

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: P30066

Luminaire Tested: **ML706830-494H06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30066
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706830-494H06
Description: HALO RECESSED LED RETROFIT MODULE WITH HAZE TRIM
Light Source: HIGH OUPUT LED PACKAGE
LED 14 WATTS
Ballast/Driver: 120V ELECTRONIC DRIVER

Summary

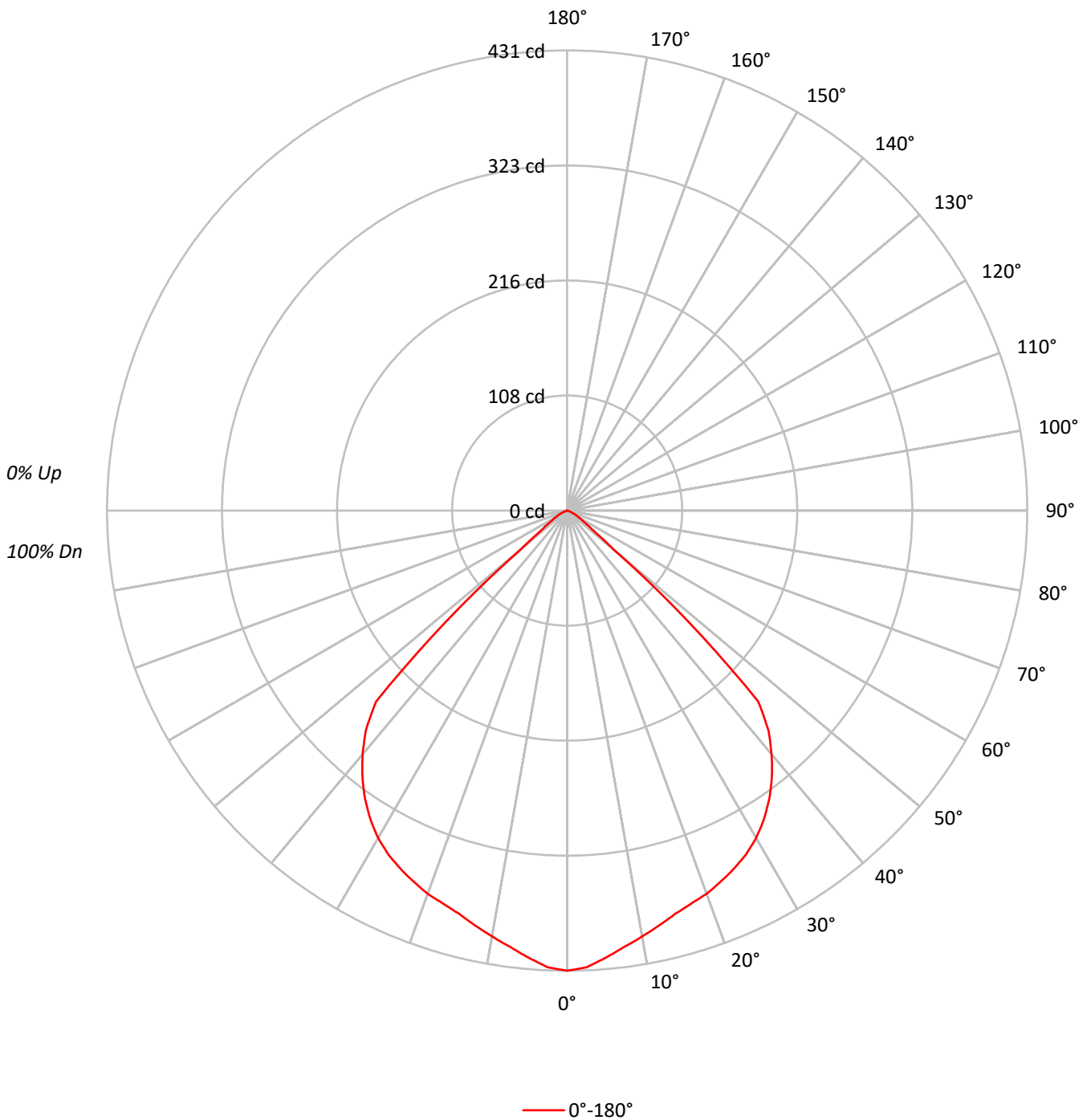
Lumens per Lamp: 720 (1 lamp)
Luminaire Lumens: 721.8 lumens
Efficiency: 100.3%
Efficacy: 51.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.32
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 14.1
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	119	119	119	119	117	117	117	117	111	111	111	107	107	107	102	102	102	100
1	113	110	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83
3	99	91	85	80	97	90	84	80	87	82	79	84	81	77	82	79	76	74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	69	76	72	69	67
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	54
7	76	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	58	51	47	57	51	47	55	50	47	45
9	67	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	41
10	63	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	34024
5°	33282
10°	32464
15°	31955
20°	32091
25°	32228
30°	32268
35°	31802
40°	30709
45°	28245
50°	7000
55°	3028
60°	1895
65°	1308
70°	692
75°	305
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	39.6	5.5	5.5
10°-20°	110.8	15.4	15.4
20°-30°	170.5	23.6	23.7
30°-40°	205.7	28.5	28.6
40°-50°	164.6	22.8	22.9
50°-60°	22.9	3.2	3.2
60°-70°	6.8	0.9	0.9
70°-80°	0.9	0.1	0.1
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°	321.0	44.5	44.6
0°-40°	526.7	73.0	73.1
0°-60°	714.2	98.9	99.2
0°-90°	721.8	100.0	100.3
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°	721.8	100.0	100.3

CANDELA DISTRIBUTION:

	0°	Flux
0°	431	
5°	420	40
15°	391	111
25°	370	171
35°	330	206
45°	253	165
55°	22	23
65°	7	7
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



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CANDELA DISTRIBUTION (FULL):

0°	
0°	431
2.5°	428
5°	420
7.5°	412
10°	405
12.5°	398
15°	391
17.5°	386
20°	382
22.5°	376
25°	370
27.5°	363
30°	354
32.5°	343
35°	330
37.5°	315
40°	298
42.5°	279
45°	253
47.5°	154
50°	57
52.5°	31
55°	22
57.5°	16
60°	12
62.5°	9
65°	7
67.5°	4
70°	3
72.5°	1
75°	1
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0
92.5°	0
95°	0
97.5°	0
100°	0
102.5°	0
105°	0
107.5°	0
110°	0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0
115°	0
117.5°	0
120°	0
122.5°	0
125°	0
127.5°	0
130°	0
132.5°	0
135°	0
137.5°	0
140°	0
142.5°	0
145°	0
147.5°	0
150°	0
152.5°	0
155°	0
157.5°	0
160°	0
162.5°	0
165°	0
167.5°	0
170°	0
172.5°	0
175°	0
177.5°	0
180°	0

(END OF REPORT)