

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: P30053

Luminaire Tested: **ML706835-493BBS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30053
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706835-493BBS06
Description: HALO RECESSED LED RETROFIT MODULE WITH TRIM THAT INCLUDES
SHOWER RATED,SOLITE LENS,BLACK BAFFLED DESIGN REFLECTOR IN
TRIM
Light Source: HIGH OUPUT LED PACKAGE
14 WATTS
Ballast/Driver: 120V ELECTRONIC DRIVER

Summary

Lumens per Lamp: 542 (1 lamp)
Luminaire Lumens: 543.8 lumens
Efficiency: 100.3%
Efficacy: 39.4 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.8
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

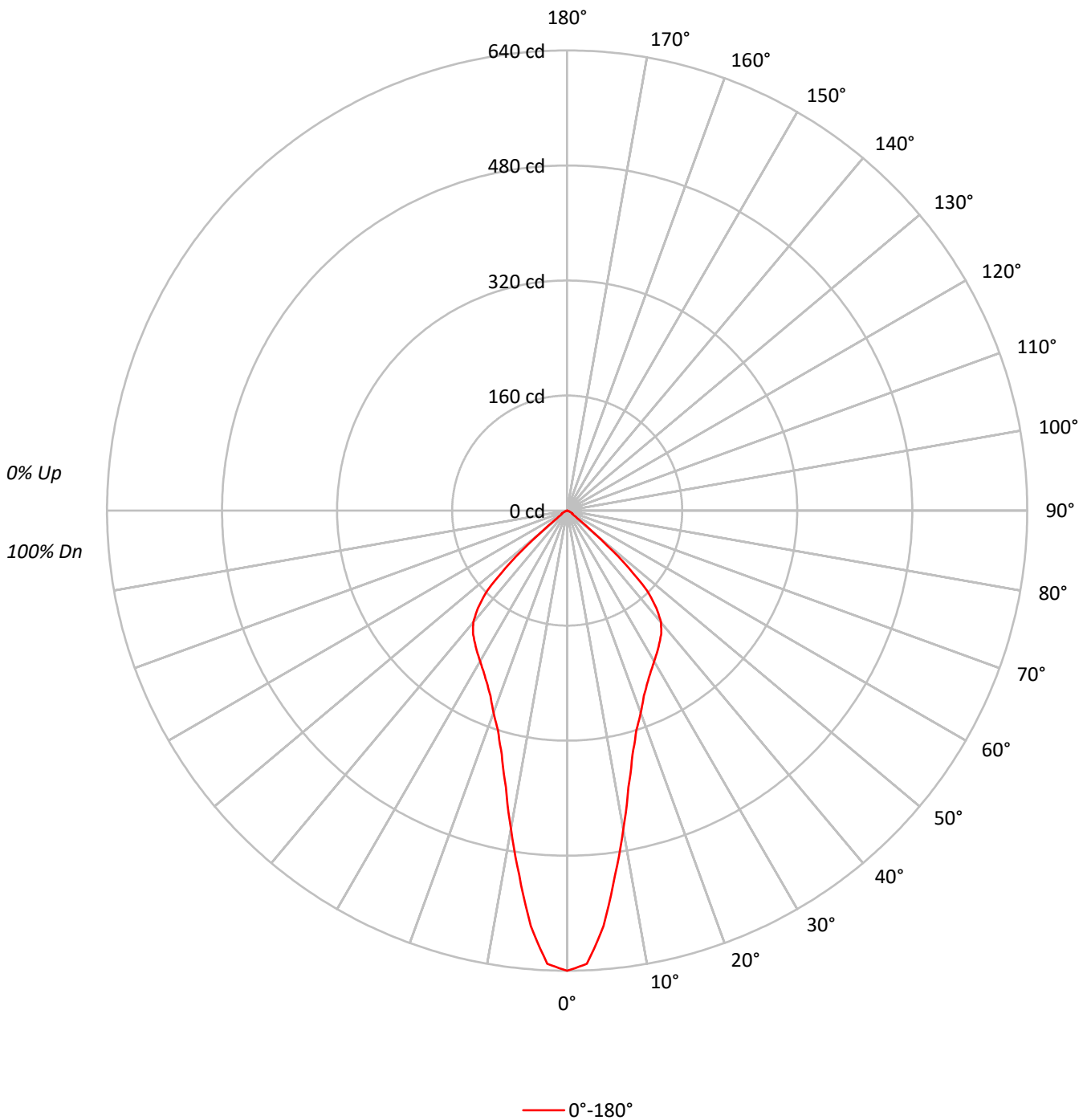
Input Watts (W): 13.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	117	117	117	117	111	111	111		107	107	107		102	102	102	100
1	113	110	107	105	111	108	105	103	104	102	100		100	98	97		97	95	94	92
2	107	101	96	93	104	99	95	91	96	92	89		93	90	88		90	88	86	84
3	100	93	87	83	98	91	86	82	89	84	80		86	82	79		84	81	78	76
4	94	85	79	74	92	84	78	74	82	77	73		80	75	72		78	74	71	69
5	88	79	72	67	87	78	71	67	76	70	66		74	69	65		72	68	65	63
6	83	73	66	61	81	72	65	61	70	65	60		69	64	60		67	63	59	58
7	78	67	61	56	77	67	60	56	65	60	55		64	59	55		63	58	55	53
8	74	63	56	51	72	62	56	51	61	55	51		60	55	51		59	54	50	49
9	70	59	52	47	68	58	52	47	57	51	47		56	51	47		55	50	47	45
10	66	55	48	44	65	54	48	44	54	48	44		53	47	44		52	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	50522
5°	45961
10°	36071
15°	28686
20°	25118
25°	22995
30°	22059
35°	21587
40°	20919
45°	17527
50°	6263
55°	1514
60°	1263
65°	934
70°	462
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	51.0	9.4	9.4
10°-20°	99.8	18.4	18.4
20°-30°	122.5	22.5	22.6
30°-40°	140.0	25.7	25.8
40°-50°	109.7	20.2	20.2
50°-60°	15.3	2.8	2.8
60°-70°	4.9	0.9	0.9
70°-80°	0.5	0.1	0.1
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°	273.4	50.3	50.4
0°-40°	413.4	76.0	76.3
0°-60°	538.4	99.0	99.3
0°-90°	543.8	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°	543.8	100.0	100.3

CANDELA DISTRIBUTION:

	0°	Flux
0°	640	
5°	580	51
15°	351	100
25°	264	123
35°	224	140
45°	157	110
55°	11	15
65°	5	5
75°	0	1
85°	0	0
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	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	640
2.5°	631
5°	580
7.5°	511
10°	450
12.5°	394
15°	351
17.5°	320
20°	299
22.5°	279
25°	264
27.5°	252
30°	242
32.5°	233
35°	224
37.5°	215
40°	203
42.5°	184
45°	157
47.5°	107
50°	51
52.5°	20
55°	11
57.5°	9
60°	8
62.5°	7
65°	5
67.5°	3
70°	2
72.5°	1
75°	0
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
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)