

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: 267p128

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 267p128
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H570ICAT-13DTT-5021SC
Description: HALO 5" RECESSED ROUND DOWNLIGHT, 13CF WITH CLEAR SPECULAR
RFL WITH WHITE TRIM
Light Source: ONE - PL-C13W/4P - 900 LUMENS - 13 WATTS
Ballast/Driver: CBT113L-120B

Summary

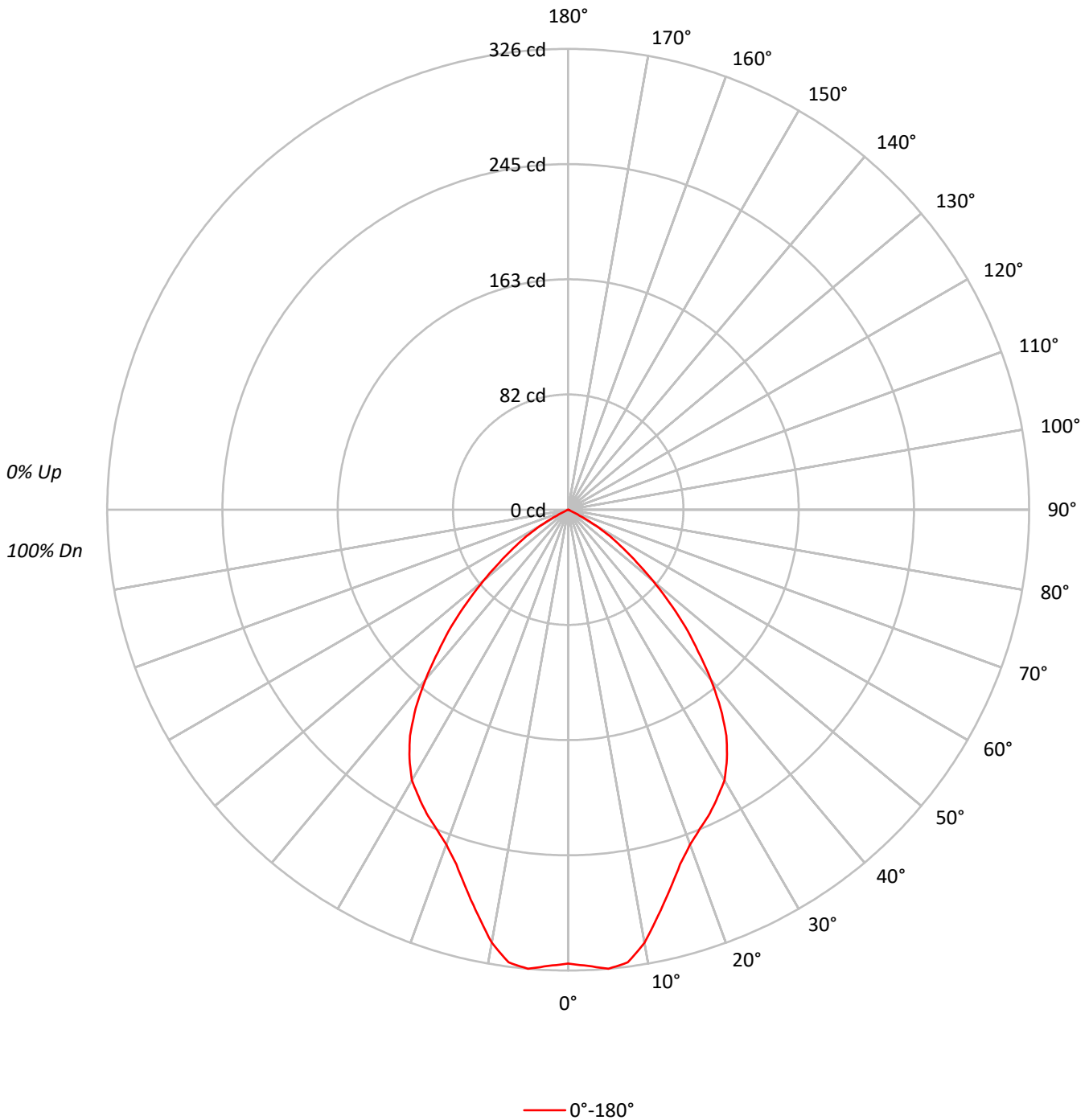
Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 476.5 lumens
Efficiency: 52.9%
Efficacy: 34.0 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.38' x H: 0')
CIE Type: Direct

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	63	63	63	63	62	62	62	62	59	59	59		56	56	56		54	54	54	53
1	59	58	56	55	58	57	55	54	54	53	52		52	52	51		51	50	49	48
2	56	53	50	48	54	52	49	47	50	48	46		48	47	45		47	45	44	43
3	52	48	45	42	51	47	44	42	46	43	41		44	42	40		43	41	40	39
4	49	44	40	37	48	43	40	37	42	39	37		41	38	36		40	38	36	35
5	45	40	36	33	44	39	36	33	38	35	33		38	35	33		37	34	32	31
6	42	37	33	30	42	36	33	30	35	32	30		35	32	30		34	31	29	28
7	40	34	30	27	39	33	30	27	33	29	27		32	29	27		31	29	27	26
8	37	31	28	25	37	31	27	25	30	27	25		30	27	25		29	26	24	24
9	35	29	25	23	34	29	25	23	28	25	23		28	25	23		27	24	22	22
10	33	27	23	21	33	27	23	21	26	23	21		26	23	21		25	23	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	31284
5°	31893
10°	30777
15°	28049
20°	26136
25°	25485
30°	24870
35°	23200
40°	19974
45°	16126
50°	11826
55°	7986
60°	4483
65°	231
70°	285
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	30.6	6.4	3.4
10°-20°	78.3	16.4	8.7
20°-30°	109.1	22.9	12.1
30°-40°	120.1	25.2	13.3
40°-50°	89.7	18.8	10.0
50°-60°	42.9	9.0	4.8
60°-70°	5.6	1.2	0.6
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°	218.0	45.8	24.2
0°-40°	338.2	71.0	37.6
0°-60°	470.8	98.8	52.3
0°-90°	476.5	100.0	52.9
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°	476.5	100.0	52.9

CANDELA DISTRIBUTION:

	0°	Flux
0°	321	
5°	326	31
15°	278	78
25°	237	109
35°	195	120
45°	117	90
55°	47	43
65°	1	6
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	321
2.5°	323
5°	326
7.5°	323
10°	311
12.5°	294
15°	278
17.5°	263
20°	252
22.5°	244
25°	237
27.5°	229
30°	221
32.5°	209
35°	195
37.5°	177
40°	157
42.5°	136
45°	117
47.5°	97
50°	78
52.5°	61
55°	47
57.5°	35
60°	23
62.5°	9
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)