

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: P30090

Luminaire Tested: **ML706827-494H06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30090
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706827-494H06
Description: HALO RECESSED LED RETROFIT MODULE WITH HAZE TRIM
Light Source: HIGH OUPUT LED PACKAGE
LED 14 WATTS
Ballast/Driver: 120V ELECTRONIC DRIVER

Summary

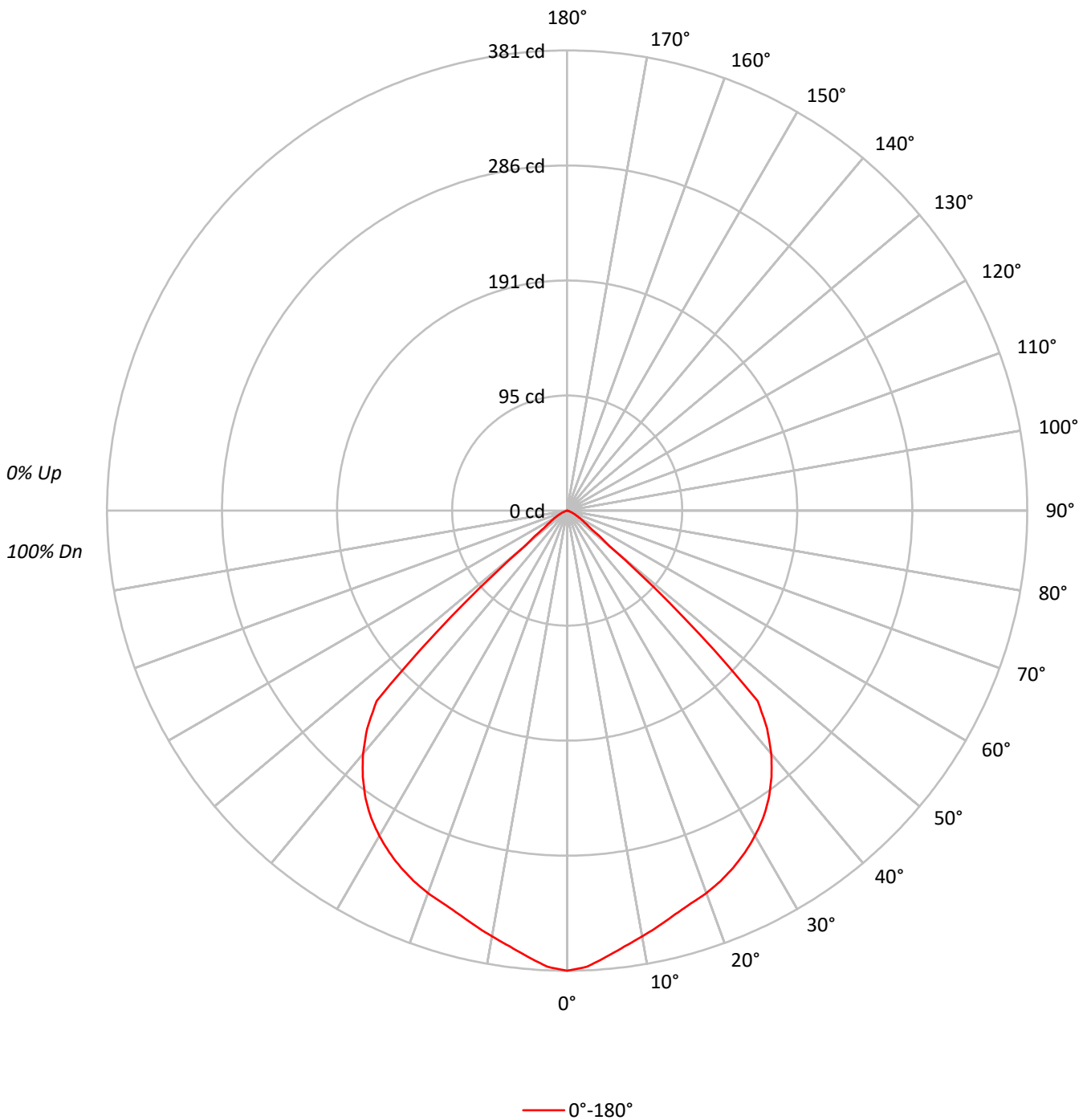
Lumens per Lamp: 633 (1 lamp)
Luminaire Lumens: 634.4 lumens
Efficiency: 100.2%
Efficacy: 46.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.31
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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	109	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		84	81	77		82	79	76	74
4	92	83	77	72	90	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	47	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°	30076
5°	29399
10°	28697
15°	28277
20°	28310
25°	28395
30°	28349
35°	28043
40°	27102
45°	24896
50°	5649
55°	2615
60°	1737
65°	1121
70°	462
75°	305
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	35.0	5.5	5.5
10°-20°	97.9	15.4	15.5
20°-30°	150.2	23.7	23.7
30°-40°	181.3	28.6	28.6
40°-50°	143.6	22.6	22.7
50°-60°	19.4	3.1	3.1
60°-70°	6.0	0.9	1.0
70°-80°	1.1	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°	283.1	44.6	44.7
0°-40°	464.4	73.2	73.4
0°-60°	627.3	98.9	99.1
0°-90°	634.4	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°	634.4	100.0	100.2

CANDELA DISTRIBUTION:

	0°	Flux
0°	381	
5°	371	35
15°	346	98
25°	326	150
35°	291	181
45°	223	144
55°	19	19
65°	6	6
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°	381
2.5°	378
5°	371
7.5°	364
10°	358
12.5°	352
15°	346
17.5°	341
20°	337
22.5°	332
25°	326
27.5°	319
30°	311
32.5°	302
35°	291
37.5°	278
40°	263
42.5°	245
45°	223
47.5°	131
50°	46
52.5°	26
55°	19
57.5°	14
60°	11
62.5°	8
65°	6
67.5°	4
70°	2
72.5°	1
75°	1
77.5°	1
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)