

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: H20204

Luminaire Tested: **LF506SP670AH**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: H20204
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: LF506SP670AH
Description: HALO SYNCHRO 506-T6 HID ACCENT TRACK FIXTURE
WITH CLEAR GLASS LENS AND SPOT REFLECTOR
Light Source: BI PIN G12 T6 CLEAR CERAMIC METAL HALIDE LAMP (POWER BALL)
HCI-T 70W/930 WDL 70 WATTS
Ballast/Driver: -

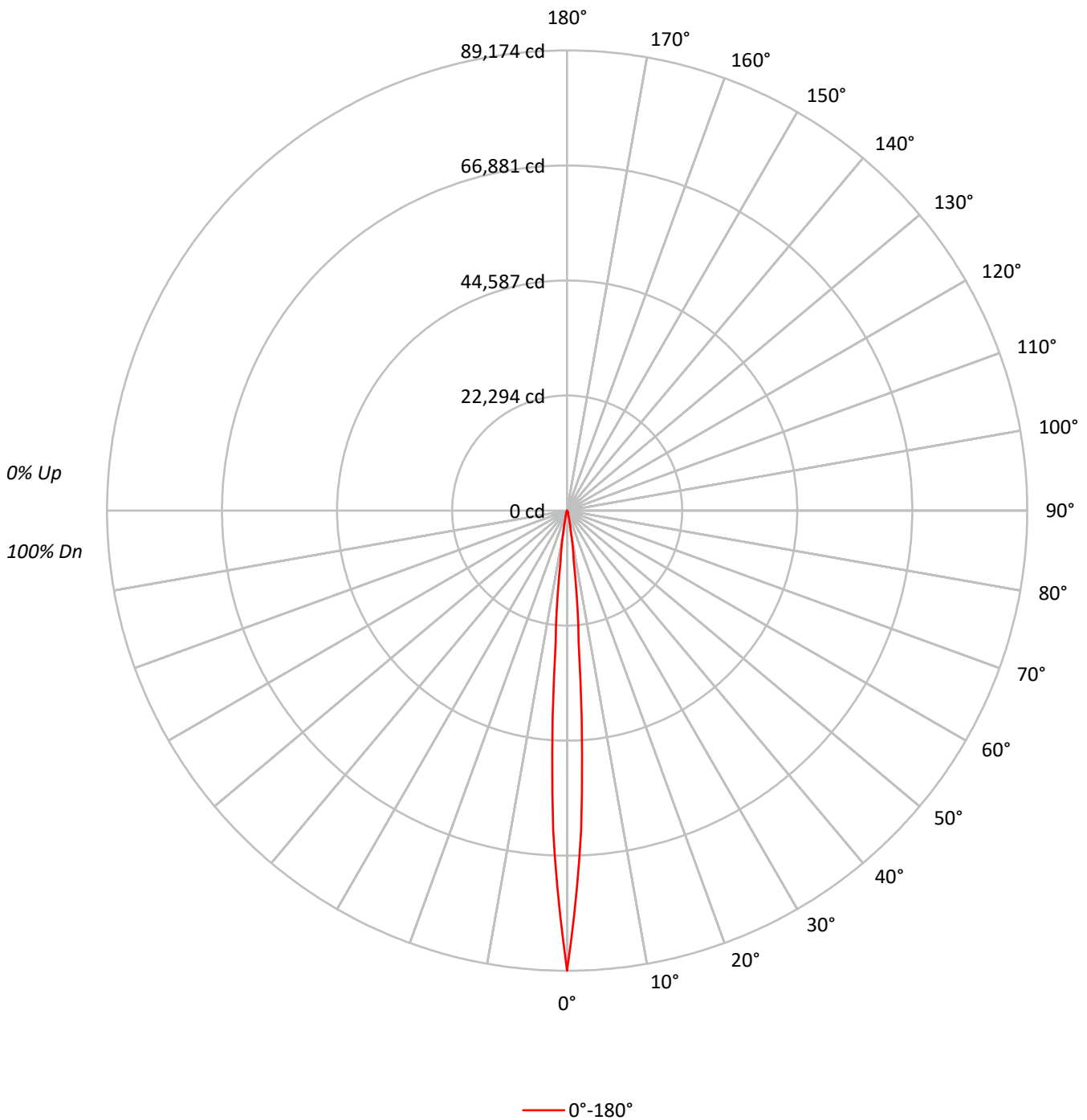
Summary

Lumens per Lamp: 5800 (1 lamp)
Luminaire Lumens: 2745.3 lumens
Efficiency: 47.3%
Efficacy: 39.2 lumens/watt
Spacing Criteria (0/90/45): 0.13 / 0.13 / 0.14
Luminous Opening: Circular (Dia: 0.44' x H: 0')
CIE Type: Direct

Input Watts (W): 70
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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	56	56	56	56	55	55	55	55	53	53	53	50	50	50	48	48	48	47	47	47
1	55	54	53	53	54	53	52	52	51	51	50	49	49	49	48	48	47	47	47	47
2	54	52	51	50	53	51	50	49	50	49	48	49	48	47	47	47	46	46	46	46
3	52	51	49	48	52	50	49	48	49	48	47	48	47	46	47	46	46	45	45	45
4	51	49	48	47	51	49	47	46	48	47	46	47	46	45	46	46	45	44	44	44
5	50	48	47	46	50	48	46	45	47	46	45	46	45	45	46	45	44	44	44	44
6	49	47	46	45	49	47	46	45	46	45	44	46	45	44	45	44	44	43	43	43
7	49	46	45	44	48	46	45	44	46	44	44	45	44	43	45	44	43	43	43	43
8	48	46	44	43	48	45	44	43	45	44	43	45	44	43	44	43	43	42	42	42
9	47	45	44	43	47	45	44	43	45	43	43	44	43	42	44	43	42	42	42	42
10	47	44	43	42	46	44	43	42	44	43	42	44	43	42	44	43	42	42	42	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6385024
5°	1832894
10°	301804
15°	74721
20°	37184
25°	38001
30°	15874
35°	6643
40°	5702
45°	4152
50°	4122
55°	3620
60°	2721
65°	847
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	2053.8	74.8	35.4
10°-20°	369.6	13.5	6.4
20°-30°	199.3	7.3	3.4
30°-40°	56.3	2.0	1.0
40°-50°	34.6	1.3	0.6
50°-60°	25.4	0.9	0.4
60°-70°	6.5	0.2	0.1
70°-80°	0.0	0.0	0.0
80°-90°	0.0	0.0	0.0
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°	2622.6	95.5	45.2
0°-40°	2678.9	97.6	46.2
0°-60°	2738.9	99.8	47.2
0°-90°	2745.3	100.0	47.3
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°	2745.3	100.0	47.3

CANDELA DISTRIBUTION:

	0°	Flux
0°	89174	
5°	25501	###
15°	1008	370
25°	481	199
35°	76	56
45°	41	35
55°	29	25
65°	5	6
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	89174
2.5°	61914
5°	25501
7.5°	9820
10°	4151
12.5°	1901
15°	1008
17.5°	641
20°	488
22.5°	463
25°	481
27.5°	459
30°	192
32.5°	98
35°	76
37.5°	66
40°	61
42.5°	52
45°	41
47.5°	38
50°	37
52.5°	34
55°	29
57.5°	23
60°	19
62.5°	11
65°	5
67.5°	1
70°	0
72.5°	0
75°	0
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)