

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: 267p151

Luminaire Tested: **H471ICAT-18CF-952PS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 267p151
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H4711CAT-18CF-952PS
Description: 4" RECESSED WITH SPECULAR CONE REFLECTOR AND BLACK TRIM RING,
FROSTED DROP LENS
Light Source: ONE COMPACT FLUORESCENT TRIPLE TUBE LAMP
F18TBX/SPX27 18 WATTS
Ballast/Driver: -

Summary

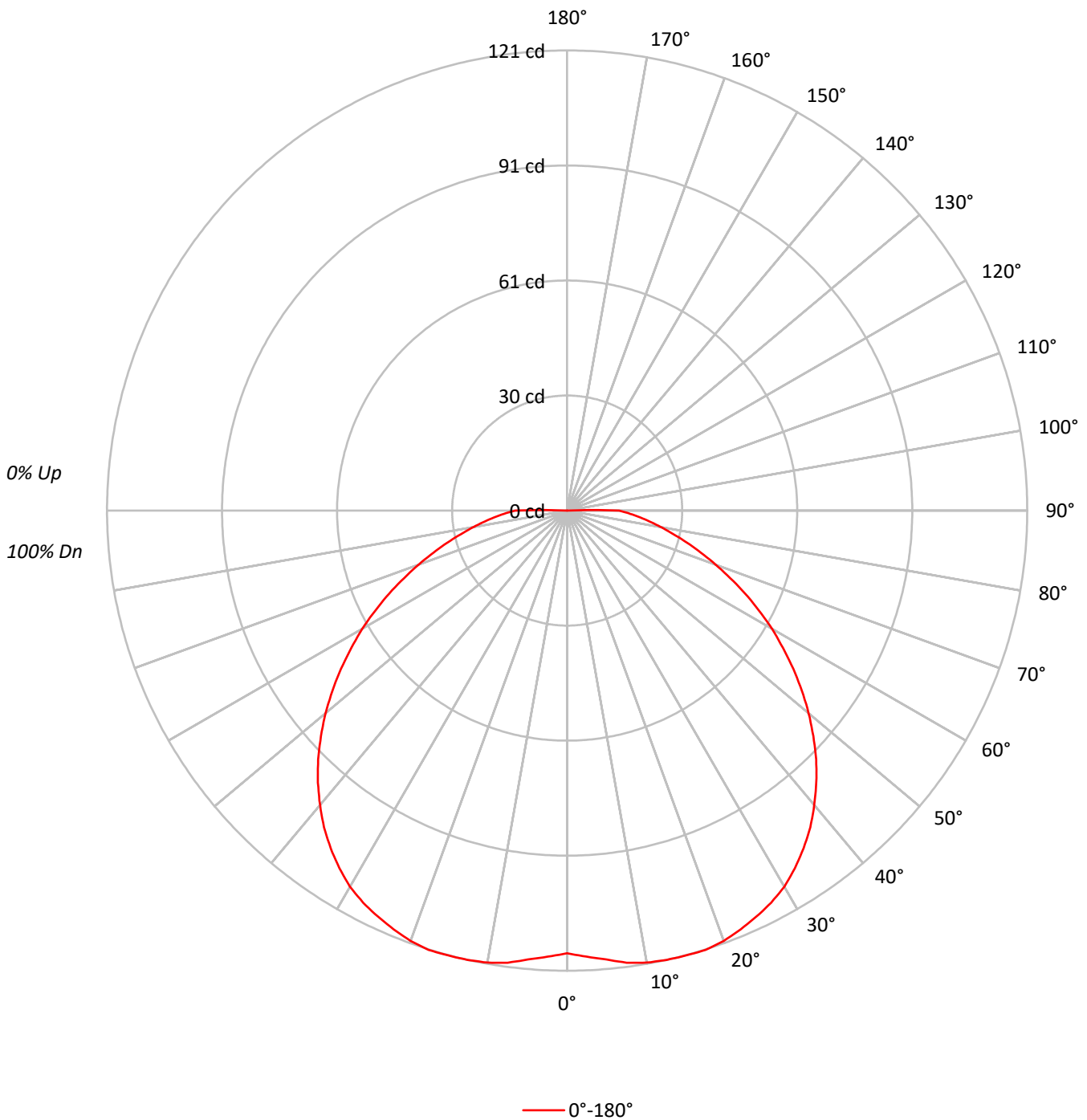
Lumens per Lamp: 1200 (1 lamp)
Luminaire Lumens: 412.5 lumens
Efficiency: 34.4%
Efficacy: 21.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.43 / 1.49
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 19
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



TEST NUMBER: 267p151
CATALOG NUMBER: H4711CAT-18CF-952PS

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	41	41	41	41	40	40	40	40	38	38	38	36	36	36	35	35	35	34
1	37	35	33	32	36	34	33	31	33	31	30	31	30	29	30	29	28	28
2	33	30	28	25	32	30	27	25	28	26	25	27	25	24	26	25	23	23
3	30	26	23	21	29	26	23	21	25	22	20	24	22	20	23	21	20	19
4	28	23	20	18	27	23	20	17	22	19	17	21	19	17	20	18	17	16
5	25	21	17	15	25	20	17	15	20	17	15	19	16	15	18	16	14	14
6	23	19	15	13	23	18	15	13	18	15	13	17	15	13	16	14	13	12
7	22	17	14	12	21	17	14	11	16	13	11	15	13	11	15	13	11	10
8	20	15	12	10	20	15	12	10	15	12	10	14	12	10	14	12	10	9
9	19	14	11	9	18	14	11	9	13	11	9	13	11	9	13	11	9	8
10	18	13	10	8	17	13	10	8	12	10	8	12	10	8	12	10	8	7

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14357
5°	14672
10°	15117
15°	15464
20°	15804
25°	16032
30°	16265
35°	16323
40°	16279
45°	16153
50°	15908
55°	15612
60°	15344
65°	15060
70°	14966
75°	15536
80°	17758
85°	26606



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	11.4	2.8	0.9
10°-20°	34.3	8.3	2.9
20°-30°	54.4	13.2	4.5
30°-40°	67.8	16.4	5.6
40°-50°	71.3	17.3	5.9
50°-60°	64.9	15.7	5.4
60°-70°	51.2	12.4	4.3
70°-80°	34.7	8.4	2.9
80°-90°	20.7	5.0	1.7
90°-100°	1.9	0.5	0.2
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°	100.0	24.3	8.3
0°-40°	167.8	40.7	14.0
0°-60°	304.1	73.7	25.3
0°-90°	410.6	99.5	34.2
90°-120°	1.9	0.5	0.2
90°-150°	1.9	0.5	0.2
90°-180°	2.0	0.5	0.2
0°-180°	412.5	100.0	34.4

CANDELA DISTRIBUTION:

	0°	Flux
0°	116	
5°	118	11
15°	121	34
25°	118	54
35°	108	68
45°	93	71
55°	73	65
65°	52	51
75°	33	35
85°	19	17
90°	14	6
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



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CANDELA DISTRIBUTION (FULL):

0°	
0°	116.4
2.5°	117.4
5°	118.5
7.5°	119.9
10°	120.7
12.5°	121.0
15°	121.1
17.5°	121.1
20°	120.4
22.5°	119.2
25°	117.8
27.5°	116.2
30°	114.2
32.5°	111.5
35°	108.4
37.5°	105.0
40°	101.1
42.5°	97.0
45°	92.6
47.5°	87.8
50°	82.9
52.5°	77.8
55°	72.6
57.5°	67.3
60°	62.2
62.5°	56.8
65°	51.6
67.5°	46.4
70°	41.5
72.5°	36.9
75°	32.6
77.5°	28.6
80°	25.0
82.5°	21.8
85°	18.8
87.5°	16.1
90°	13.7
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)