

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: 267p116

Luminaire Tested: **H271ICAT-18DTT-370W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 267p116
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H271ICAT-18DTT-370W
Description: HALO 6" RECESSED ROUND DOWNLIGHT, 18CF WITH REGRESSED
ALABALITE LENS WITH WHITE BAFFLE
Light Source: ONE - CF18DD/E/835 - 1250 LUMENS - 18 WATTS
Ballast/Driver: CBT213L-120B

Summary

Lumens per Lamp: 1250 (1 lamp)
Luminaire Lumens: 349.6 lumens
Efficiency: 28.0%
Efficacy: 19.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.27
Luminous Opening: Circular (Dia: 0.44' x H: 0')
CIE Type: Direct

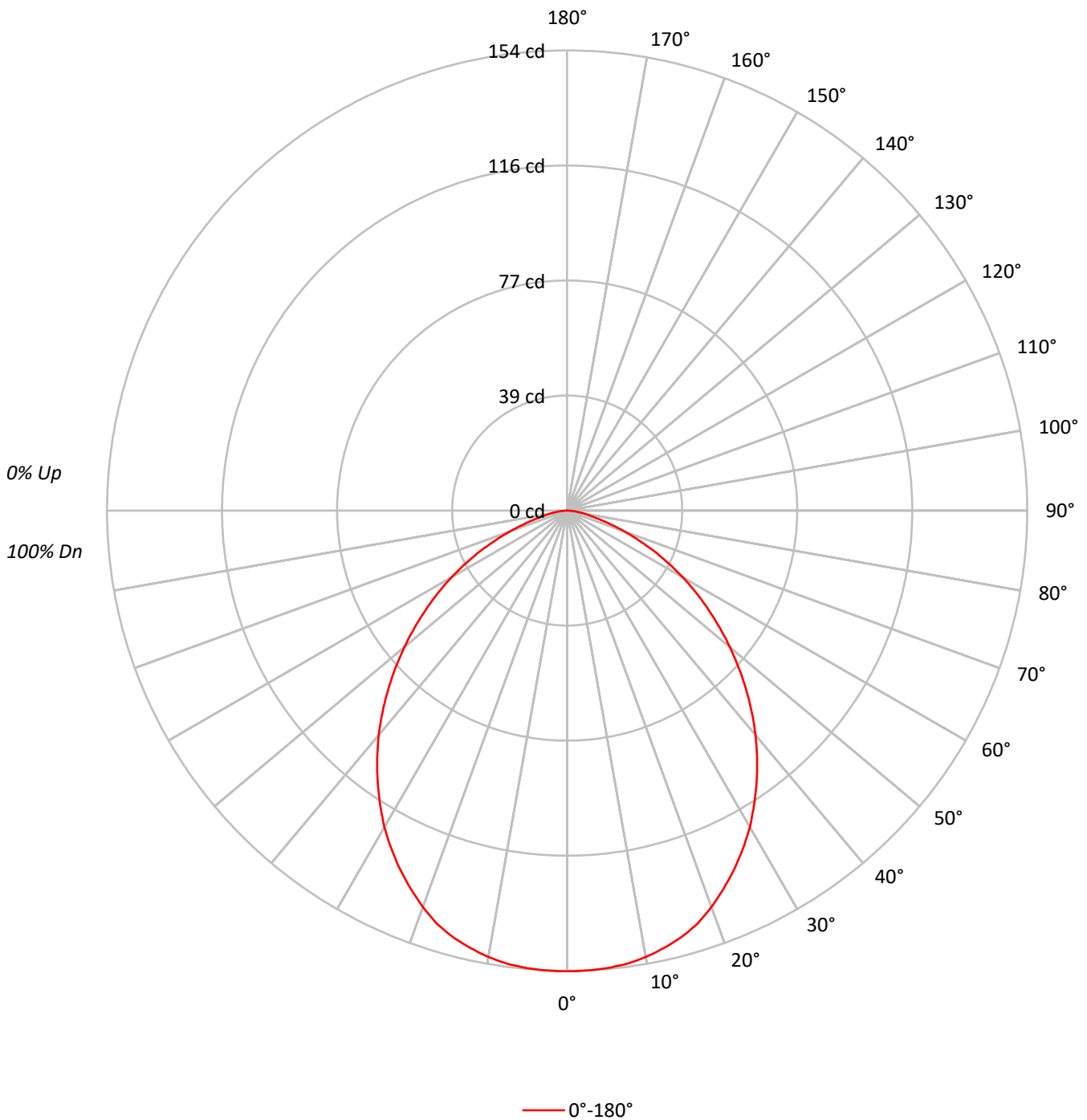
Input Watts (W): 18
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	33	33	33	33	33	33	33	33	31	31	31	30	30	30	29	29	29	28
1	31	30	29	28	30	29	28	27	28	27	26	27	26	26	26	25	25	24
2	28	26	25	23	28	26	24	23	25	23	22	24	23	22	23	22	21	21
3	26	23	21	20	25	23	21	19	22	20	19	21	20	19	21	19	18	18
4	24	21	19	17	23	21	18	17	20	18	17	19	18	16	19	17	16	16
5	22	19	16	15	22	19	16	15	18	16	15	17	16	14	17	15	14	14
6	21	17	15	13	20	17	15	13	16	14	13	16	14	13	15	14	13	12
7	19	16	13	12	19	15	13	12	15	13	11	14	13	11	14	13	11	11
8	18	14	12	10	17	14	12	10	14	12	10	13	12	10	13	11	10	10
9	17	13	11	9	16	13	11	9	13	11	9	12	11	9	12	10	9	9
10	16	12	10	9	15	12	10	9	12	10	9	11	10	9	11	10	8	8

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11041
5°	11047
10°	11030
15°	10956
20°	10759
25°	10460
30°	10112
35°	9668
40°	9169
45°	8577
50°	7920
55°	7203
60°	6401
65°	5422
70°	4229
75°	2988
80°	2309
85°	1725



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	14.6	4.2	1.2
10°-20°	41.6	11.9	3.3
20°-30°	60.9	17.4	4.9
30°-40°	69.1	19.8	5.5
40°-50°	65.3	18.7	5.2
50°-60°	51.6	14.8	4.1
60°-70°	31.7	9.1	2.5
70°-80°	12.2	3.5	1.0
80°-90°	2.6	0.7	0.2
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°	117.1	33.5	9.4
0°-40°	186.2	53.3	14.9
0°-60°	303.1	86.7	24.2
0°-90°	349.6	100.0	28.0
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°	349.6	100.0	28.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	154	
5°	154	15
15°	148	42
25°	132	61
35°	111	69
45°	85	65
55°	58	52
65°	32	32
75°	11	12
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	154.2
2.5°	154.1
5°	153.7
7.5°	153.0
10°	151.7
12.5°	149.9
15°	147.8
17.5°	145.0
20°	141.2
22.5°	136.9
25°	132.4
27.5°	127.5
30°	122.3
32.5°	116.5
35°	110.6
37.5°	104.4
40°	98.1
42.5°	91.5
45°	84.7
47.5°	77.9
50°	71.1
52.5°	64.3
55°	57.7
57.5°	51.1
60°	44.7
62.5°	38.3
65°	32.0
67.5°	25.8
70°	20.2
72.5°	15.1
75°	10.8
77.5°	7.6
80°	5.6
82.5°	3.8
85°	2.1
87.5°	0.7
90°	0.0

(END OF REPORT)