

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: P30048

Luminaire Tested: **ML706835-493SNS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30048
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706835-493SNS06
Description: HALO RECESSED LED RETROFIT MODULE WITH TRIM THAT INCLUDES SPECULAR UPPER REFLECTOR, SATIN NICKLE LOWER REFLECTOR AND SOFT FOCUS LENS IN BETWEEN REFLECTORS
Light Source: HIGH OUPUT LED PACKAGE
14 WATTS
Ballast/Driver: 120V ELECTRONIC DRIVER

Summary

Lumens per Lamp: 551 (1 lamp)
Luminaire Lumens: 553.1 lumens
Efficiency: 100.4%
Efficacy: 40.1 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 0.71 / 0.94
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

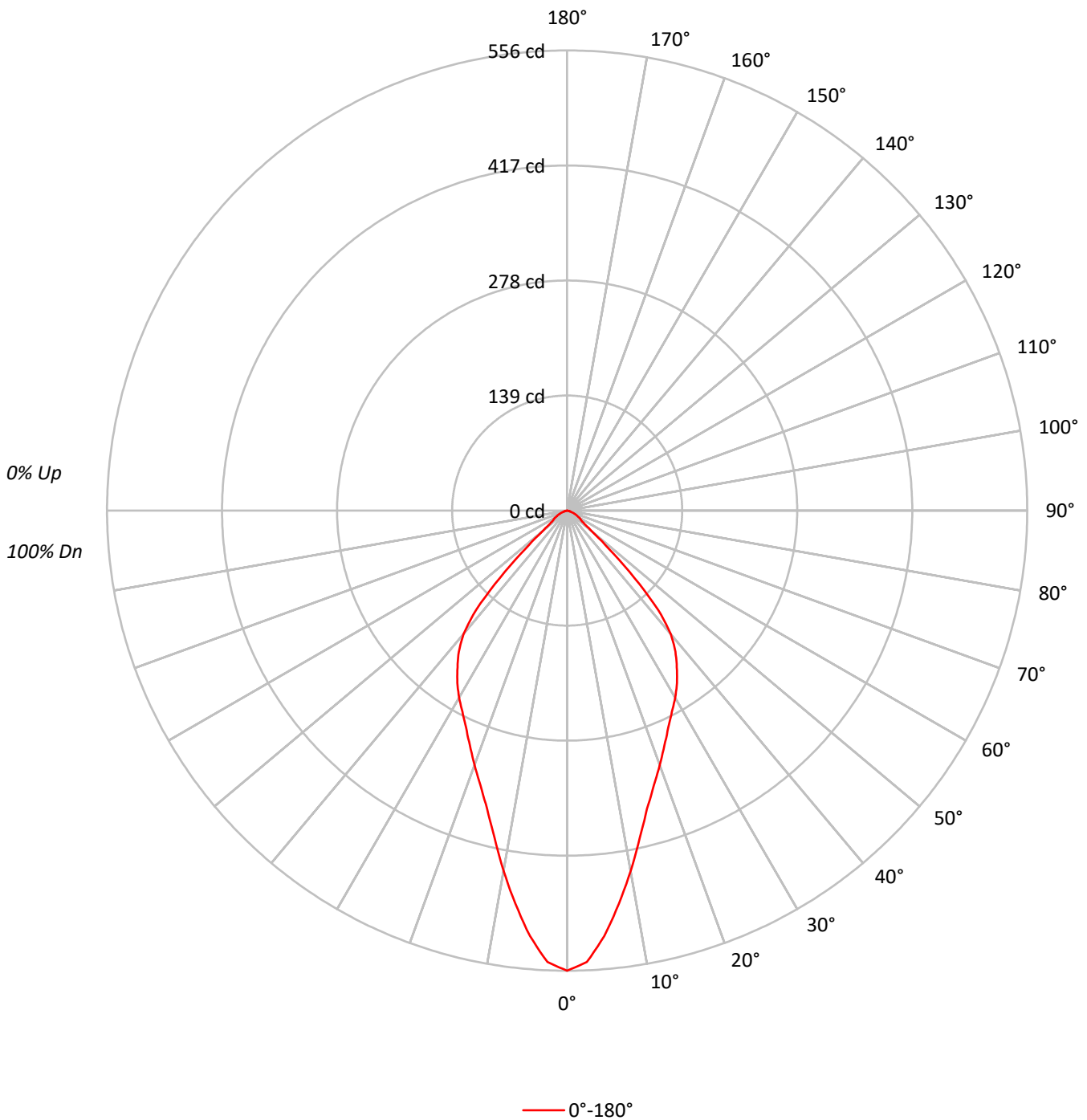
Input Watts (W): 13.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P30048

CATALOG NUMBER: ML706835-493SNS06

Luminous Intensity Polar Plot





TEST NUMBER: P30048

CATALOG NUMBER: ML706835-493SNS06

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	112	112	112		107	107	107		102	102	102	100
1	113	110	107	104	110	108	105	103	104	101	100		100	98	97		96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89		92	90	87		90	87	85	83
3	100	92	87	82	98	91	86	81	88	84	80		86	82	79		83	80	77	76
4	94	85	78	74	92	84	78	73	81	76	72		79	75	71		77	74	71	69
5	88	78	72	67	86	77	71	66	75	70	66		74	69	65		72	68	64	63
6	83	72	66	61	81	72	65	60	70	64	60		69	63	60		67	63	59	57
7	78	67	60	56	76	67	60	55	65	59	55		64	59	55		63	58	54	53
8	73	63	56	51	72	62	55	51	61	55	51		60	54	50		59	54	50	49
9	69	58	52	47	68	58	51	47	57	51	47		56	51	47		55	50	47	45
10	66	55	48	44	65	54	48	44	53	48	44		53	47	43		52	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	60749
5°	56594
10°	49038
15°	42192
20°	38021
25°	34841
30°	32929
35°	30811
40°	27813
45°	17770
50°	6629
55°	4000
60°	3496
65°	2844
70°	1917
75°	1266
80°	629
85°	0



TEST NUMBER: P30048

CATALOG NUMBER: ML706835-493SNS06

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	46.9	8.5	8.5
10°-20°	105.4	19.1	19.1
20°-30°	133.8	24.2	24.3
30°-40°	143.8	26.0	26.1
40°-50°	87.8	15.9	15.9
50°-60°	20.8	3.8	3.8
60°-70°	11.1	2.0	2.0
70°-80°	3.3	0.6	0.6
80°-90°	0.1	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°	286.1	51.7	51.9
0°-40°	429.9	77.7	78.0
0°-60°	538.6	97.4	97.7
0°-90°	553.1	100.0	100.4
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°	553.1	100.0	100.4

CANDELA DISTRIBUTION:

	0°	Flux
0°	556	
5°	516	47
15°	373	105
25°	289	134
35°	231	144
45°	115	88
55°	21	21
65°	11	11
75°	3	3
85°	0	0
90°	0	



TEST NUMBER: P30048

CATALOG NUMBER: ML706835-493SNS06

CANDELA DISTRIBUTION (FULL):

	0°
0°	556
2.5°	546
5°	516
7.5°	479
10°	442
12.5°	405
15°	373
17.5°	348
20°	327
22.5°	307
25°	289
27.5°	274
30°	261
32.5°	247
35°	231
37.5°	215
40°	195
42.5°	163
45°	115
47.5°	68
50°	39
52.5°	26
55°	21
57.5°	19
60°	16
62.5°	14
65°	11
67.5°	9
70°	6
72.5°	4
75°	3
77.5°	2
80°	1
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)