

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: P30049

Luminaire Tested: **ML706835-494WB06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30049
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706835-494WB06
Description: HALO RECESSED LED RETROFIT MODULE WITH TRIM THAT INCLUDES
WHITE BAFFLED DESIGN REFLECTOR IN TRIM
Light Source: HIGH OUPUT LED PACKAGE
14 WATTS
Ballast/Driver: 120V ELECTRONIC DRIVER

Summary

Lumens per Lamp: 678 (1 lamp)
Luminaire Lumens: 678.6 lumens
Efficiency: 100.1%
Efficacy: 49.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.41
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

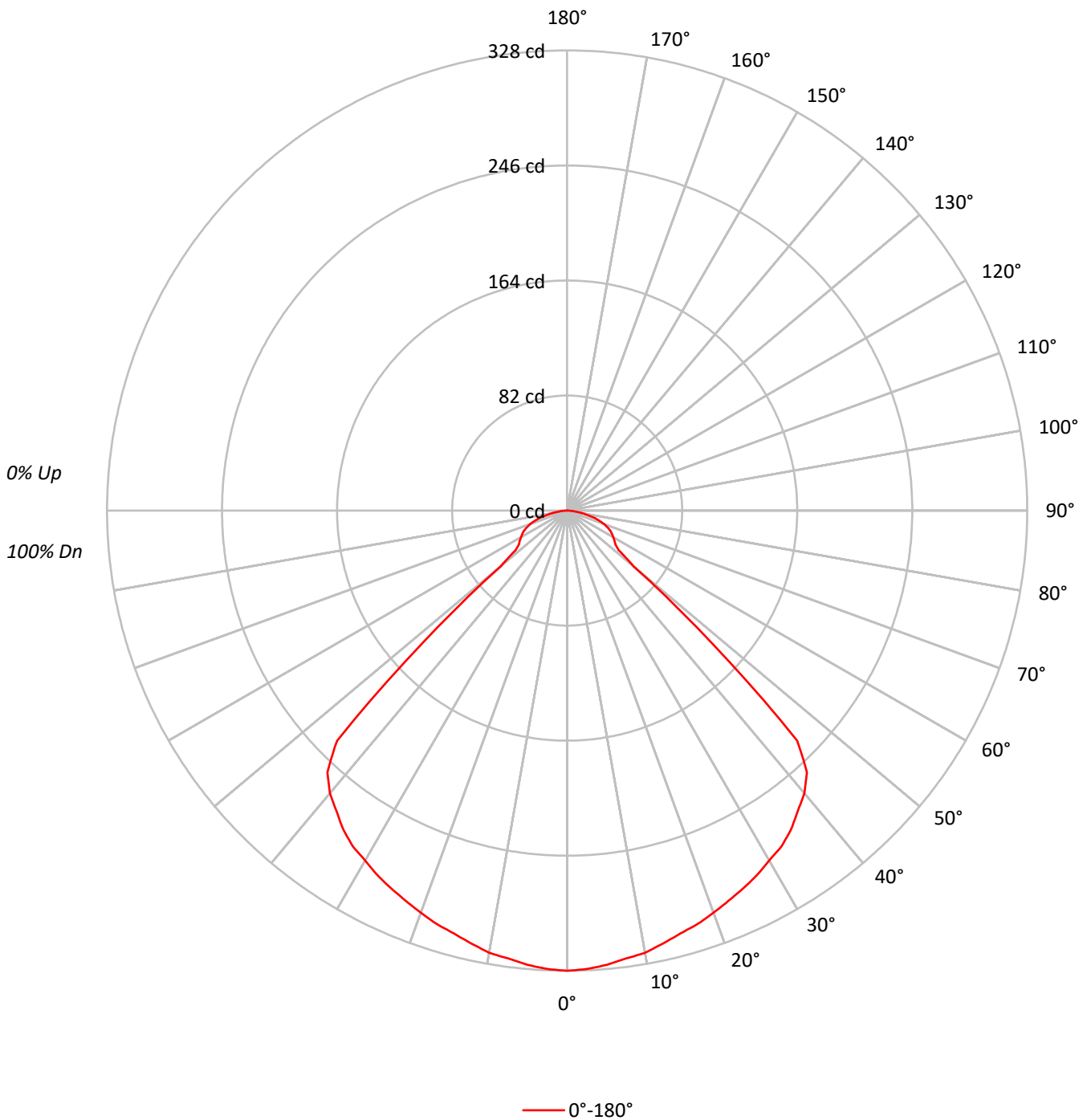
Input Watts (W): 13.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		106	106	106		102	102	102	100
1	111	107	104	101	109	105	102	99	101	98	96		97	95	93		94	92	90	89
2	103	96	91	86	101	95	90	85	91	87	83		88	85	81		85	82	80	78
3	96	87	80	75	93	85	79	74	83	77	73		80	75	72		78	74	70	69
4	89	79	71	66	87	77	70	65	75	69	64		73	68	63		71	66	63	61
5	83	71	64	58	81	70	63	58	68	62	57		67	61	57		65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51		61	55	51		60	54	50	48
7	72	60	52	46	70	59	52	46	58	51	46		56	50	46		55	50	45	44
8	67	55	47	42	66	54	47	42	53	46	42		52	46	41		51	45	41	39
9	63	51	43	38	62	50	43	38	49	42	38		48	42	38		47	42	38	36
10	59	47	40	35	58	46	39	35	45	39	35		45	39	34		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	25893
5°	25754
10°	25651
15°	25498
20°	25622
25°	25869
30°	26252
35°	26791
40°	27102
45°	25900
50°	7614
55°	5780
60°	6000
65°	6351
70°	6463
75°	6100
80°	5001
85°	3623



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	30.8	4.5	4.5
10°-20°	88.3	13.0	13.0
20°-30°	137.2	20.2	20.2
30°-40°	173.6	25.6	25.6
40°-50°	150.3	22.1	22.2
50°-60°	39.8	5.9	5.9
60°-70°	33.2	4.9	4.9
70°-80°	20.7	3.0	3.1
80°-90°	4.8	0.7	0.7
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°	256.4	37.8	37.8
0°-40°	430.0	63.4	63.4
0°-60°	620.0	91.4	91.4
0°-90°	678.6	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°	678.6	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	328	
5°	325	31
15°	312	88
25°	297	137
35°	278	174
45°	232	150
55°	42	40
65°	34	33
75°	20	21
85°	4	5
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°	328
2.5°	327
5°	325
7.5°	322
10°	320
12.5°	316
15°	312
17.5°	309
20°	305
22.5°	301
25°	297
27.5°	293
30°	288
32.5°	284
35°	278
37.5°	270
40°	263
42.5°	253
45°	232
47.5°	140
50°	62
52.5°	46
55°	42
57.5°	40
60°	38
62.5°	36
65°	34
67.5°	31
70°	28
72.5°	24
75°	20
77.5°	15
80°	11
82.5°	7
85°	4
87.5°	1
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)