

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: P30073

Luminaire Tested: **ML706840-494SC06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30073
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706840-494SC06
Description: HALO RECESSED LED RETROFIT MODULE WITH SPECULAR REFLECTOR
Light Source: HIGH OUPUT LED PACKAGE
LED 14 WATTS
Ballast/Driver: 120V ELECTRONIC DRIVER

Summary

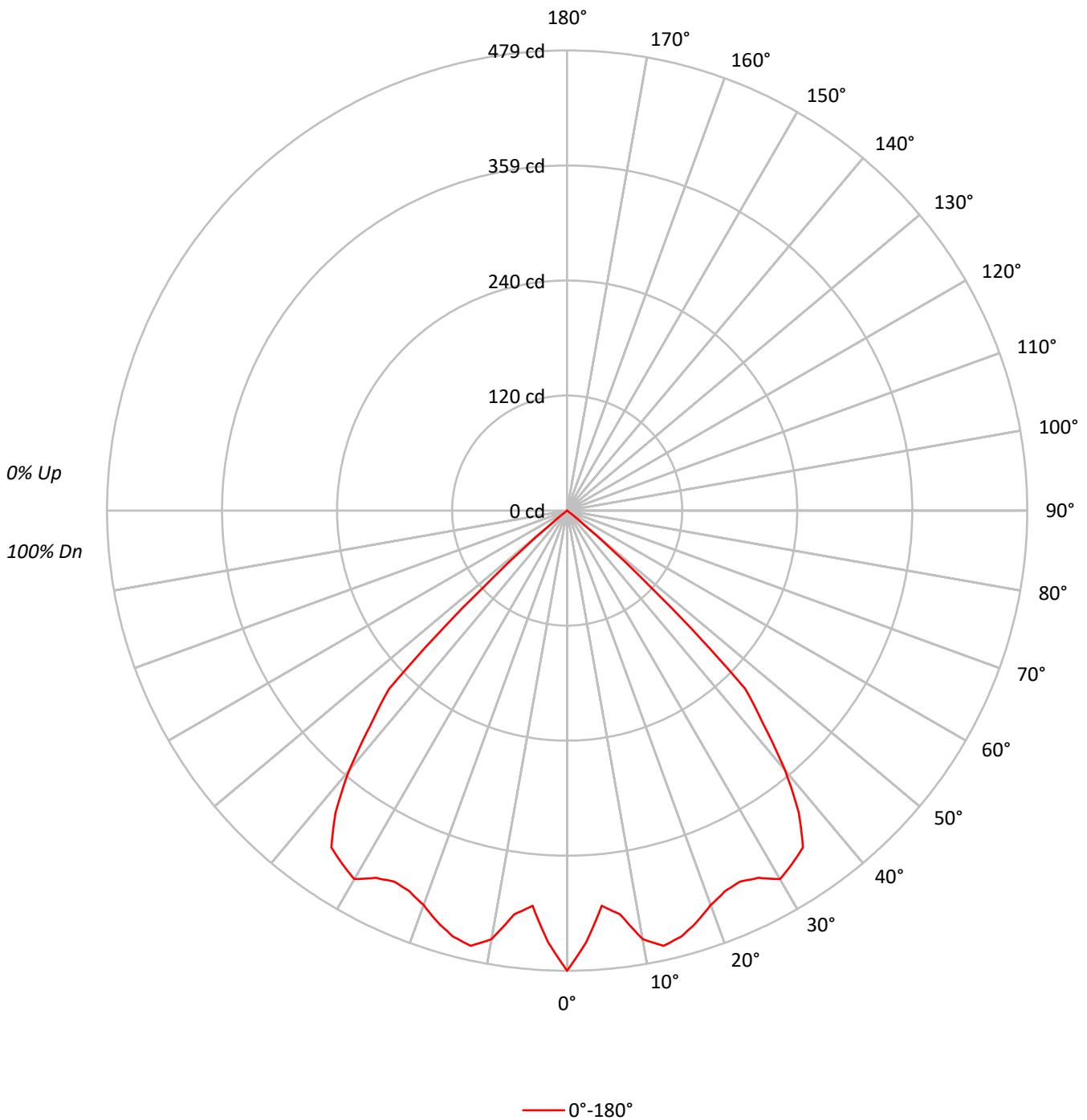
Lumens per Lamp: 797 (1 lamp)
Luminaire Lumens: 798.0 lumens
Efficiency: 100.1%
Efficacy: 57.8 lumens/watt
Spacing Criteria (0/90/45): 1.38 / 1.38 / 1.3
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P30073
CATALOG NUMBER: ML706840-494SC06

Luminous Intensity Polar Plot





TEST NUMBER: P30073

CATALOG NUMBER: ML706840-494SC06

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	113	110	107	104	110	108	105	103	103	101	100		100	98	97		96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89		93	90	87		90	87	85	84
3	100	92	86	82	98	91	85	81	88	84	80		86	82	79		83	80	77	76
4	93	85	78	73	91	83	77	73	81	76	72		79	75	71		77	73	70	68
5	87	78	71	66	86	77	70	66	75	69	65		73	68	64		71	67	64	62
6	82	71	64	59	80	71	64	59	69	63	59		67	62	58		66	62	58	56
7	77	66	59	54	75	65	58	54	64	58	53		62	57	53		61	56	53	51
8	72	61	54	49	71	60	54	49	59	53	49		58	52	48		57	52	48	47
9	68	56	49	45	66	56	49	45	55	49	45		54	48	44		53	48	44	43
10	64	52	46	41	63	52	45	41	51	45	41		50	45	41		49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	37813
5°	32727
10°	36312
15°	37512
20°	36711
25°	37105
30°	40381
35°	41246
40°	36377
45°	29250
50°	2825
55°	138
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P30073

CATALOG NUMBER: ML706840-494SC06

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	41.3	5.2	5.2
10°-20°	128.5	16.1	16.1
20°-30°	199.8	25.0	25.1
30°-40°	259.3	32.5	32.5
40°-50°	165.6	20.8	20.8
50°-60°	3.6	0.4	0.4
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
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°	369.5	46.3	46.4
0°-40°	628.9	78.8	78.9
0°-60°	798.0	100.0	100.1
0°-90°	798.0	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°	798.0	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	479	
5°	413	41
15°	459	128
25°	426	200
35°	428	259
45°	262	166
55°	1	4
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P30073

CATALOG NUMBER: ML706840-494SC06

CANDELA DISTRIBUTION (FULL):

	0°
0°	479
2.5°	450
5°	413
7.5°	424
10°	453
12.5°	464
15°	459
17.5°	449
20°	437
22.5°	429
25°	426
27.5°	431
30°	443
32.5°	436
35°	428
37.5°	396
40°	353
42.5°	303
45°	262
47.5°	121
50°	23
52.5°	3
55°	1
57.5°	1
60°	0
62.5°	0
65°	0
67.5°	0
70°	0
72.5°	0
75°	0
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)