21	29	24	21		29	24	21		28	24	21	19

**AVERAGE LUMINANCE (cd/sqm):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	15.3	2.4	1.8
10°-20°	45.1	7.2	5.2
20°-30°	81.0	13.0	9.4
30°-40°	199.1	31.9	23.1
40°-50°	199.9	32.0	23.2
50°-60°	69.6	11.1	8.1
60°-70°	13.5	2.2	1.6
70°-80°	0.9	0.1	0.1
80°-90°	0.1	0.0	0.0
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°	141.4	22.6	16.4
0°-40°	340.5	54.5	39.6
0°-60°	610.0	97.7	70.9
0°-90°	624.4	100.0	72.6
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°	624.4	100.0	72.6

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	156	
5°	158	15
15°	160	45
25°	162	81
35°	326	199
45°	262	200
55°	70	70
65°	13	13
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
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°	155.6
2.5°	156.6
5°	157.5
7.5°	159.7
10°	165.4
12.5°	163.2
15°	159.6
17.5°	156.3
20°	154.6
22.5°	153.8
25°	161.9
27.5°	186.0
30°	225.9
32.5°	278.4
35°	326.1
37.5°	357.2
40°	363.3
42.5°	315.2
45°	261.8
47.5°	207.1
50°	156.7
52.5°	109.8
55°	70.0
57.5°	42.9
60°	28.6
62.5°	20.6
65°	12.6
67.5°	6.2
70°	2.4
72.5°	0.9
75°	0.7
77.5°	0.5
80°	0.3
82.5°	0.2
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
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)