

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: P30078

Luminaire Tested: **ML706840-494H06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30078
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706840-494H06
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: 758 (1 lamp)
Luminaire Lumens: 760.2 lumens
Efficiency: 100.3%
Efficacy: 55.1 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

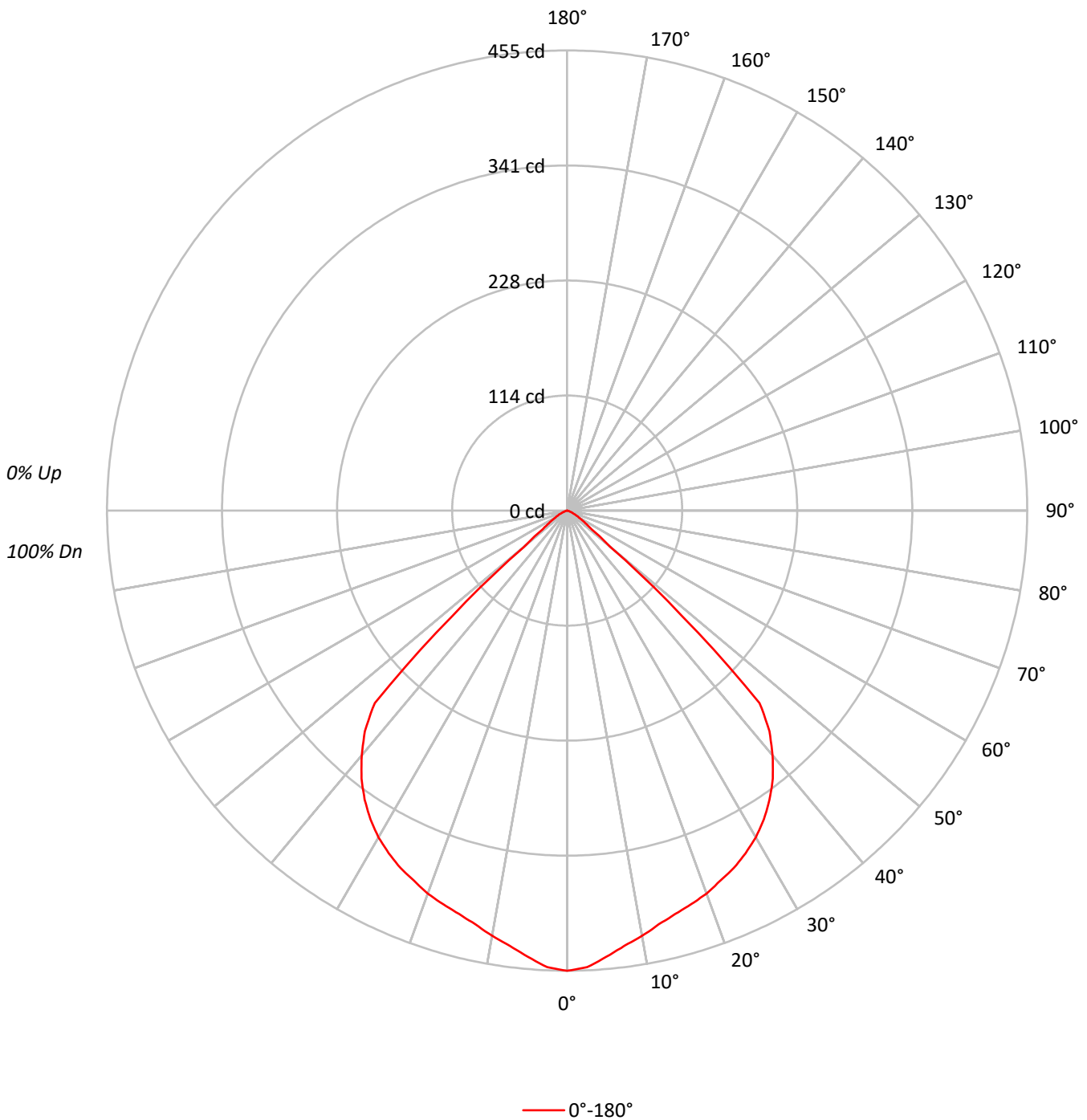
Input Watts (W): 13.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	81	97	90	84	80	87	82	79		85	81	77		82	79	76	74
4	92	83	77	72	91	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	58	68	62	57		66	61	57		65	60	56	55
7	76	65	57	52	74	64	57	52	62	56	52		61	56	51		60	55	51	49
8	71	60	52	47	70	59	52	47	58	52	47		57	51	47		56	50	47	45
9	67	55	48	43	65	55	48	43	54	47	43		53	47	43		52	46	43	41
10	63	51	44	40	62	51	44	40	50	44	40		49	43	39		48	43	39	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	35918
5°	35104
10°	34228
15°	33753
20°	33855
25°	33970
30°	34000
35°	33633
40°	32564
45°	30031
50°	6877
55°	3165
60°	2052
65°	1308
70°	692
75°	305
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	41.8	5.5	5.5
10°-20°	116.9	15.4	15.4
20°-30°	179.7	23.6	23.7
30°-40°	217.5	28.6	28.7
40°-50°	172.4	22.7	22.7
50°-60°	23.3	3.1	3.1
60°-70°	7.4	1.0	1.0
70°-80°	1.2	0.2	0.2
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°	338.4	44.5	44.6
0°-40°	555.9	73.1	73.3
0°-60°	751.6	98.9	99.2
0°-90°	760.2	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°	760.2	100.0	100.3

CANDELA DISTRIBUTION:

	0°	Flux
0°	455	
5°	443	42
15°	413	117
25°	390	180
35°	349	218
45°	269	172
55°	23	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°	455
2.5°	452
5°	443
7.5°	434
10°	427
12.5°	419
15°	413
17.5°	408
20°	403
22.5°	396
25°	390
27.5°	382
30°	373
32.5°	362
35°	349
37.5°	334
40°	316
42.5°	296
45°	269
47.5°	154
50°	56
52.5°	31
55°	23
57.5°	17
60°	13
62.5°	10
65°	7
67.5°	5
70°	3
72.5°	2
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)