

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: P30050

Luminaire Tested: **ML706835-494SC06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30050
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706835-494SC06
Description: HALO RECESSED LED RETROFIT MODULE WITH TRIM THAT INCLUDES
SPECULAR DESIGN REFLECTOR IN TRIM
Light Source: HIGH OUPUT LED PACKAGE
LED 14 WATTS
Ballast/Driver: 120V ELECTRONIC DRIVER

Summary

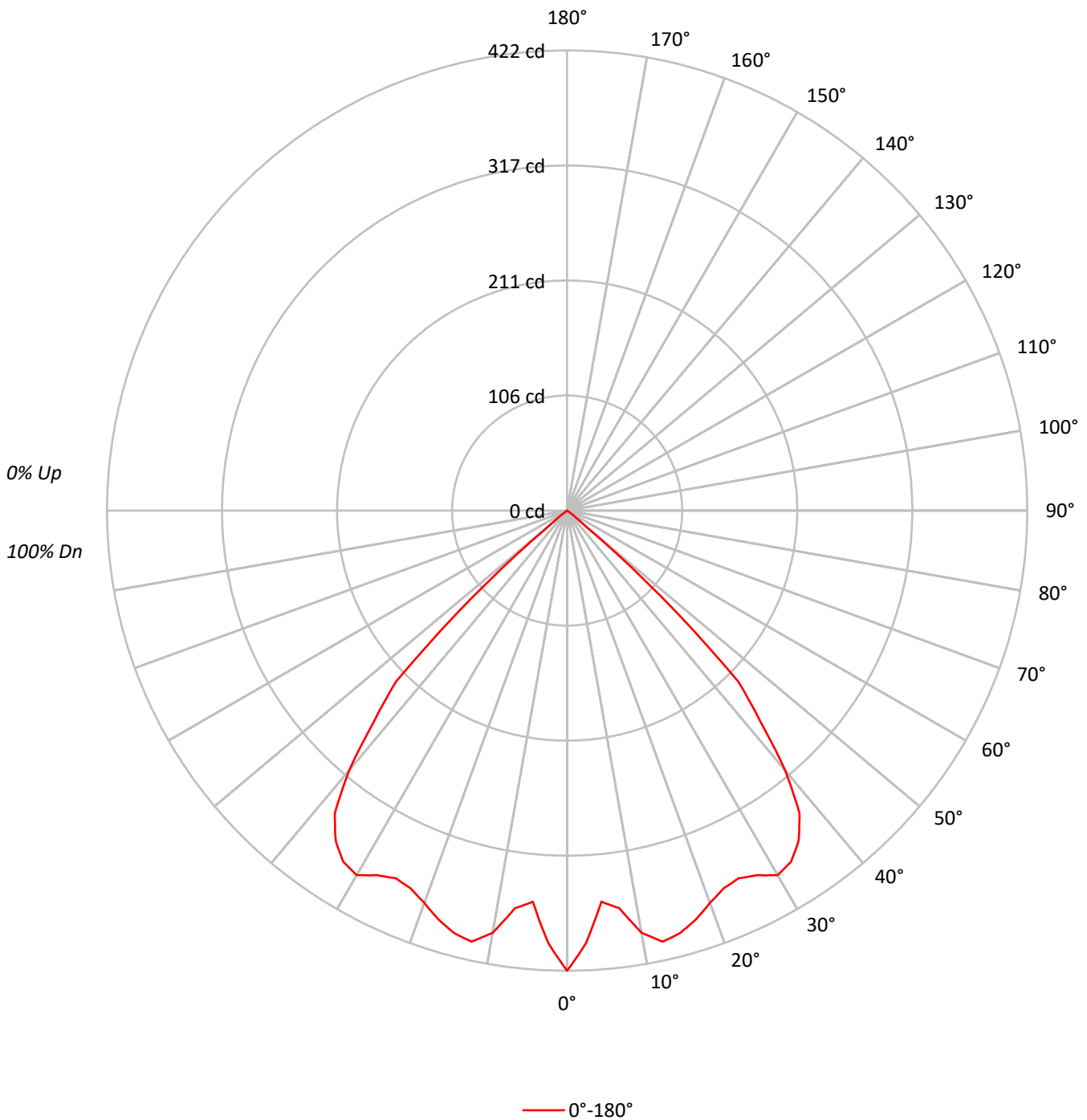
Lumens per Lamp: 699 (1 lamp)
Luminaire Lumens: 699.9 lumens
Efficiency: 100.1%
Efficacy: 50.7 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.29
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 13.8
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	116	116	116	116	111	111	111		107	107	107		102	102	102	100
1	113	110	107	104	110	108	105	103	103	101	100		100	98	97		96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89		92	90	87		90	87	85	83
3	100	92	86	82	97	91	85	81	88	83	80		85	82	79		83	80	77	76
4	93	84	78	73	91	83	77	73	81	76	72		79	74	71		77	73	70	68
5	87	78	71	66	86	77	70	65	75	69	65		73	68	64		71	67	64	62
6	82	71	64	59	80	71	64	59	69	63	59		67	62	58		66	61	58	56
7	77	66	59	54	75	65	58	54	64	58	53		62	57	53		61	56	53	51
8	72	61	54	49	71	60	53	49	59	53	49		58	52	48		57	52	48	47
9	68	56	49	45	66	56	49	45	55	49	44		54	48	44		53	48	44	43
10	64	52	45	41	62	52	45	41	51	45	41		50	45	41		49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	33313
5°	28527
10°	31502
15°	32772
20°	32175
25°	32402
30°	35185
35°	35657
40°	32049
45°	24784
50°	2825
55°	138
60°	158
65°	187
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	36.0	5.1	5.1
10°-20°	112.2	16.0	16.1
20°-30°	174.6	24.9	25.0
30°-40°	226.9	32.4	32.5
40°-50°	145.7	20.8	20.8
50°-60°	3.9	0.6	0.6
60°-70°	0.6	0.1	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°	322.8	46.1	46.2
0°-40°	549.7	78.5	78.6
0°-60°	699.3	99.9	100.0
0°-90°	699.9	100.0	100.1
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°	699.9	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	422	
5°	360	36
15°	401	112
25°	372	175
35°	370	227
45°	222	146
55°	1	4
65°	1	1
75°	0	0
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°	422
2.5°	397
5°	360
7.5°	368
10°	393
12.5°	405
15°	401
17.5°	393
20°	383
22.5°	375
25°	372
27.5°	377
30°	386
32.5°	382
35°	370
37.5°	350
40°	311
42.5°	262
45°	222
47.5°	117
50°	23
52.5°	4
55°	1
57.5°	1
60°	1
62.5°	1
65°	1
67.5°	0
70°	0
72.5°	0
75°	0
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)