

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: P30085

Luminaire Tested: **ML706827-494SCS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30085
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706827-494SCS06
Description: HALO RECESSED LED RETROFIT MODULE WITH SPECULAR DESIGN REFLECTOR
Light Source: HIGH OUPUT LED PACKAGE
14 WATTS
Ballast/Driver: 120V ELECTRONIC DRIVER

Summary

Lumens per Lamp: 640 (1 lamp)
Luminaire Lumens: 641.2 lumens
Efficiency: 100.2%
Efficacy: 46.5 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.29
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

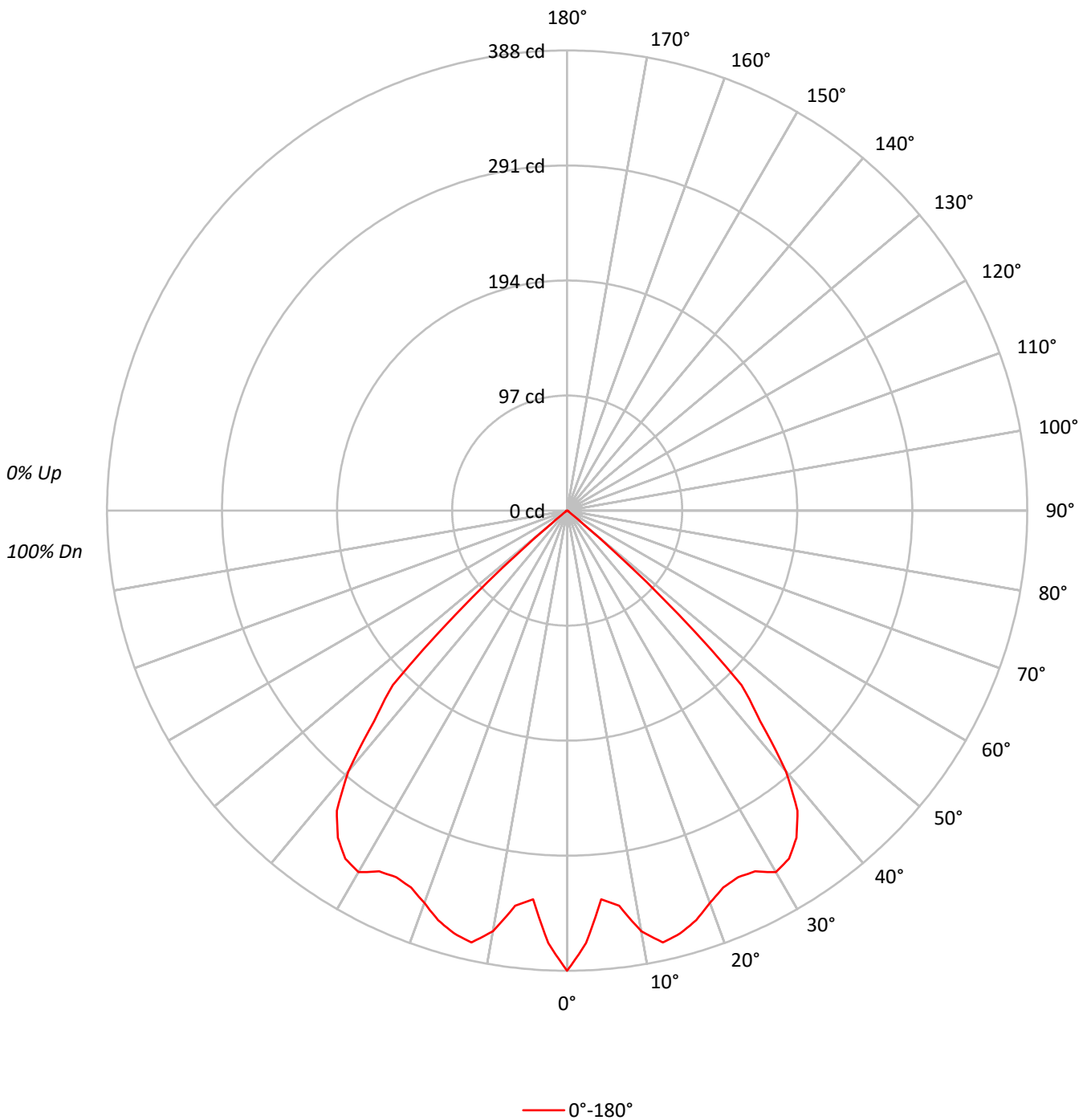
Input Watts (W): 13.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	116	116	116	111	111	111		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		93	90	87		90	87	85	84
3	100	92	86	82	98	91	85	81	88	84	80		86	82	79		83	80	77	76
4	93	85	78	73	91	83	77	73	81	76	72		79	75	71		77	73	70	68
5	87	78	71	66	86	77	70	65	75	69	65		73	68	64		71	67	64	62
6	82	71	64	59	80	71	64	59	69	63	59		67	62	58		66	61	58	56
7	77	66	59	54	75	65	58	54	64	58	53		62	57	53		61	56	53	51
8	72	61	54	49	71	60	54	49	59	53	49		58	52	48		57	52	48	47
9	68	56	49	45	66	56	49	45	55	49	44		54	48	44		53	48	44	43
10	64	52	46	41	62	52	45	41	51	45	41		50	45	41		49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	30629
5°	26071
10°	28857
15°	30157
20°	29571
25°	29702
30°	32086
35°	32476
40°	29575
45°	23221
50°	2211
55°	138
60°	158
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	32.9	5.1	5.1
10°-20°	103.3	16.1	16.1
20°-30°	159.7	24.9	24.9
30°-40°	207.1	32.3	32.4
40°-50°	134.8	21.0	21.1
50°-60°	3.1	0.5	0.5
60°-70°	0.4	0.1	0.1
70°-80°	0.0	0.0	0.0
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°	295.9	46.1	46.2
0°-40°	503.0	78.4	78.6
0°-60°	640.9	99.9	100.1
0°-90°	641.2	100.0	100.2
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°	641.2	100.0	100.2

CANDELA DISTRIBUTION:

	0°	Flux
0°	388	
5°	329	33
15°	369	103
25°	341	160
35°	337	207
45°	208	135
55°	1	3
65°	0	0
75°	0	0
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	0



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CANDELA DISTRIBUTION (FULL):

	0°
0°	388
2.5°	365
5°	329
7.5°	336
10°	360
12.5°	373
15°	369
17.5°	362
20°	352
22.5°	344
25°	341
27.5°	343
30°	352
32.5°	348
35°	337
37.5°	319
40°	287
42.5°	241
45°	208
47.5°	109
50°	18
52.5°	3
55°	1
57.5°	1
60°	1
62.5°	1
65°	0
67.5°	0
70°	0
72.5°	0
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)