

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: P30076

Luminaire Tested: **ML706840-494P06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30076
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706840-494P06
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: 723 (1 lamp)
Luminaire Lumens: 724.4 lumens
Efficiency: 100.2%
Efficacy: 52.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.41
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

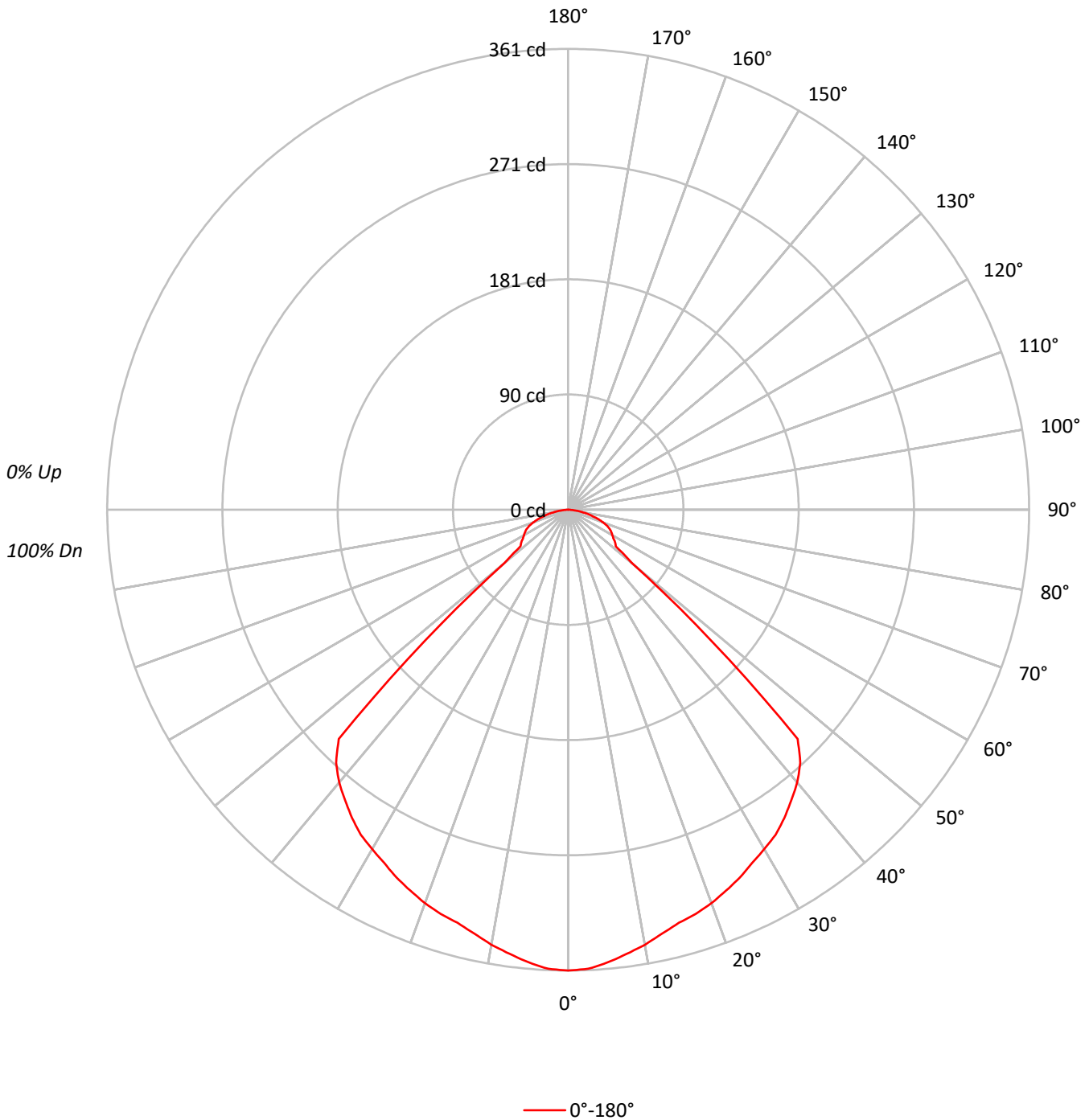
Input Watts (W): 13.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	116	116	116	111	111	111		107	107	107		102	102	102	100
1	111	108	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	84		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	65		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	65	57	52	63	56	51		61	55	51		60	55	51	49
7	72	60	52	47	70	59	52	47	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	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	28498
5°	28210
10°	27735
15°	27378
20°	27554
25°	27698
30°	27984
35°	28429
40°	28751
45°	28356
50°	7983
55°	6193
60°	6315
65°	6724
70°	6693
75°	6100
80°	5001
85°	3623



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	33.7	4.6	4.7
10°-20°	95.0	13.1	13.1
20°-30°	146.7	20.3	20.3
30°-40°	184.5	25.5	25.5
40°-50°	161.7	22.3	22.4
50°-60°	41.7	5.8	5.8
60°-70°	35.0	4.8	4.8
70°-80°	21.4	2.9	3.0
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°	275.4	38.0	38.1
0°-40°	459.9	63.5	63.6
0°-60°	663.2	91.6	91.7
0°-90°	724.4	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°	724.4	100.0	100.2

CANDELA DISTRIBUTION:

	0°	Flux
0°	361	
5°	356	34
15°	335	95
25°	318	147
35°	295	184
45°	254	162
55°	45	42
65°	36	35
75°	20	21
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	361
2.5°	360
5°	356
7.5°	351
10°	346
12.5°	340
15°	335
17.5°	332
20°	328
22.5°	323
25°	318
27.5°	312
30°	307
32.5°	302
35°	295
37.5°	287
40°	279
42.5°	269
45°	254
47.5°	152
50°	65
52.5°	47
55°	45
57.5°	42
60°	40
62.5°	38
65°	36
67.5°	33
70°	29
72.5°	25
75°	20
77.5°	16
80°	11
82.5°	7
85°	4
87.5°	1
90°	0

(END OF REPORT)