

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: 267p129

Luminaire Tested: **H270ICAT-13DTT-370W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 267p129
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H270ICAT-13DTT-370W
Description: HALO 6" RECESSED ROUND DOWNLIGHT, 13CF REGRESSED ALBALITE LENS, WHITE BAFFLE
Light Source: ONE - PL-C13W/4P - 900 LUMENS - 13 WATTS
Ballast/Driver: CBT113L-120B

Summary

Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 248.5 lumens
Efficiency: 27.6%
Efficacy: 19.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.25
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

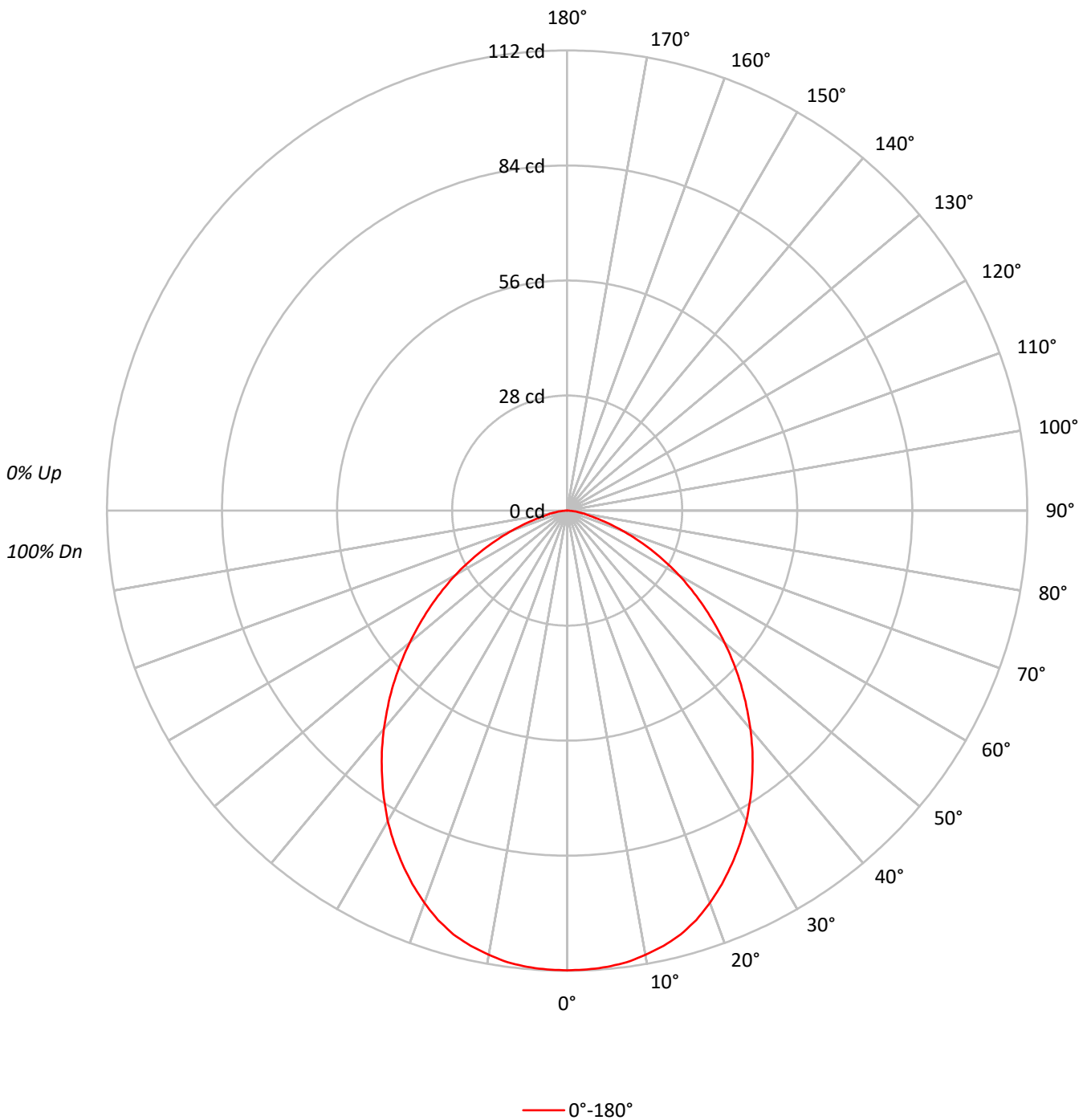
Input Watts (W): 13
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	32	32	32	32	31	31	31	29	29	29	28	28	28	28
1	30	29	28	27	30	29	28	27	28	27	26	26	26	25	25	25	25	24
2	28	26	24	23	27	25	24	23	24	23	22	24	23	22	23	22	21	21
3	26	23	21	19	25	23	21	19	22	20	19	21	20	19	20	19	18	18
4	24	21	18	17	23	20	18	17	20	18	16	19	17	16	18	17	16	15
5	22	19	16	15	21	18	16	15	18	16	14	17	16	14	17	15	14	14
6	20	17	15	13	20	17	14	13	16	14	13	16	14	13	15	14	13	12
7	19	15	13	12	18	15	13	11	15	13	11	14	13	11	14	12	11	11
8	18	14	12	10	17	14	12	10	14	12	10	13	11	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	8	11	10	8	8

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7300
5°	7302
10°	7274
15°	7213
20°	7054
25°	6831
30°	6577
35°	6260
40°	5910
45°	5517
50°	5075
55°	4607
60°	4097
65°	3473
70°	2728
75°	1916
80°	1503
85°	1123



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	10.6	4.3	1.2
10°-20°	30.0	12.1	3.3
20°-30°	43.7	17.6	4.9
30°-40°	49.1	19.8	5.5
40°-50°	46.1	18.5	5.1
50°-60°	36.2	14.6	4.0
60°-70°	22.3	9.0	2.5
70°-80°	8.6	3.5	1.0
80°-90°	1.8	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°	84.3	33.9	9.4
0°-40°	133.4	53.7	14.8
0°-60°	215.7	86.8	24.0
0°-90°	248.5	100.0	27.6
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°	248.5	100.0	27.6

CANDELA DISTRIBUTION:

	0°	Flux
0°	112	
5°	112	11
15°	107	30
25°	95	44
35°	79	49
45°	60	46
55°	40	36
65°	22	22
75°	8	9
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	111.9
2.5°	111.8
5°	111.5
7.5°	110.9
10°	109.8
12.5°	108.5
15°	106.8
17.5°	104.5
20°	101.6
22.5°	98.4
25°	94.9
27.5°	91.2
30°	87.3
32.5°	83.0
35°	78.6
37.5°	74.1
40°	69.4
42.5°	64.6
45°	59.8
47.5°	54.9
50°	50.0
52.5°	45.2
55°	40.5
57.5°	35.9
60°	31.4
62.5°	26.9
65°	22.5
67.5°	18.2
70°	14.3
72.5°	10.7
75°	7.6
77.5°	5.3
80°	4.0
82.5°	2.7
85°	1.5
87.5°	0.5
90°	0.0

(END OF REPORT)