

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: P30064

Luminaire Tested: **ML706830-494P06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30064
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706830-494P06
Description: HALO RECESSED LED RETROFIT MODULE WITH TRIM THAT INCLUDES
WHITE PAINTED REFLECTOR
Light Source: HIGH OUPUT LED PACKAGE
LED 14 WATTS
Ballast/Driver: 120V ELECTRONIC DRIVER

Summary

Lumens per Lamp: 693 (1 lamp)
Luminaire Lumens: 693.9 lumens
Efficiency: 100.1%
Efficacy: 49.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.41
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

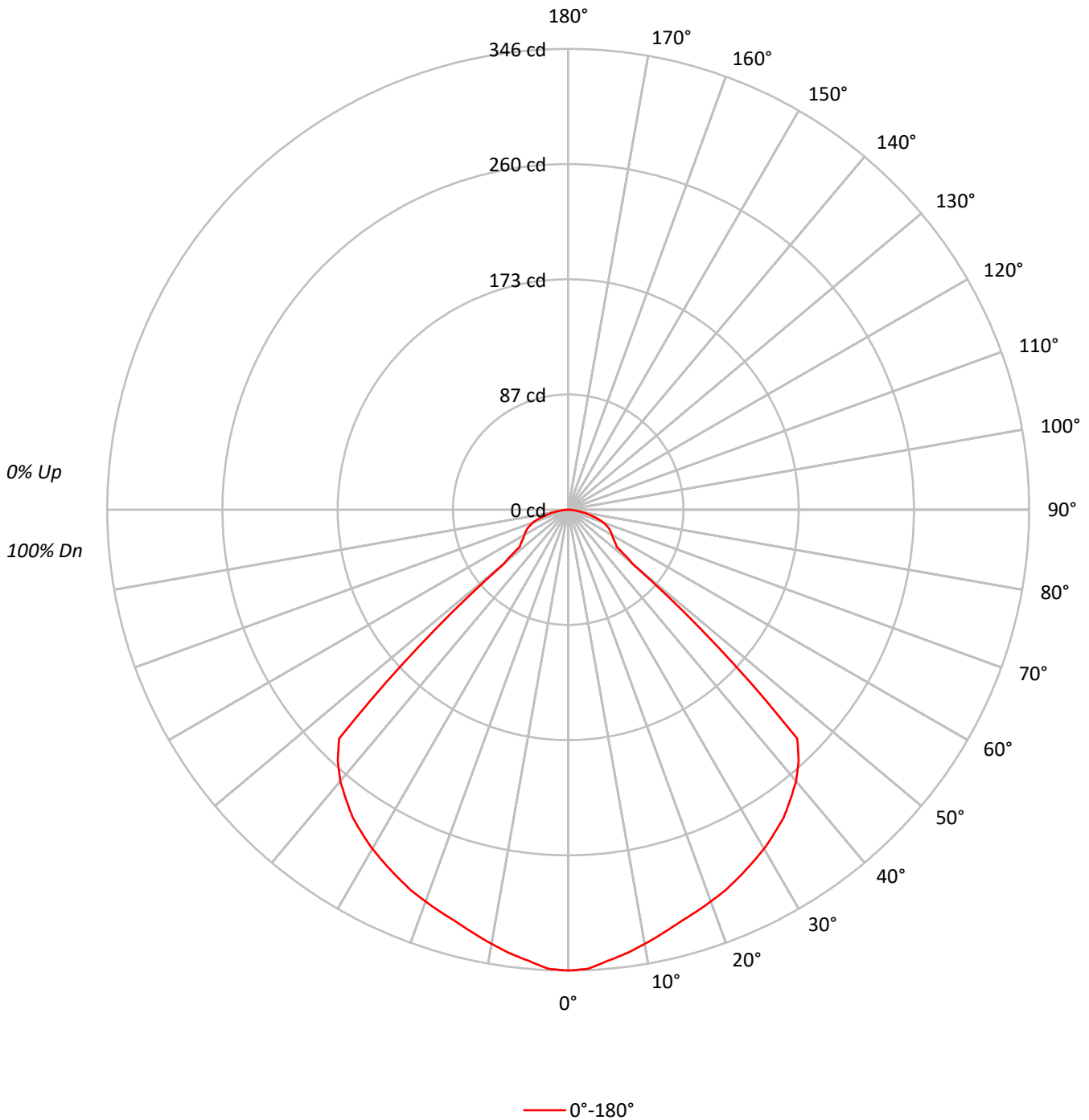
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: ML706830-494P06

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	99	96	97	95	93	94	92	91	89
2	103	97	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78
3	96	87	80	75	94	86	79	74	83	77	73	80	76	72	78	74	71	69
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	46	44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	27314
5°	26942
10°	26533
15°	26234
20°	26294
25°	26479
30°	26799
35°	27176
40°	27411
45°	27128
50°	7737
55°	5918
60°	6000
65°	6351
70°	6463
75°	5795
80°	5001
85°	3623



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	32.2	4.6	4.6
10°-20°	90.9	13.1	13.1
20°-30°	140.4	20.2	20.3
30°-40°	176.2	25.4	25.4
40°-50°	155.7	22.4	22.5
50°-60°	40.1	5.8	5.8
60°-70°	33.2	4.8	4.8
70°-80°	20.4	2.9	2.9
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°	263.5	38.0	38.0
0°-40°	439.6	63.4	63.4
0°-60°	635.5	91.6	91.7
0°-90°	693.9	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°	693.9	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	346	
5°	340	32
15°	321	91
25°	304	140
35°	282	176
45°	243	156
55°	43	40
65°	34	33
75°	19	20
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	346
2.5°	345
5°	340
7.5°	336
10°	331
12.5°	326
15°	321
17.5°	317
20°	313
22.5°	309
25°	304
27.5°	299
30°	294
32.5°	288
35°	282
37.5°	274
40°	266
42.5°	256
45°	243
47.5°	152
50°	63
52.5°	46
55°	43
57.5°	40
60°	38
62.5°	36
65°	34
67.5°	31
70°	28
72.5°	24
75°	19
77.5°	15
80°	11
82.5°	7
85°	4
87.5°	1
90°	0

(END OF REPORT)