

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: P30083

Luminaire Tested: **ML706827-493WBS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30083
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706827-493WBS06
Description: HALO RECESSED LED RETROFIT MODULE WITH TRIM THAT INCLUDES
SHOWER RATED,SOLITE LENS,WHITE BAFFLED DESIGN REFLECTOR IN
Light Source: HIGH OUPUT LED PACKAGE
LED 14 WATTS
Ballast/Driver: 120V ELECTRONIC DRIVER

Summary

Lumens per Lamp: 597 (1 lamp)
Luminaire Lumens: 598.8 lumens
Efficiency: 100.3%
Efficacy: 43.4 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 0.65 / 0.91
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

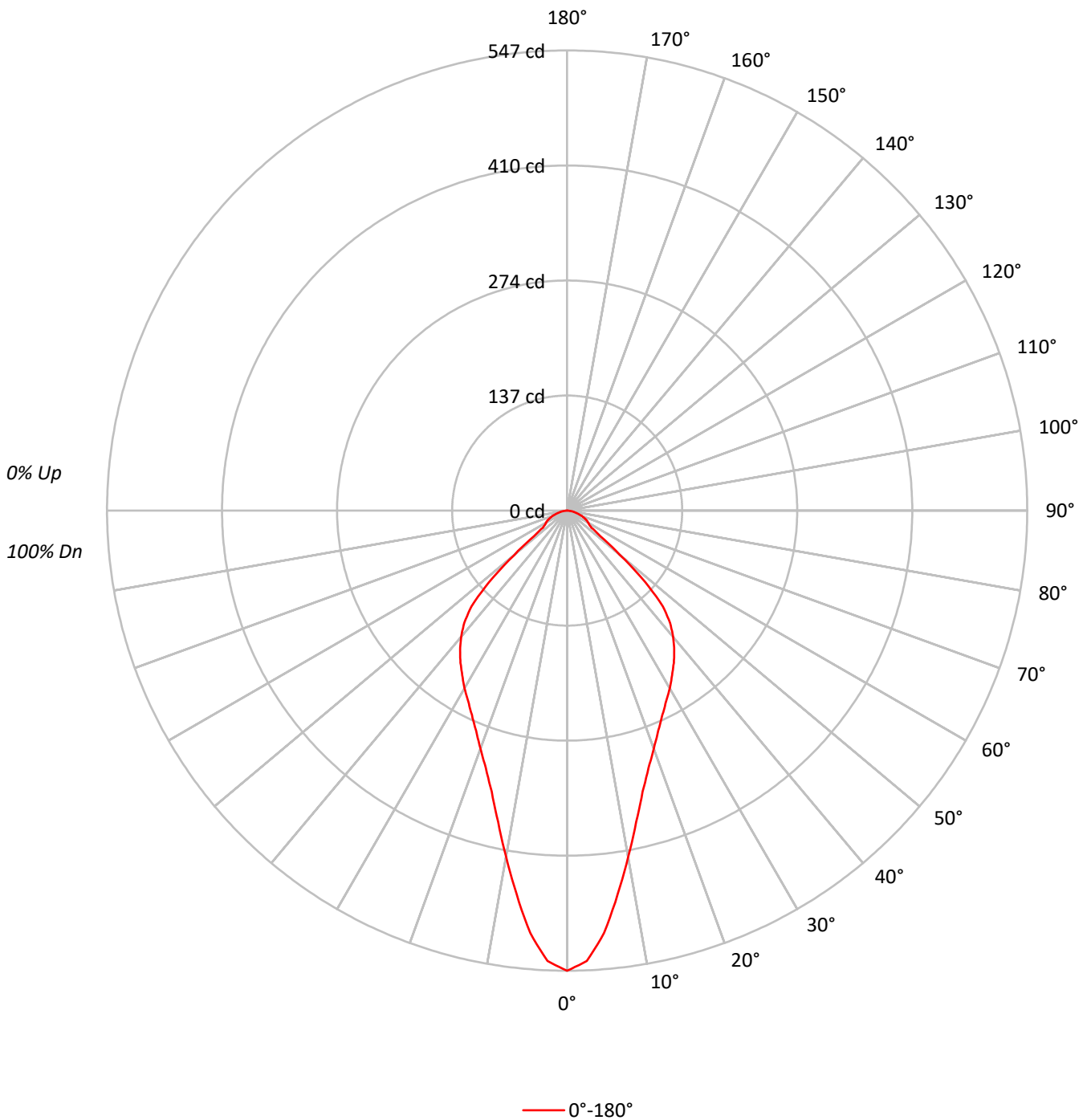
Input Watts (W): 13.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	117	117	117	117	111	111	111		107	107	107		102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86		90	87	84		87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80	76	73	71
4	91	81	74	69	89	80	74	68	78	72	68		76	71	67		74	69	66	64
5	85	74	67	62	83	73	67	61	71	65	61		70	64	60		68	63	60	58
6	80	68	61	56	78	68	61	55	66	60	55		64	59	55		63	58	54	52
7	75	63	56	51	73	62	55	50	61	55	50		60	54	50		58	53	50	48
8	70	59	51	46	69	58	51	46	57	50	46		56	50	46		54	49	45	44
9	66	54	47	43	65	54	47	42	53	47	42		52	46	42		51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39		49	43	39		48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	47846
5°	44253
10°	37126
15°	31332
20°	28018
25°	25865
30°	24644
35°	23598
40°	22380
45°	19916
50°	11158
55°	5337
60°	5073
65°	4967
70°	4603
75°	4055
80°	3526
85°	2007



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	45.3	7.6	7.6
10°-20°	97.9	16.4	16.4
20°-30°	124.0	20.7	20.8
30°-40°	137.9	23.0	23.1
40°-50°	116.3	19.4	19.5
50°-60°	38.1	6.4	6.4
60°-70°	23.6	3.9	4.0
70°-80°	12.8	2.1	2.1
80°-90°	2.9	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°	267.2	44.6	44.8
0°-40°	405.1	67.7	67.9
0°-60°	559.5	93.4	93.7
0°-90°	598.8	100.0	100.3
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°	598.8	100.0	100.3

CANDELA DISTRIBUTION:

	0°	Flux
0°	547	
5°	504	45
15°	346	98
25°	268	124
35°	221	138
45°	161	116
55°	35	38
65°	24	24
75°	12	13
85°	2	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°	547
2.5°	536
5°	504
7.5°	460
10°	418
12.5°	379
15°	346
17.5°	321
20°	301
22.5°	283
25°	268
27.5°	255
30°	244
32.5°	232
35°	221
37.5°	209
40°	196
42.5°	181
45°	161
47.5°	126
50°	82
52.5°	50
55°	35
57.5°	31
60°	29
62.5°	27
65°	24
67.5°	21
70°	18
72.5°	15
75°	12
77.5°	9
80°	7
82.5°	4
85°	2
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)