

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: 267p126

Luminaire Tested: **H270ICAT-13TTT-470SC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 267p126
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H270ICAT-13TTT-470SC
Description: HALO 6" RECESSED ROUND DOWNLIGHT, 13CF WITH SPECULAR CONE REFLECTOR
Light Source: ONE - F13TBX/SPX27/4P - 900 LUMENS - 13 WATTS
Ballast/Driver: CBT113L-120B

Summary

Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 606.3 lumens
Efficiency: 67.4%
Efficacy: 43.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.18
Luminous Opening: Circular (Dia: 0.44' x H: 0')
CIE Type: Direct

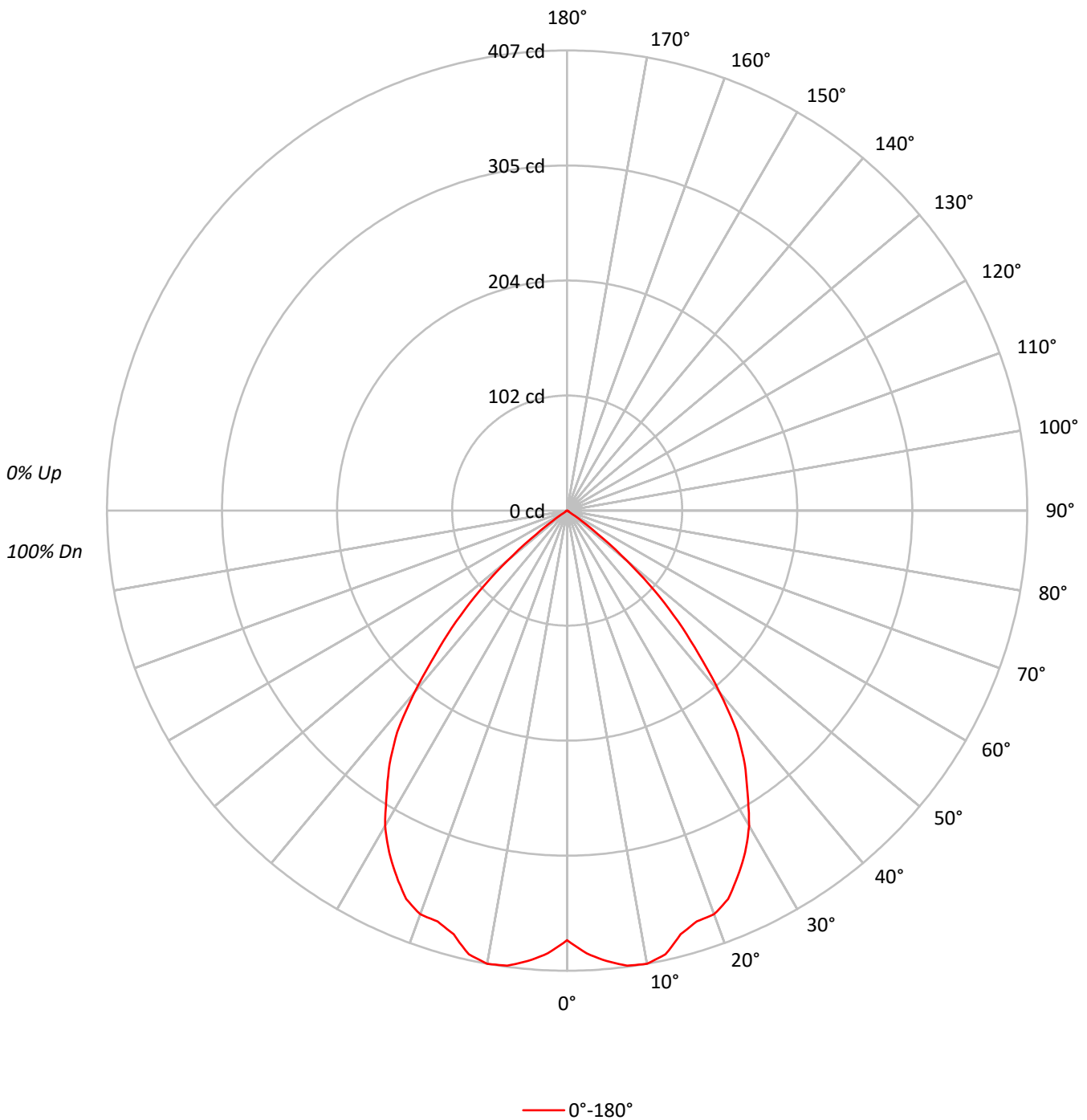
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	80	80	80	80	78	78	78	78	75	75	75		72	72	72		69	69	69	67
1	76	74	72	70	74	72	71	69	70	68	67		67	66	65		65	64	63	62
2	72	68	65	62	70	67	64	62	64	62	60		62	61	59		61	59	58	56
3	67	62	58	55	66	61	58	55	60	57	54		58	55	53		56	54	52	51
4	63	57	53	50	62	56	53	49	55	52	49		54	51	48		52	50	48	47
5	59	53	48	45	58	52	48	45	51	47	44		50	46	44		49	46	43	42
6	56	49	44	41	55	48	44	41	47	43	40		46	43	40		45	42	40	39
7	52	45	40	37	51	45	40	37	44	40	37		43	39	37		42	39	36	35
8	49	42	37	34	48	41	37	34	41	37	34		40	36	34		39	36	33	32
9	46	39	34	31	45	39	34	31	38	34	31		37	34	31		37	33	31	30
10	44	36	32	29	43	36	32	29	35	31	29		35	31	29		34	31	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	27209
5°	28750
10°	29592
15°	28762
20°	28955
25°	28204
30°	26623
35°	23950
40°	19629
45°	14075
50°	7686
55°	1498
60°	143
65°	169
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	38.4	6.3	4.3
10°-20°	110.4	18.2	12.3
20°-30°	163.6	27.0	18.2
30°-40°	168.9	27.9	18.8
40°-50°	106.1	17.5	11.8
50°-60°	18.0	3.0	2.0
60°-70°	0.9	0.1	0.1
70°-80°	0.0	0.0	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°	312.4	51.5	34.7
0°-40°	481.3	79.4	53.5
0°-60°	605.5	99.9	67.3
0°-90°	606.3	100.0	67.4
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°	606.3	100.0	67.4

CANDELA DISTRIBUTION:

	0°	Flux
0°	380	
5°	400	38
15°	388	110
25°	357	164
35°	274	169
45°	139	106
55°	12	18
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	380
2.5°	392
5°	400
7.5°	406
10°	407
12.5°	402
15°	388
17.5°	381
20°	380
22.5°	372
25°	357
27.5°	341
30°	322
32.5°	297
35°	274
37.5°	247
40°	210
42.5°	172
45°	139
47.5°	105
50°	69
52.5°	34
55°	12
57.5°	2
60°	1
62.5°	1
65°	1
67.5°	1
70°	0
72.5°	0
75°	0
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)