

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: H22551

Luminaire Tested: **H272ICAT-406 WB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: H22551
Test Lab: Peachtree City
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H272ICAT-406 WB
Description: HALO 6 IN RECESSED FLUORESCENT DOWNLIGHT
WITH SELF FLANGED TRIM AND SOCKET BRACKET AS LOW AS TRIM WILL ALLOW
LAMP TIP 7/16 INCHES FROM REFLECTOR OPENING
Light Source: 4 PIN DTT COMPACT FLUORESCENT LAMP
CFQ26W/G24D/835 26 WATTS
Ballast/Driver: -

Summary

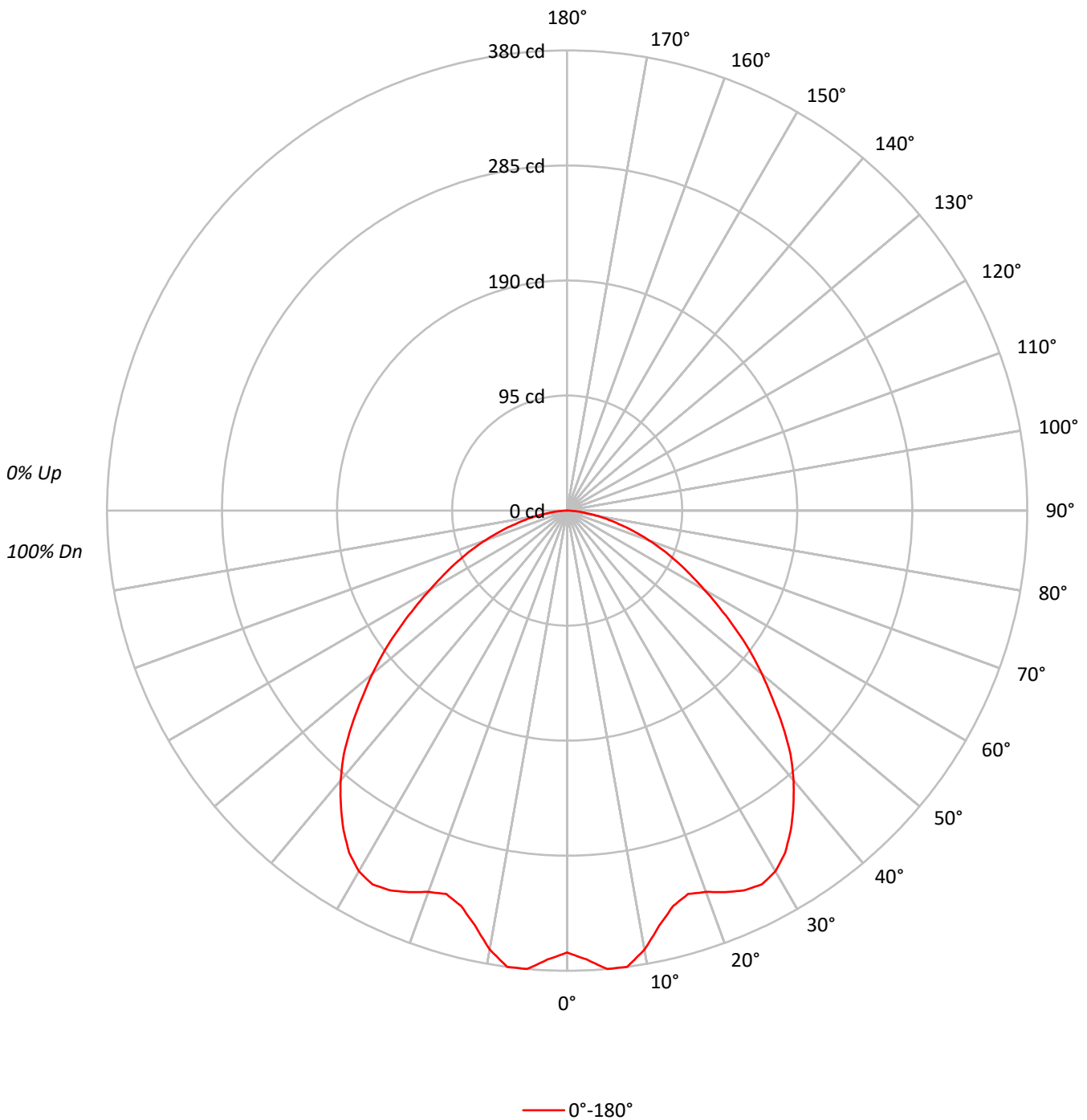
Lumens per Lamp: 1800 (1 lamp)
Luminaire Lumens: 997.6 lumens
Efficiency: 55.4%
Efficacy: 38.4 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.4
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

Input Watts (W): 26
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	66	66	66	66	64	64	64	64	62	62	62	59	59	59	57	57	57	55
1	61	58	56	54	59	57	55	53	55	53	52	53	51	50	51	50	49	47
2	56	51	48	45	54	50	47	44	48	46	43	46	44	42	45	43	41	40
3	51	45	41	38	50	44	40	37	43	39	37	41	38	36	40	37	35	34
4	47	40	36	32	45	40	35	32	38	34	31	37	34	31	36	33	31	29
5	43	36	31	28	42	36	31	28	34	30	27	33	30	27	32	29	27	26
6	40	33	28	24	39	32	28	24	31	27	24	30	27	24	29	26	24	22
7	37	30	25	22	36	29	25	21	28	24	21	27	24	21	27	23	21	20
8	34	27	22	19	33	27	22	19	26	22	19	25	22	19	25	21	19	18
9	32	25	20	17	31	24	20	17	24	20	17	23	20	17	23	19	17	16
10	30	23	19	16	29	23	18	16	22	18	16	21	18	15	21	18	15	14

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	21787
5°	22769
10°	22305
15°	20887
20°	21280
25°	22788
30°	23710
35°	23464
40°	22675
45°	21273
50°	19501
55°	17587
60°	15639
65°	14124
70°	12566
75°	10609
80°	8937
85°	5479



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	35.9	3.6	2.0
10°-20°	96.8	9.7	5.4
20°-30°	159.2	16.0	8.8
30°-40°	200.6	20.1	11.1
40°-50°	193.8	19.4	10.8
50°-60°	151.5	15.2	8.4
60°-70°	99.5	10.0	5.5
70°-80°	49.8	5.0	2.8
80°-90°	10.6	1.1	0.6
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°	291.8	29.3	16.2
0°-40°	492.4	49.4	27.4
0°-60°	837.7	84.0	46.5
0°-90°	997.6	100.0	55.4
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°	997.6	100.0	55.4

CANDELA DISTRIBUTION:

	0°	Flux
0°	365	
5°	380	36
15°	338	97
25°	346	159
35°	322	201
45°	252	194
55°	169	151
65°	100	100
75°	46	50
85°	8	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	365
2.5°	371
5°	380
7.5°	380
10°	368
12.5°	351
15°	338
17.5°	332
20°	335
22.5°	341
25°	346
27.5°	348
30°	344
32.5°	335
35°	322
37.5°	307
40°	291
42.5°	273
45°	252
47.5°	230
50°	210
52.5°	190
55°	169
57.5°	149
60°	131
62.5°	115
65°	100
67.5°	86
70°	72
72.5°	59
75°	46
77.5°	35
80°	26
82.5°	16
85°	8
87.5°	2
90°	0

(END OF REPORT)