

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: P30074

Luminaire Tested: **ML706840-494WB06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30074
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706840-494WB06
Description: HALO RECESSED LED RETROFIT MODULE WITH TRIM THAT INCLUDES
WHITE BAFFLED DESIGN REFLECTOR IN TRIM
Light Source: HIGH OUPUT LED PACKAGE
LED 14 WATTS
Ballast/Driver: 120V ELECTRONIC DRIVER

Summary

Lumens per Lamp: 718 (1 lamp)
Luminaire Lumens: 719.3 lumens
Efficiency: 100.2%
Efficacy: 52.1 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

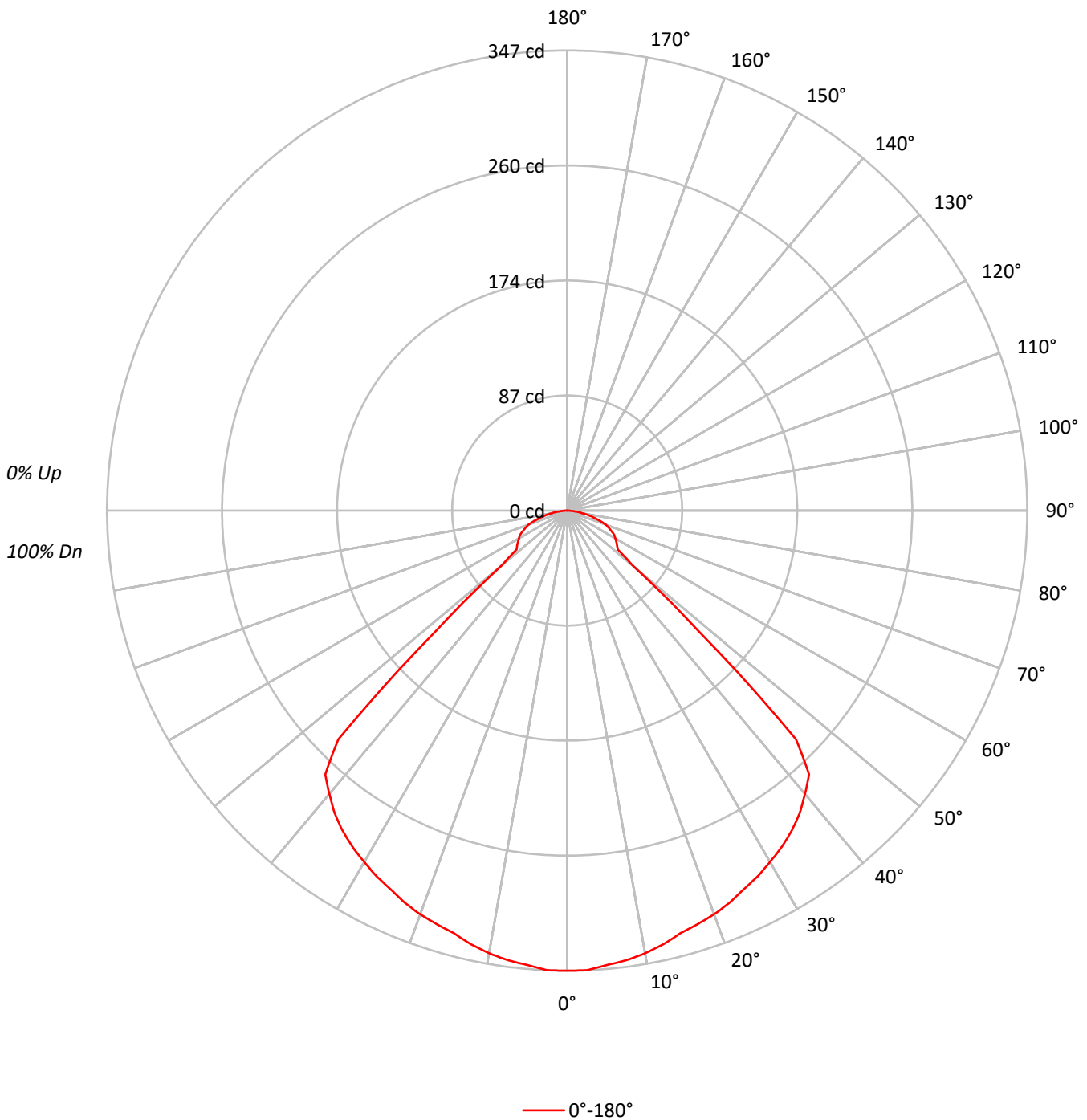
Input Watts (W): 13.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		107	107	107		102	102	102	100
1	111	107	104	101	109	105	102	99	101	98	96		97	95	93		94	92	91	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	68
4	89	79	71	65	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	57	51	46		56	50	46		55	49	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°	27392
5°	27259
10°	27174
15°	26969
20°	27218
25°	27437
30°	27893
35°	28429
40°	28751
45°	27240
50°	7860
55°	6331
60°	6631
65°	6911
70°	7155
75°	6405
80°	5455
85°	3623



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	32.7	4.5	4.6
10°-20°	93.6	13.0	13.0
20°-30°	145.7	20.3	20.3
30°-40°	184.4	25.6	25.7
40°-50°	156.0	21.7	21.7
50°-60°	42.7	5.9	5.9
60°-70°	36.5	5.1	5.1
70°-80°	22.5	3.1	3.1
80°-90°	5.2	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°	271.9	37.8	37.9
0°-40°	456.4	63.5	63.6
0°-60°	655.1	91.1	91.2
0°-90°	719.3	100.0	100.2
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°	719.3	100.0	100.2

CANDELA DISTRIBUTION:

	0°	Flux
0°	347	
5°	344	33
15°	330	94
25°	315	146
35°	295	184
45°	244	156
55°	46	43
65°	37	37
75°	21	23
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°	347
2.5°	347
5°	344
7.5°	342
10°	339
12.5°	335
15°	330
17.5°	327
20°	324
22.5°	320
25°	315
27.5°	311
30°	306
32.5°	301
35°	295
37.5°	288
40°	279
42.5°	270
45°	244
47.5°	133
50°	64
52.5°	48
55°	46
57.5°	44
60°	42
62.5°	40
65°	37
67.5°	34
70°	31
72.5°	26
75°	21
77.5°	17
80°	12
82.5°	8
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)