

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: 267p113

Luminaire Tested: **H271ICAT-18TTT-470SC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 267p113
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H271ICAT-18TTT-470SC
Description: HALO 6" RECESSED ROUND DOWNLIGHT, 18CF WITH SPECULAR CONE REFLECTOR
Light Source: ONE - F18TBX/SPX27 - 1200 LUMENS - 18 WATTS
Ballast/Driver: CBT213L-120B

Summary

Lumens per Lamp: 1200 (1 lamp)
Luminaire Lumens: 762.7 lumens
Efficiency: 63.6%
Efficacy: 40.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.28
Luminous Opening: Circular (Dia: 0.44' x H: 0')
CIE Type: Direct

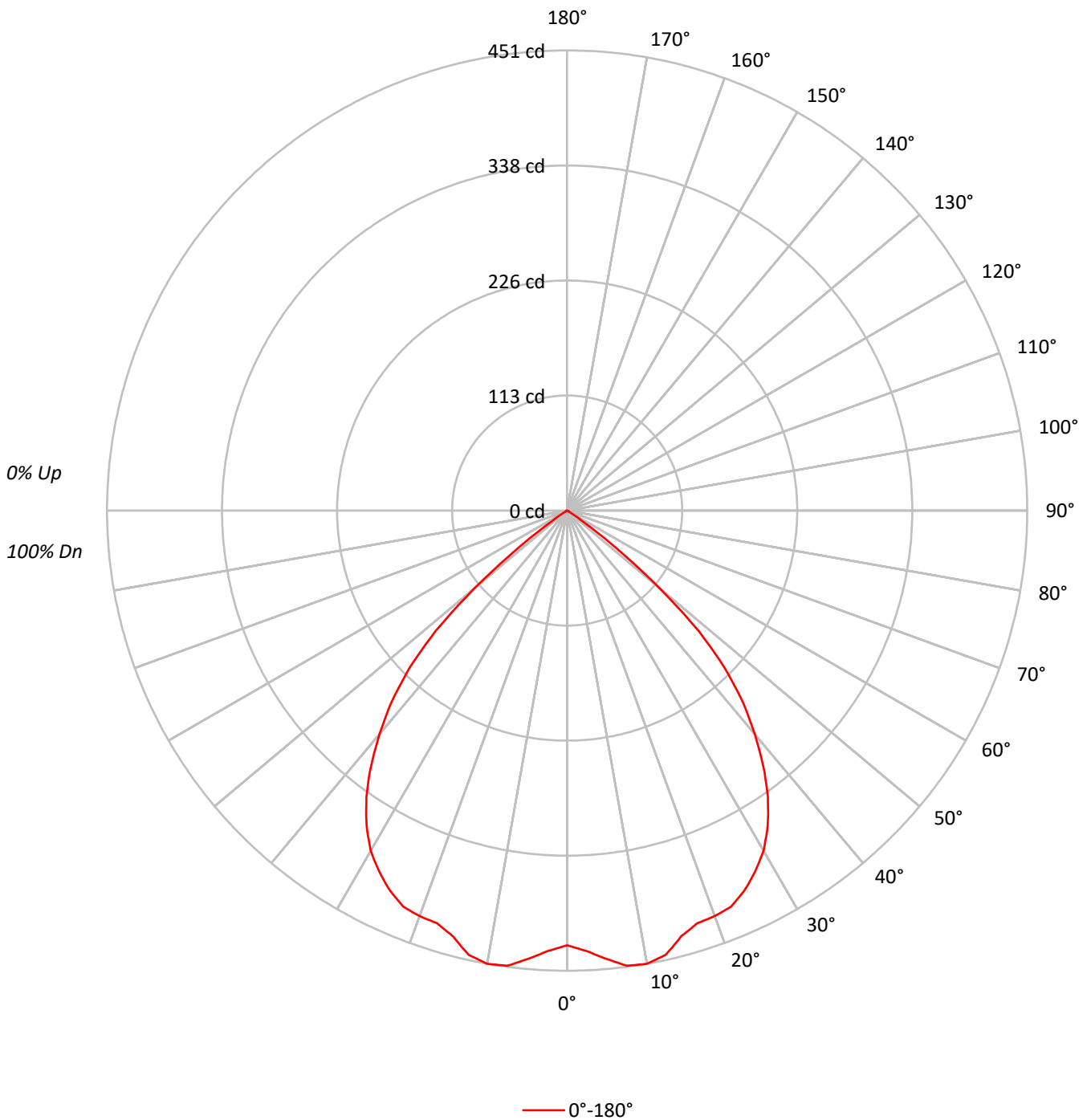
Input Watts (W): 19
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	30502
5°	31697
10°	32791
15°	32023
20°	32231
25°	32471
30°	31831
35°	29982
40°	26732
45°	22176
50°	13144
55°	2497
60°	286
65°	169
70°	209
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	42.5	5.6	3.5
10°-20°	122.7	16.1	10.2
20°-30°	188.5	24.7	15.7
30°-40°	212.5	27.9	17.7
40°-50°	163.0	21.4	13.6
50°-60°	32.0	4.2	2.7
60°-70°	1.1	0.1	0.1
70°-80°	0.4	0.1	0.0
80°-90°	0.0	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°	353.8	46.4	29.5
0°-40°	566.2	74.2	47.2
0°-60°	761.2	99.8	63.4
0°-90°	762.7	100.0	63.6
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°	762.7	100.0	63.6

CANDELA DISTRIBUTION:

	0°	Flux
0°	426	
5°	441	42
15°	432	123
25°	411	189
35°	343	212
45°	219	163
55°	20	32
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	426
2.5°	432
5°	441
7.5°	450
10°	451
12.5°	446
15°	432
17.5°	424
20°	423
22.5°	420
25°	411
27.5°	399
30°	385
32.5°	366
35°	343
37.5°	316
40°	286
42.5°	255
45°	219
47.5°	175
50°	118
52.5°	61
55°	20
57.5°	6
60°	2
62.5°	1
65°	1
67.5°	1
70°	1
72.5°	1
75°	0
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)