

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: P30071

Luminaire Tested: **ML706840-493WBS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30071
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706840-493WBS06
Description: HALO RECESSED LED RETROFIT MODULE WITH TRIM THAT INCLUDES SHOWER RATED,SOLITE LENS,WHITE BAFFLED DESIGN REFLECTOR IN TRIM
Light Source: HIGH OUPUT LED PACKAGE
LED 14 WATTS
Ballast/Driver: 120V ELECTRONIC DRIVER

Summary

Lumens per Lamp: 712 (1 lamp)
Luminaire Lumens: 715.0 lumens
Efficiency: 100.4%
Efficacy: 51.8 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.62 / 0.89
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

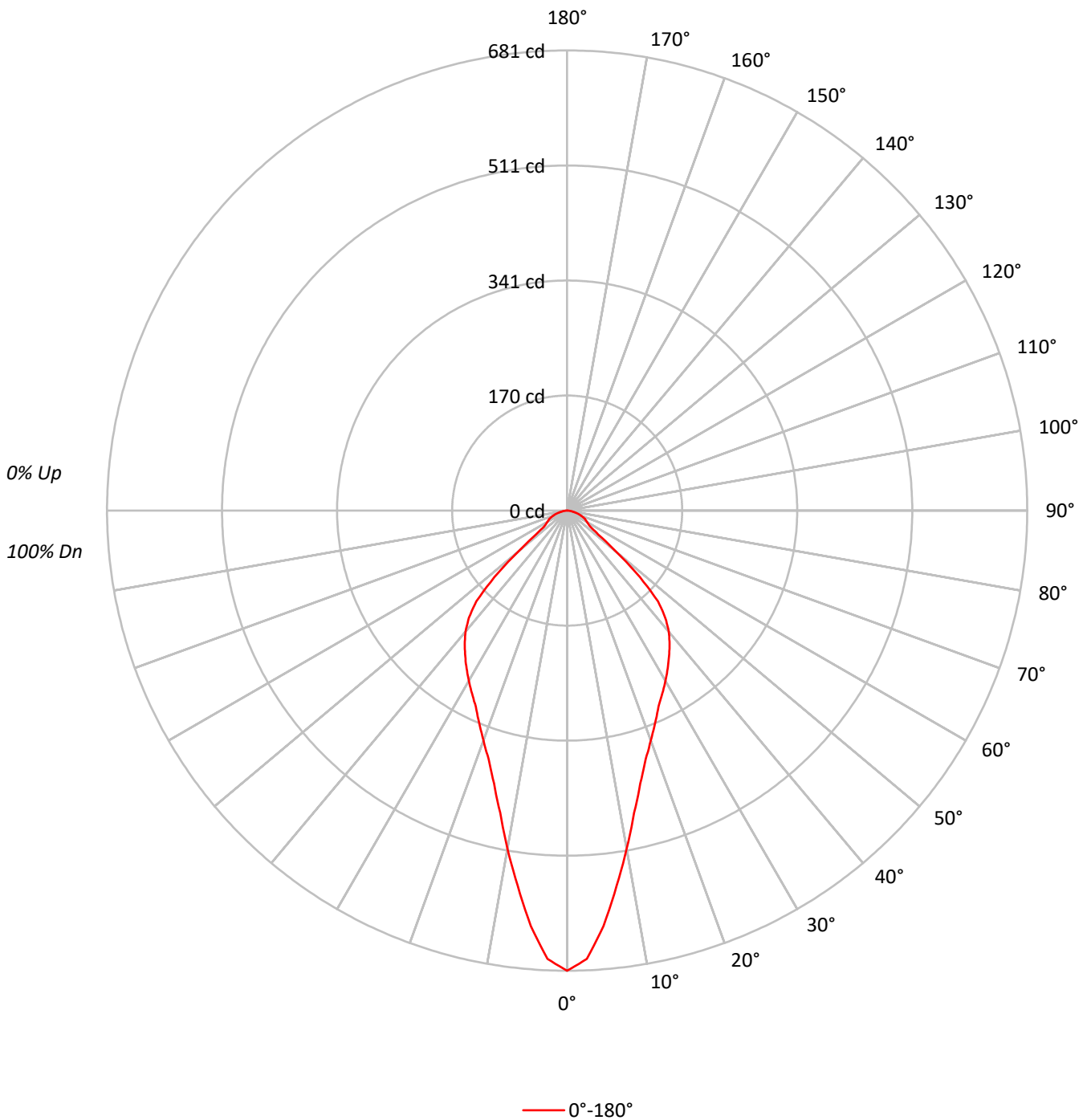
Input Watts (W): 13.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	120	120	120	120	117	117	117	117	112	112	112		107	107	107		102	102	102	100
1	112	109	105	103	110	106	103	101	102	100	98		98	97	95		95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87	85	82	80
3	98	89	83	78	95	88	82	77	85	80	76		83	78	75		80	77	74	72
4	91	82	75	69	89	80	74	69	78	72	68		76	71	67		74	70	66	64
5	85	75	67	62	83	74	67	62	72	66	61		70	65	60		68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55		65	59	55		63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50		60	54	50		59	54	50	48
8	70	59	52	47	69	58	51	46	57	51	46		56	50	46		55	50	46	44
9	66	55	48	43	65	54	47	43	53	47	43		52	46	42		51	46	42	41
10	63	51	44	40	61	51	44	40	50	44	39		49	43	39		48	43	39	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	59567
5°	54175
10°	45120
15°	37852
20°	33696
25°	30884
30°	29391
35°	28083
40°	26719
45°	23503
50°	12927
55°	6405
60°	5948
65°	6002
70°	5626
75°	4731
80°	4030
85°	3011



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	55.3	7.7	7.8
10°-20°	118.2	16.5	16.6
20°-30°	148.5	20.8	20.9
30°-40°	164.4	23.0	23.1
40°-50°	137.1	19.2	19.3
50°-60°	44.7	6.3	6.3
60°-70°	28.0	3.9	3.9
70°-80°	15.3	2.1	2.1
80°-90°	3.5	0.5	0.5
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°	322.0	45.0	45.2
0°-40°	486.4	68.0	68.3
0°-60°	668.2	93.5	93.9
0°-90°	715.0	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°	715.0	100.0	100.4

CANDELA DISTRIBUTION:

	0°	Flux
0°	681	
5°	617	55
15°	418	118
25°	320	148
35°	263	164
45°	190	137
55°	42	45
65°	29	28
75°	14	15
85°	3	3
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°	681
2.5°	664
5°	617
7.5°	560
10°	508
12.5°	458
15°	418
17.5°	386
20°	362
22.5°	340
25°	320
27.5°	305
30°	291
32.5°	277
35°	263
37.5°	249
40°	234
42.5°	215
45°	190
47.5°	146
50°	95
52.5°	58
55°	42
57.5°	37
60°	34
62.5°	31
65°	29
67.5°	25
70°	22
72.5°	18
75°	14
77.5°	11
80°	8
82.5°	5
85°	3
87.5°	1
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)