

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: P30086

Luminaire Tested: **ML706827-494WB06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30086
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706827-494WB06
Description: HALO RECESSED LED RETROFIT MODULE WITH TRIM THAT INCLUDES
WHITE BAFFLED DESIGN REFLECTOR IN TRIM
Light Source: HIGH OUPUT LED PACKAGE
LED 14 WATTS
Ballast/Driver: 120V ELECTRONIC DRIVER

Summary

Lumens per Lamp: 604 (1 lamp)
Luminaire Lumens: 605.6 lumens
Efficiency: 100.3%
Efficacy: 43.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.42
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

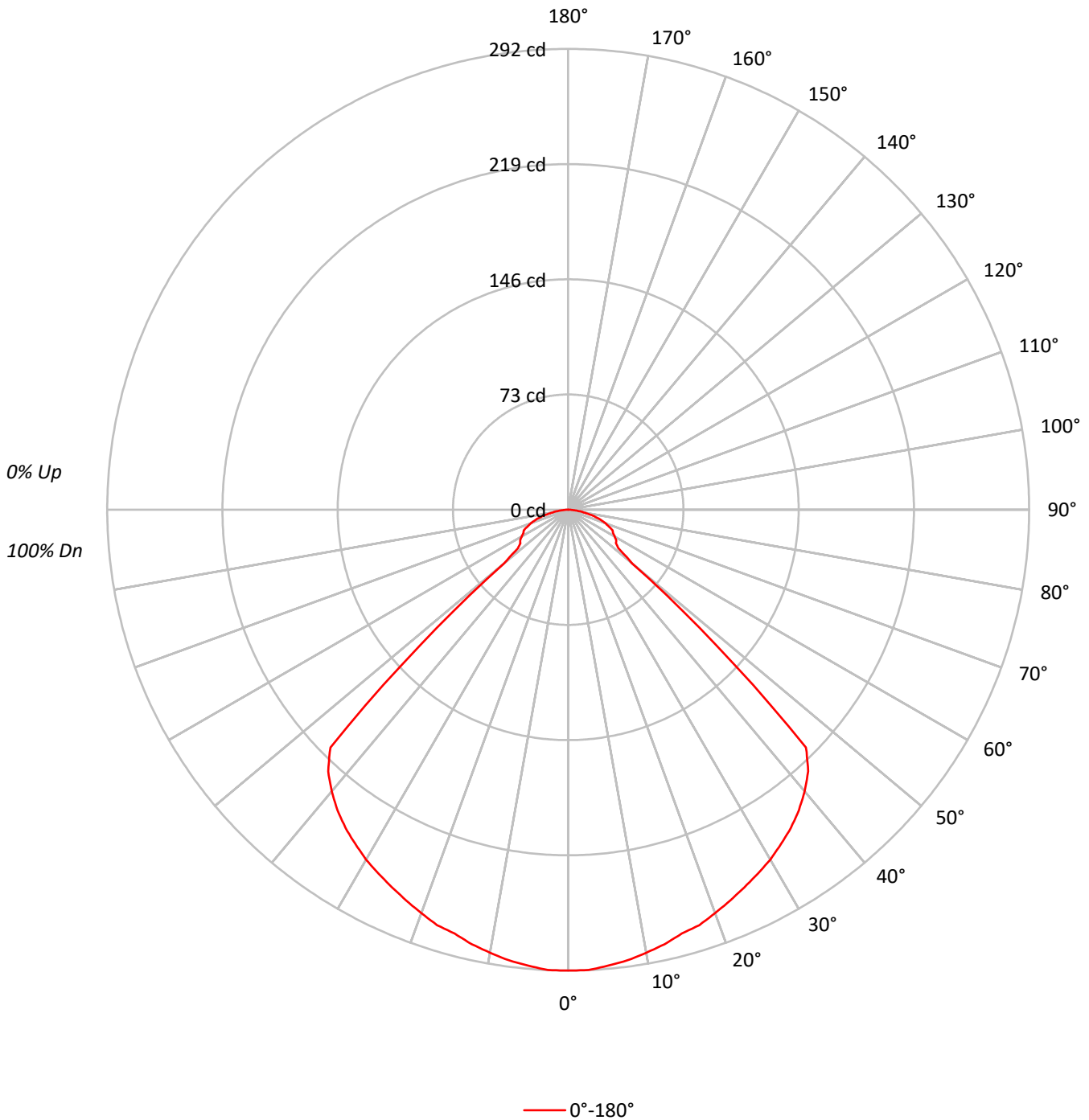
Input Watts (W): 13.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	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	83	88	85	81	85	82	80	78
3	96	87	80	75	93	85	79	74	83	77	73	80	75	72	78	74	70	69
4	89	79	71	66	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	83	72	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	48
7	72	60	52	46	70	59	52	46	58	51	46	56	50	46	55	50	45	44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	39
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36
10	59	47	40	35	58	46	39	35	46	39	35	45	39	34	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	23051
5°	22980
10°	22845
15°	22720
20°	22850
25°	22995
30°	23335
35°	23707
40°	24011
45°	23779
50°	6509
55°	5092
60°	5368
65°	5790
70°	5770
75°	5490
80°	4546
85°	3623



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	27.5	4.5	4.6
10°-20°	78.8	13.0	13.0
20°-30°	122.0	20.1	20.2
30°-40°	153.9	25.4	25.5
40°-50°	135.1	22.3	22.4
50°-60°	35.0	5.8	5.8
60°-70°	29.8	4.9	4.9
70°-80°	18.9	3.1	3.1
80°-90°	4.6	0.8	0.8
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°	228.3	37.7	37.8
0°-40°	382.2	63.1	63.3
0°-60°	552.3	91.2	91.4
0°-90°	605.6	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°	605.6	100.0	100.3

CANDELA DISTRIBUTION:

	0°	Flux
0°	292	
5°	290	28
15°	278	79
25°	264	122
35°	246	154
45°	213	135
55°	37	35
65°	31	30
75°	18	19
85°	4	4
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°	292
2.5°	292
5°	290
7.5°	288
10°	285
12.5°	282
15°	278
17.5°	276
20°	272
22.5°	268
25°	264
27.5°	260
30°	256
32.5°	251
35°	246
37.5°	240
40°	233
42.5°	225
45°	213
47.5°	127
50°	53
52.5°	40
55°	37
57.5°	36
60°	34
62.5°	32
65°	31
67.5°	28
70°	25
72.5°	22
75°	18
77.5°	14
80°	10
82.5°	7
85°	4
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)