

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: 267p125

Luminaire Tested: **H570ICAT-13TTT-5021SC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 267p125
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H570ICAT-13TTT-5021SC
Description: HALO 5" RECESSED ROUND DOWNLIGHT, 13CF WITH CLEAR SPECULAR
RFL WITH WHITE TRIM
Light Source: ONE - F13TBX/SPX27 - 900 LUMENS - 13 WATTS
Ballast/Driver: -

Summary

Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 508.6 lumens
Efficiency: 56.5%
Efficacy: 36.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14
Luminous Opening: Circular (Dia: 0.38' x H: 0')
CIE Type: Direct

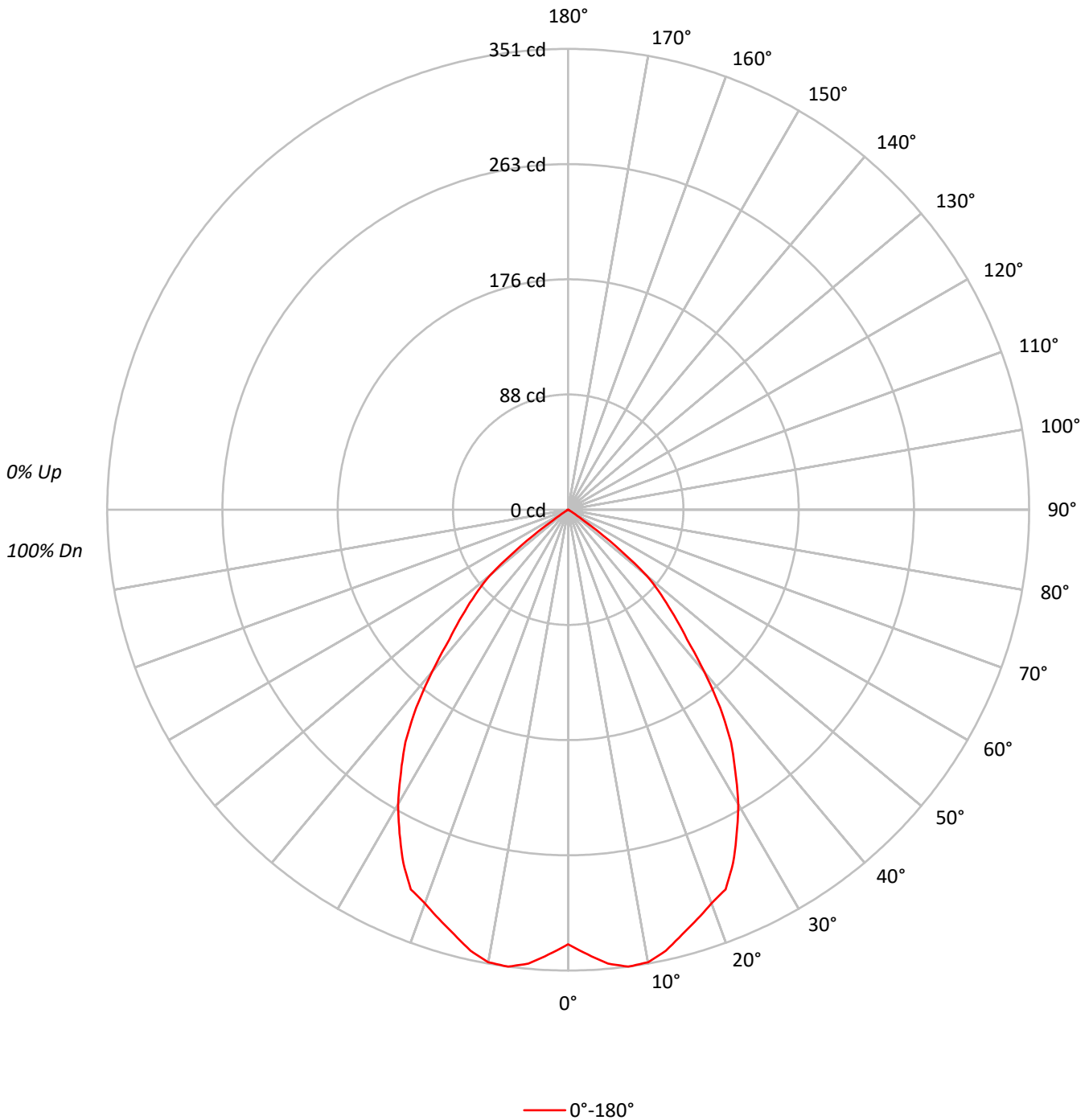
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	67	67	67	67	66	66	66	66	63	63	63		60	60	60		58	58	58	57
1	64	62	60	59	62	61	59	58	58	57	56		56	55	55		54	54	53	52
2	60	57	54	52	59	56	53	51	54	52	50		52	51	49		51	49	48	47
3	56	52	49	46	55	51	48	46	50	47	45		48	46	44		47	45	44	43
4	53	48	44	42	52	47	44	41	46	43	41		45	42	40		44	42	40	39
5	50	44	40	38	49	44	40	37	42	39	37		41	39	37		41	38	36	35
6	47	41	37	34	46	40	37	34	39	36	34		38	36	33		38	35	33	32
7	44	38	34	31	43	37	34	31	37	33	31		36	33	31		35	32	30	29
8	41	35	31	28	40	35	31	28	34	31	28		33	30	28		33	30	28	27
9	39	33	29	26	38	32	29	26	32	28	26		31	28	26		31	28	26	25
10	37	30	27	24	36	30	27	24	30	26	24		29	26	24		29	26	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	32259
5°	33947
10°	34637
15°	33800
20°	33084
25°	31937
30°	29147
35°	25698
40°	20483
45°	15712
50°	11826
55°	2549
60°	195
65°	231
70°	285
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	33.2	6.5	3.7
10°-20°	94.5	18.6	10.5
20°-30°	135.3	26.6	15.0
30°-40°	132.8	26.1	14.8
40°-50°	88.9	17.5	9.9
50°-60°	22.7	4.5	2.5
60°-70°	1.0	0.2	0.1
70°-80°	0.1	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°	263.0	51.7	29.2
0°-40°	395.8	77.8	44.0
0°-60°	507.5	99.8	56.4
0°-90°	508.6	100.0	56.5
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°	508.6	100.0	56.5

CANDELA DISTRIBUTION:

	0°	Flux
0°	331	
5°	347	33
15°	335	95
25°	297	135
35°	216	133
45°	114	89
55°	15	23
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	331
2.5°	339
5°	347
7.5°	351
10°	350
12.5°	344
15°	335
17.5°	327
20°	319
22.5°	313
25°	297
27.5°	278
30°	259
32.5°	237
35°	216
37.5°	190
40°	161
42.5°	134
45°	114
47.5°	96
50°	78
52.5°	46
55°	15
57.5°	4
60°	1
62.5°	1
65°	1
67.5°	1
70°	1
72.5°	0
75°	0
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)