

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: H22557

Luminaire Tested: **H272ICAT-406 WB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: H22557
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: 1010.8 lumens
Efficiency: 56.2%
Efficacy: 37.4 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.38
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

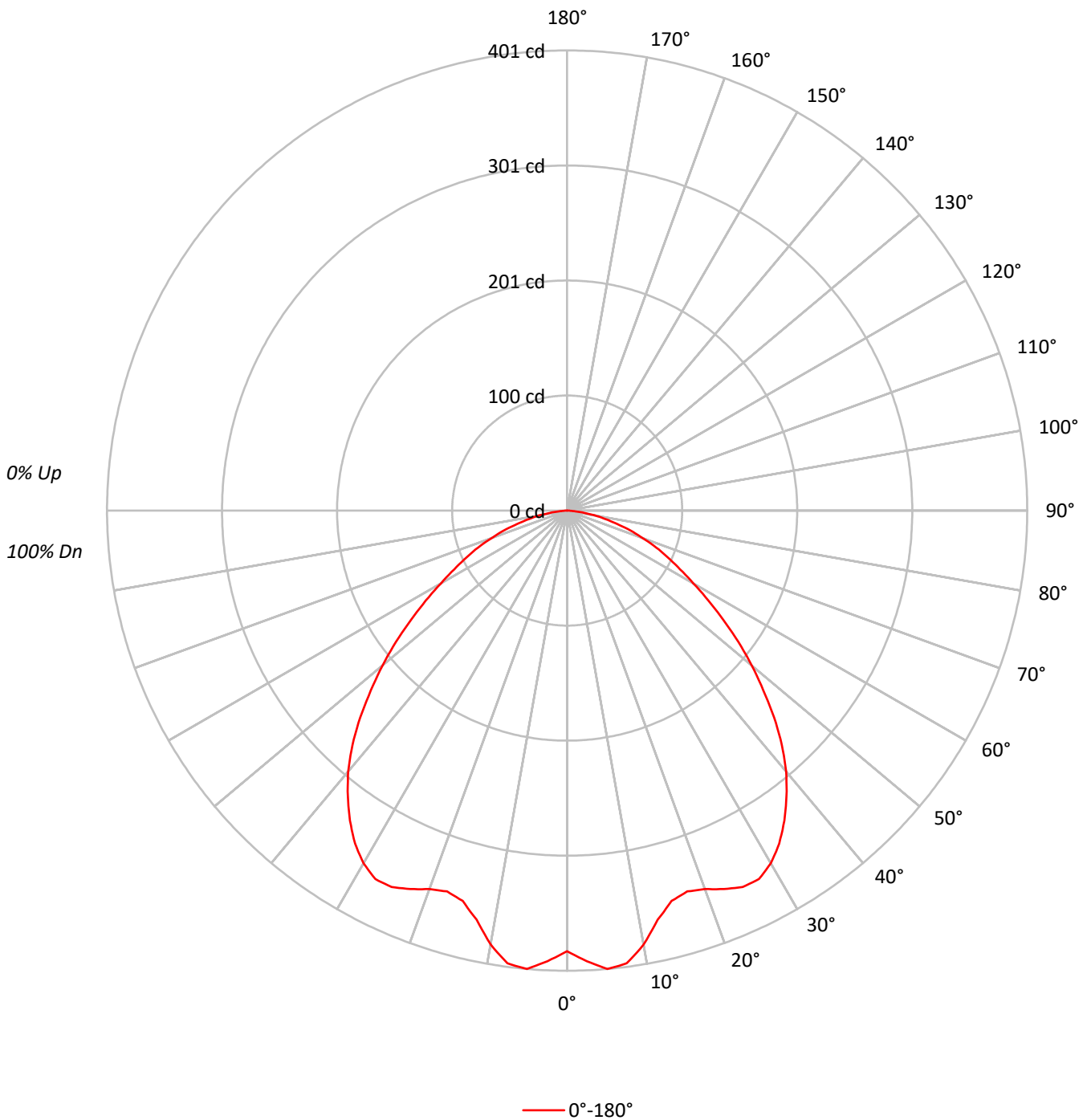
Input Watts (W): 27
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	67	67	67	67	65	65	65	65	62	62	62		60	60	60		57	57	57	56
1	62	59	57	55	60	58	56	54	56	54	52		53	52	51		51	50	49	48
2	56	52	49	46	55	51	48	45	49	46	44		47	45	43		46	44	42	41
3	52	46	42	38	50	45	41	38	44	40	37		42	39	37		41	38	36	35
4	48	41	36	33	46	40	36	33	39	35	32		38	34	32		37	34	31	30
5	44	37	32	28	43	36	32	28	35	31	28		34	30	28		33	30	27	26
6	41	33	28	25	39	33	28	25	32	28	25		31	27	24		30	27	24	23
7	38	30	25	22	37	30	25	22	29	25	22		28	24	22		27	24	22	21
8	35	28	23	20	34	27	23	20	27	22	20		26	22	20		25	22	19	18
9	33	25	21	18	32	25	21	18	24	20	18		24	20	18		23	20	18	17
10	31	23	19	16	30	23	19	16	23	19	16		22	19	16		22	18	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	25052
5°	26261
10°	25439
15°	23775
20°	24369
25°	26059
30°	26743
35°	26283
40°	25294
45°	23527
50°	21314
55°	18881
60°	16571
65°	14974
70°	13353
75°	11343
80°	9393
85°	5240



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	37.7	3.7	2.1
10°-20°	101.0	10.0	5.6
20°-30°	166.0	16.4	9.2
30°-40°	205.6	20.3	11.4
40°-50°	196.1	19.4	10.9
50°-60°	149.2	14.8	8.3
60°-70°	96.6	9.6	5.4
70°-80°	48.6	4.8	2.7
80°-90°	9.9	1.0	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°	304.7	30.1	16.9
0°-40°	510.4	50.5	28.4
0°-60°	855.7	84.7	47.5
0°-90°	1010.8	100.0	56.2
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°	1010.8	100.0	56.2

CANDELA DISTRIBUTION:

	0°	Flux
0°	384	
5°	401	38
15°	352	101
25°	362	166
35°	330	206
45°	255	196
55°	166	149
65°	97	97
75°	45	49
85°	7	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	384
2.5°	393
5°	401
7.5°	398
10°	384
12.5°	365
15°	352
17.5°	348
20°	351
22.5°	357
25°	362
27.5°	362
30°	355
32.5°	344
35°	330
37.5°	314
40°	297
42.5°	277
45°	255
47.5°	232
50°	210
52.5°	188
55°	166
57.5°	146
60°	127
62.5°	111
65°	97
67.5°	84
70°	70
72.5°	58
75°	45
77.5°	34
80°	25
82.5°	15
85°	7
87.5°	2
90°	0

(END OF REPORT)