

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: P30062

Luminaire Tested: **ML706830-494WB06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30062
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706830-494WB06
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: 687 (1 lamp)
Luminaire Lumens: 688.0 lumens
Efficiency: 100.1%
Efficacy: 49.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.42
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

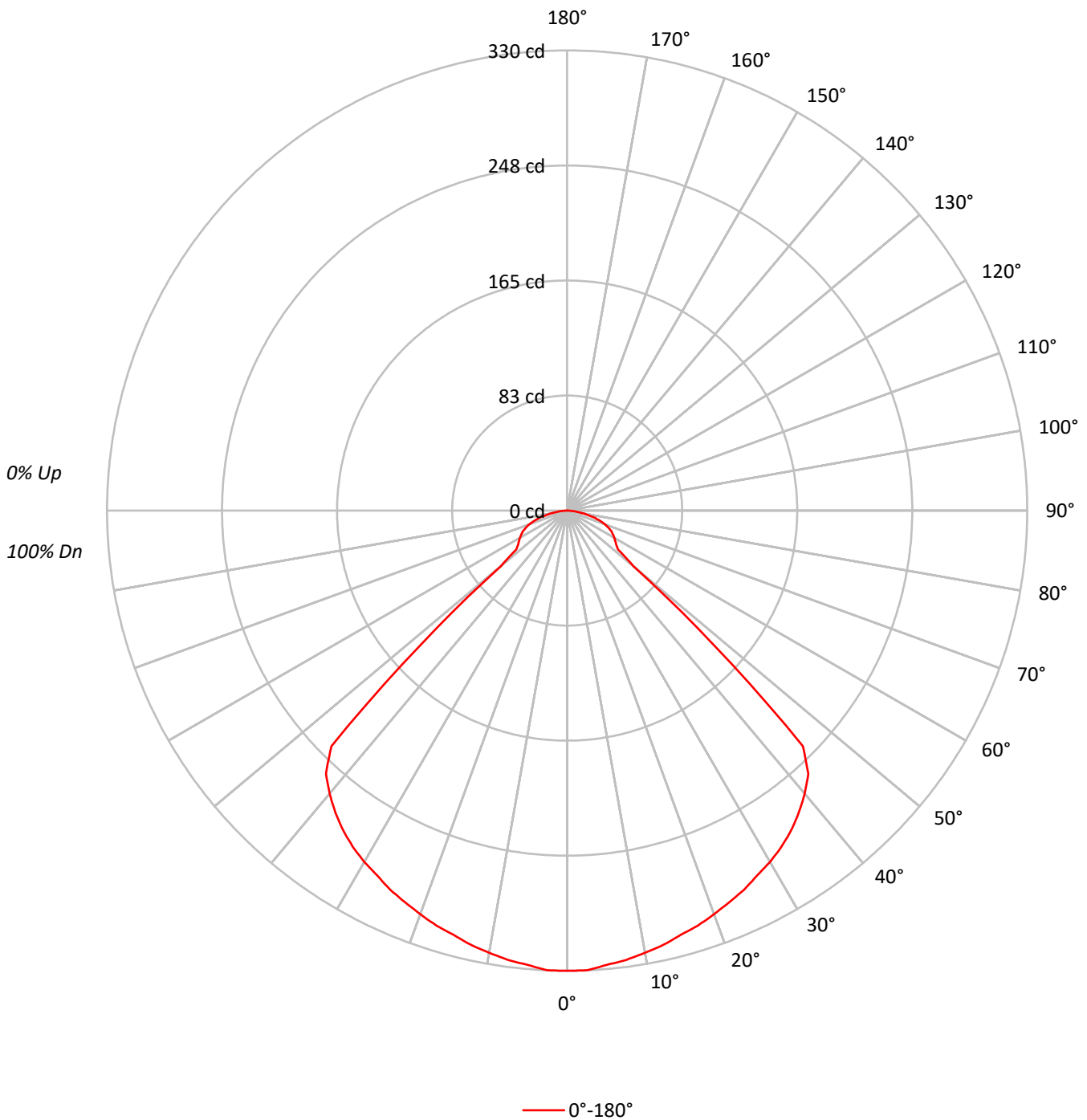
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	90	88
2	103	96	91	86	101	95	89	85	91	87	83		88	84	81		85	82	80	78
3	96	87	80	75	93	85	79	74	82	77	73		80	75	72		77	74	70	68
4	89	79	71	65	87	77	70	65	75	69	64		73	68	63		71	66	63	61
5	82	71	64	58	81	70	63	58	68	62	57		66	61	56		65	60	56	54
6	77	65	57	52	75	64	57	51	63	56	51		61	55	51		59	54	50	48
7	72	60	52	46	70	59	51	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	61	50	43	38	49	42	38		48	42	38		47	41	37	36
10	59	47	40	35	58	46	39	35	45	39	35		44	39	34		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	26051
5°	25912
10°	25811
15°	25744
20°	25874
25°	26130
30°	26526
35°	26983
40°	27308
45°	26682
50°	7614
55°	5918
60°	6157
65°	6538
70°	6693
75°	6405
80°	5455
85°	3623



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	31.1	4.5	4.5
10°-20°	89.2	13.0	13.0
20°-30°	138.5	20.1	20.2
30°-40°	175.1	25.5	25.5
40°-50°	152.7	22.2	22.2
50°-60°	40.3	5.9	5.9
60°-70°	34.2	5.0	5.0
70°-80°	21.8	3.2	3.2
80°-90°	5.2	0.8	0.8
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°	258.7	37.6	37.7
0°-40°	433.8	63.1	63.1
0°-60°	626.9	91.1	91.2
0°-90°	688.0	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°	688.0	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	330	
5°	327	31
15°	315	89
25°	300	138
35°	280	175
45°	239	153
55°	43	40
65°	35	34
75°	21	22
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°	330
2.5°	330
5°	327
7.5°	325
10°	322
12.5°	319
15°	315
17.5°	312
20°	308
22.5°	304
25°	300
27.5°	295
30°	291
32.5°	286
35°	280
37.5°	273
40°	265
42.5°	256
45°	239
47.5°	142
50°	62
52.5°	46
55°	43
57.5°	41
60°	39
62.5°	37
65°	35
67.5°	32
70°	29
72.5°	25
75°	21
77.5°	16
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)