

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: H22539

Luminaire Tested: **H270ICAT-406 WB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: H22539
Test Lab: Peachtree City
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H270ICAT-406 WB
Description: HALO 6 IN RECESSED FLUORESCENT DOWNLIGHT
WITH SELF FLANGED TRIM AND SOCKET BRACKET AS LOW AS TRIM WILL ALLOW
Light Source: 4 PIN DTT COMPACT FLUORESCENT LAMP
PL-C 13W/27/4P 13 WATTS
Ballast/Driver: -

Summary

Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 538.8 lumens
Efficiency: 59.9%
Efficacy: 35.9 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.4 / 1.4
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

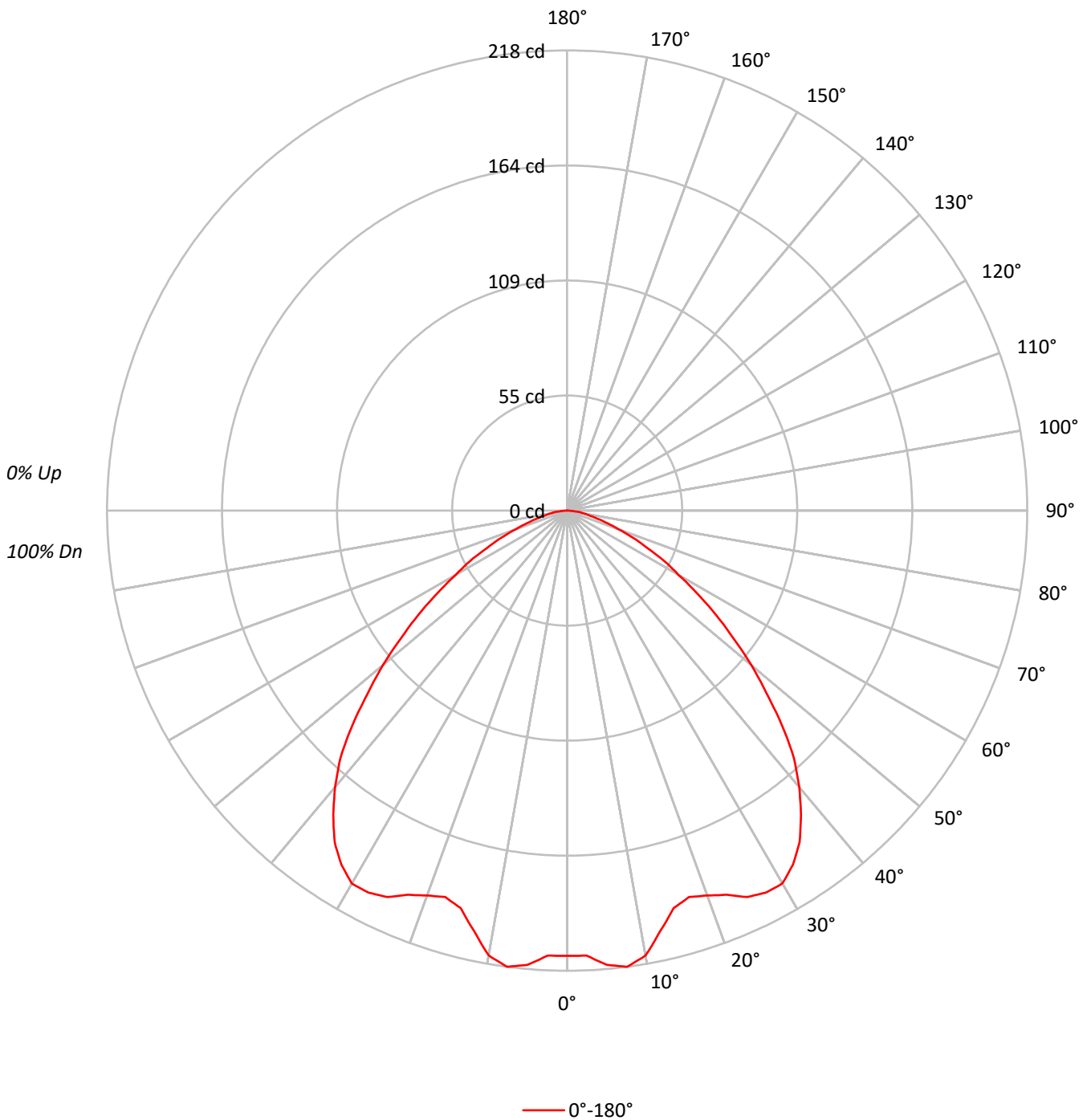
Input Watts (W): 15
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	71	71	71	71	70	70	70	70	67	67	67		64	64	64		61	61	61	60
1	66	64	61	59	64	62	60	58	60	58	57		57	56	55		55	54	53	52
2	61	56	53	50	59	55	52	49	53	50	48		51	49	47		50	48	46	45
3	56	50	46	42	54	49	45	42	48	44	41		46	43	40		44	42	40	39
4	51	45	40	36	50	44	40	36	43	39	36		41	38	35		40	37	35	33
5	47	40	35	32	46	40	35	31	38	34	31		37	34	31		36	33	30	29
6	44	36	31	28	43	36	31	28	35	31	27		34	30	27		33	30	27	26
7	41	33	28	25	40	33	28	25	32	28	24		31	27	24		30	27	24	23
8	38	30	25	22	37	30	25	22	29	25	22		28	25	22		28	24	22	21
9	36	28	23	20	35	27	23	20	27	23	20		26	22	20		26	22	20	19
10	33	26	21	18	33	25	21	18	25	21	18		24	20	18		24	20	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12595
5°	12942
10°	12971
15°	12050
20°	12323
25°	13304
30°	14061
35°	13991
40°	13324
45°	12156
50°	10586
55°	8950
60°	7282
65°	5932
70°	4538
75°	3459
80°	2750
85°	2055



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	20.6	3.8	2.3
10°-20°	56.0	10.4	6.2
20°-30°	93.0	17.3	10.3
30°-40°	119.0	22.1	13.2
40°-50°	110.4	20.5	12.3
50°-60°	77.0	14.3	8.6
60°-70°	42.3	7.9	4.7
70°-80°	16.6	3.1	1.8
80°-90°	3.8	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°	169.6	31.5	18.8
0°-40°	288.6	53.6	32.1
0°-60°	476.0	88.4	52.9
0°-90°	538.8	100.0	59.9
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°	538.8	100.0	59.9

CANDELA DISTRIBUTION:

	0°	Flux
0°	211	
5°	216	21
15°	195	56
25°	202	93
35°	192	119
45°	144	110
55°	86	77
65°	42	42
75°	15	17
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	211
2.5°	211
5°	216
7.5°	218
10°	214
12.5°	204
15°	195
17.5°	192
20°	194
22.5°	197
25°	202
27.5°	204
30°	204
32.5°	199
35°	192
37.5°	182
40°	171
42.5°	159
45°	144
47.5°	128
50°	114
52.5°	99
55°	86
57.5°	73
60°	61
62.5°	52
65°	42
67.5°	34
70°	26
72.5°	20
75°	15
77.5°	11
80°	8
82.5°	6
85°	3
87.5°	1
90°	0

(END OF REPORT)