

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: 258p112

Luminaire Tested: **H571RICAT-18WCF-5021SC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 258p112
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H571RICAT-18WCF-5021SC
Description: 5" OPEN RECESSED DOWNLIGHT, 18W CF, SPECULAR CONE WITH, WHITE
SPRAY
Light Source: ONE - GE - F18TBX/SPX27/4P - 1200 LUMENS - 18 WATTS
Ballast/Driver: ADVANCE 2518-M1-LS-QS

Summary

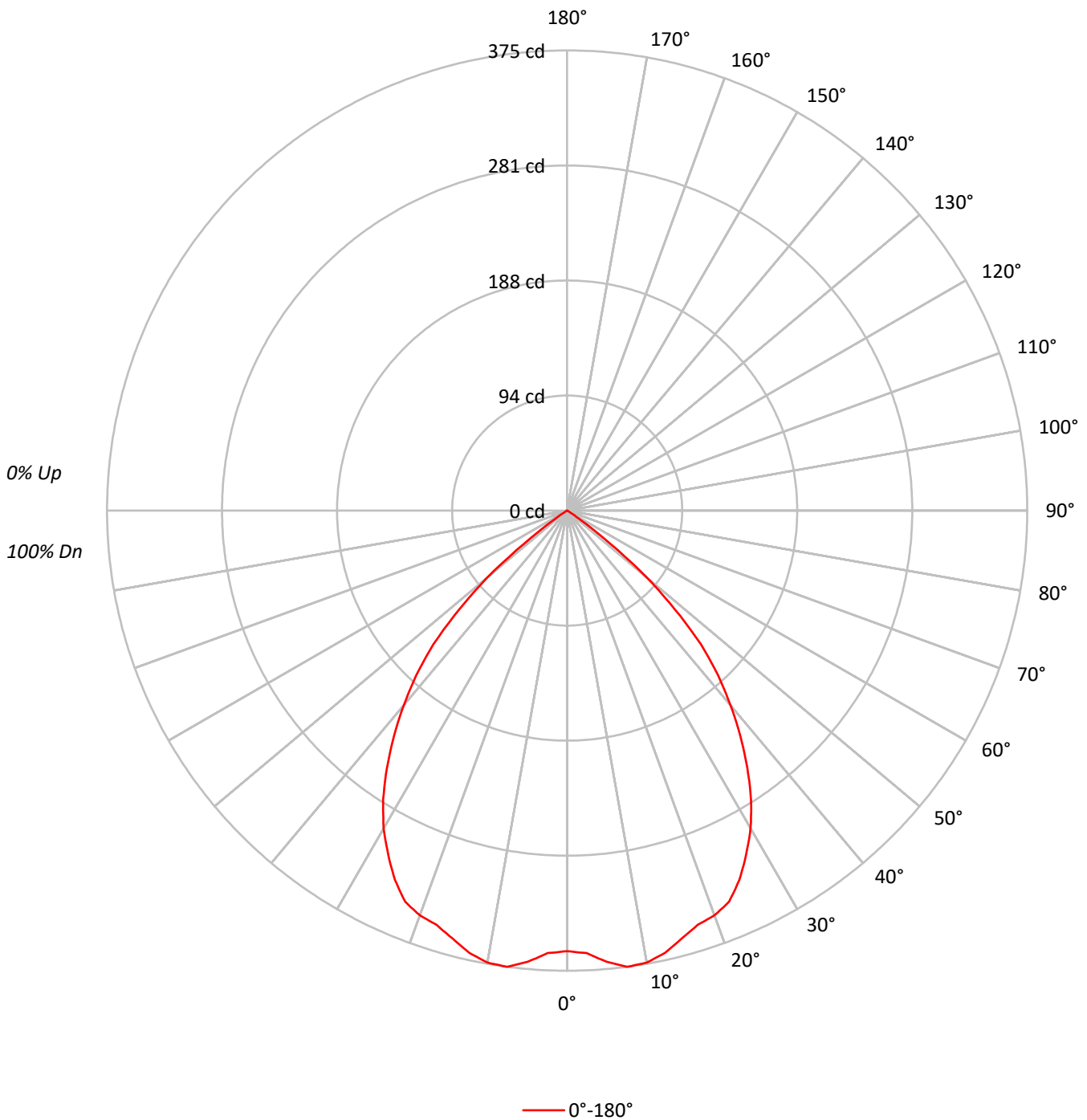
Lumens per Lamp: 1200 (1 lamp)
Luminaire Lumens: 587.2 lumens
Efficiency: 48.9%
Efficacy: 30.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.2
Luminous Opening: Circular (Dia: 0.38' x H: 0')
CIE Type: Direct

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	58	58	58	58	57	57	57	57	54	54	54		52	52	52		50	50	50	49
1	55	54	52	51	54	53	51	50	51	50	49		49	48	47		47	46	46	45
2	52	49	47	45	51	48	46	44	47	45	43		45	44	42		44	43	42	41
3	49	45	42	40	48	44	42	40	43	41	39		42	40	38		41	39	38	37
4	46	41	38	36	45	41	38	35	40	37	35		39	36	35		38	36	34	33
5	43	38	35	32	42	37	34	32	36	34	32		36	33	31		35	33	31	30
6	40	35	32	29	39	35	31	29	34	31	29		33	30	29		32	30	28	28
7	38	32	29	26	37	32	29	26	31	28	26		31	28	26		30	28	26	25
8	35	30	26	24	35	30	26	24	29	26	24		28	26	24		28	26	24	23
9	33	28	24	22	33	27	24	22	27	24	22		27	24	22		26	24	22	21
10	31	26	23	20	31	26	22	20	25	22	20		25	22	20		24	22	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	34987
5°	36099
10°	37012
15°	36423
20°	36403
25°	35701
30°	33648
35°	30457
40°	26335
45°	21225
50°	12888
55°	2379
60°	195
65°	231
70°	285
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	35.4	6.0	3.0
10°-20°	102.1	17.4	8.5
20°-30°	151.8	25.8	12.6
30°-40°	159.1	27.1	13.3
40°-50°	115.1	19.6	9.6
50°-60°	22.6	3.9	1.9
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°	289.3	49.3	24.1
0°-40°	448.4	76.4	37.4
0°-60°	586.0	99.8	48.8
0°-90°	587.2	100.0	48.9
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°	587.2	100.0	48.9

CANDELA DISTRIBUTION:

	0°	Flux
0°	359	
5°	369	35
15°	361	102
25°	332	152
35°	256	159
45°	154	115
55°	14	23
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	359
2.5°	361
5°	369
7.5°	375
10°	374
12.5°	369
15°	361
17.5°	354
20°	351
22.5°	345
25°	332
27.5°	316
30°	299
32.5°	279
35°	256
37.5°	232
40°	207
42.5°	182
45°	154
47.5°	119
50°	85
52.5°	44
55°	14
57.5°	3
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)