

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: H22545

Luminaire Tested: **H271ICAT-406 WB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: H22545
Test Lab: Peachtree City
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H271ICAT-406 WB
Description: HALO 6 IN RECESSED FLUORESCENT DOWNLIGHT
WITH SELF FLANGED TRIM AND SOCKET BRACKET AS LOW AS TRIM WILL ALLOW
LAMP TIP 15/16 INCHES FROM REFLECTOR OPENING
Light Source: 4 PIN DTT COMPACT FLUORESCENT LAMP
CF18DD/E/835 18 WATTS
Ballast/Driver: -

Summary

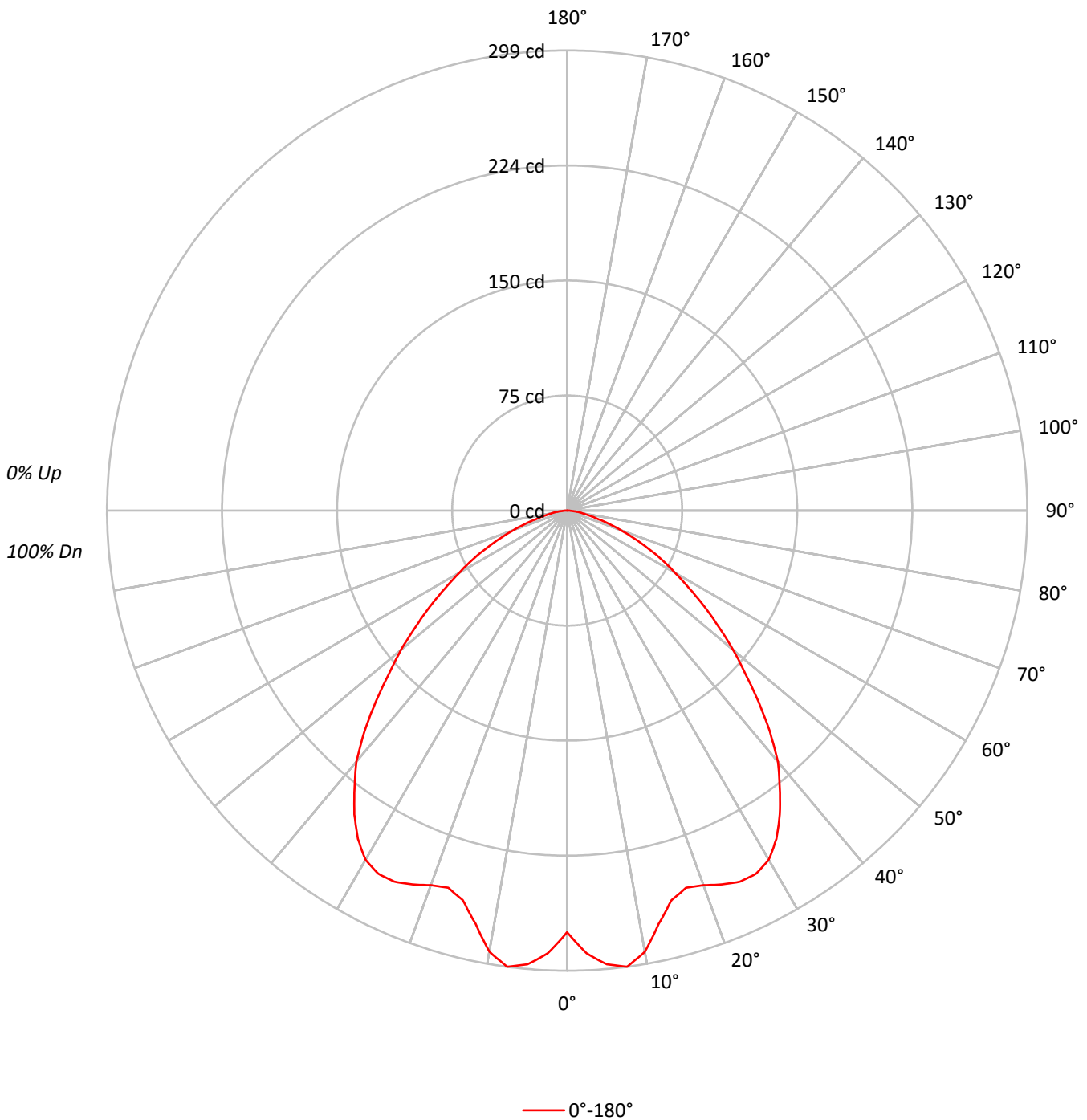
Lumens per Lamp: 1250 (1 lamp)
Luminaire Lumens: 693.8 lumens
Efficiency: 55.5%
Efficacy: 36.5 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.36
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

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



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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	65	65	65	65	62	62	62	59	59	59	57	57	57	56
1	61	59	57	55	60	58	56	54	55	54	53	53	52	51	51	50	49	48
2	56	52	49	46	55	51	48	46	49	47	45	48	45	44	46	44	43	41
3	52	47	42	39	50	46	42	39	44	41	38	43	40	38	41	39	37	36
4	48	42	37	34	47	41	37	34	40	36	33	38	35	33	37	34	32	31
5	44	37	33	29	43	37	33	29	36	32	29	35	31	29	34	31	28	27
6	41	34	29	26	40	33	29	26	32	29	26	32	28	25	31	28	25	24
7	38	31	26	23	37	30	26	23	30	26	23	29	25	23	28	25	23	21
8	35	28	24	21	35	28	24	21	27	23	20	26	23	20	26	23	20	19
9	33	26	22	19	32	26	21	19	25	21	19	24	21	18	24	21	18	17
10	31	24	20	17	30	24	20	17	23	19	17	23	19	17	22	19	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	16355
5°	17736
10°	17638
15°	16191
20°	16452
25°	17519
30°	18058
35°	17561
40°	16597
45°	14857
50°	13094
55°	11343
60°	9670
65°	8192
70°	6457
75°	4613
80°	3437
85°	2739



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	28.1	4.0	2.2
10°-20°	75.3	10.8	6.0
20°-30°	122.2	17.6	9.8
30°-40°	149.9	21.6	12.0
40°-50°	135.7	19.6	10.9
50°-60°	97.7	14.1	7.8
60°-70°	57.8	8.3	4.6
70°-80°	22.5	3.2	1.8
80°-90°	4.6	0.7	0.4
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°	225.6	32.5	18.0
0°-40°	375.5	54.1	30.0
0°-60°	608.9	87.8	48.7
0°-90°	693.8	100.0	55.5
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°	693.8	100.0	55.5

CANDELA DISTRIBUTION:

	0°	Flux
0°	274	
5°	296	28
15°	262	75
25°	266	122
35°	241	150
45°	176	136
55°	109	98
65°	58	58
75°	20	23
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	274
2.5°	288
5°	296
7.5°	299
10°	291
12.5°	275
15°	262
17.5°	257
20°	259
22.5°	263
25°	266
27.5°	266
30°	262
32.5°	253
35°	241
37.5°	227
40°	213
42.5°	195
45°	176
47.5°	157
50°	141
52.5°	124
55°	109
57.5°	94
60°	81
62.5°	70
65°	58
67.5°	47
70°	37
72.5°	28
75°	20
77.5°	14
80°	10
82.5°	7
85°	4
87.5°	1
90°	0

(END OF REPORT)