

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: P30061

Luminaire Tested: **ML706830T120DEM – 494SC06 – H750TEM6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30061
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P30061)
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706830T120DEM – 494SC06 – H750TEM6
Description: HALO RECESSED LED RETROFIT MODULE WITH SPECULAR REFLECTOR
Light Source: HIGH OUPUT LED PACKAGE
Ballast/Driver: IOTA BATTERY PACK

Summary

Lumens per Lamp: 455 (1 lamp)
Luminaire Lumens: 454.9 lumens
Efficiency: 100.0%
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.3
Luminous Opening: Vertical Cylinder (Dia: 0.42' x H: 0.1')
CIE Type: Direct

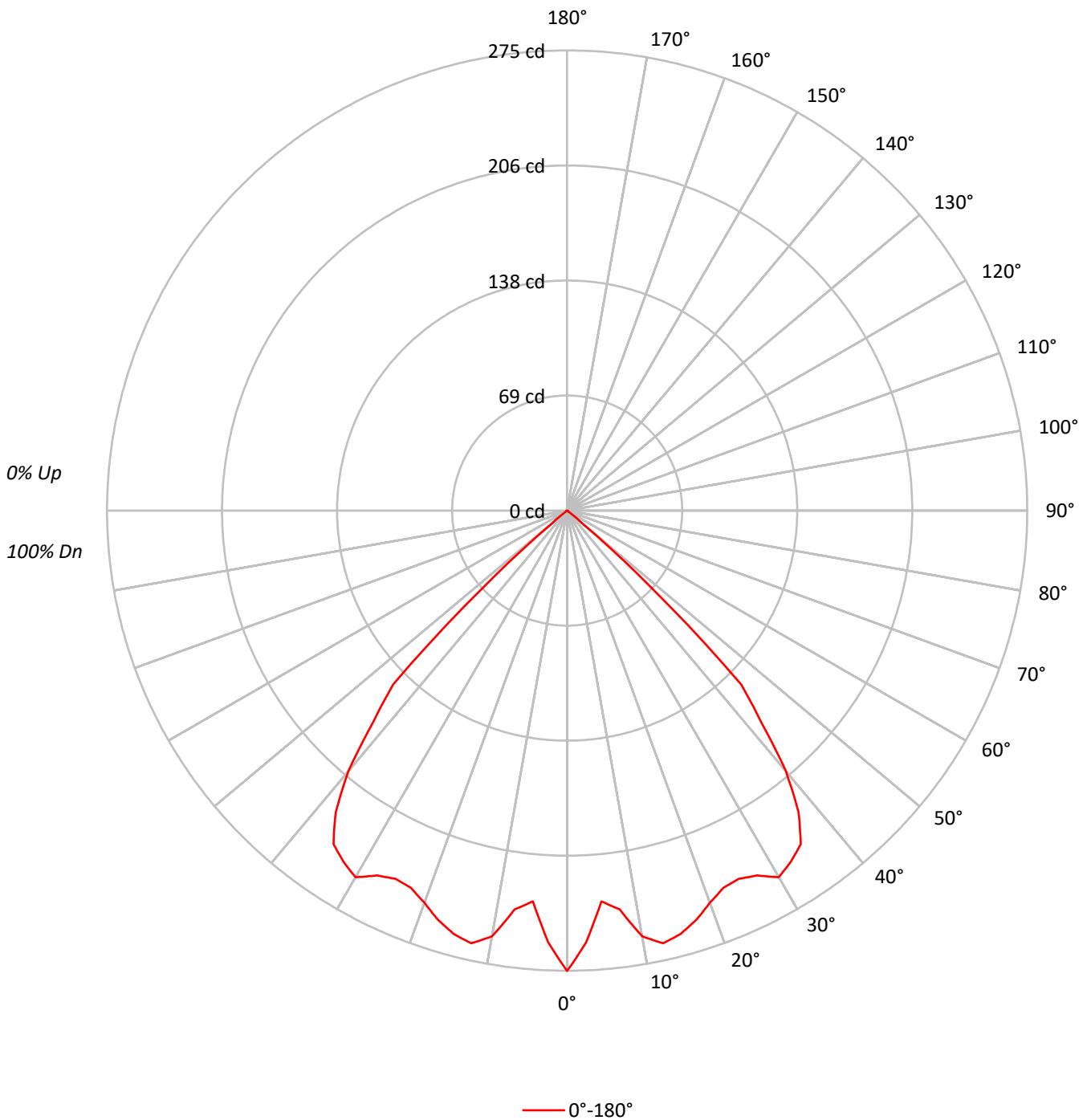
Input Watts (W): 5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	102	102	102	100
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83
3	99	92	86	82	97	91	85	81	88	83	80	85	82	78	83	80	77	76
4	93	84	78	73	91	83	77	73	81	76	72	79	74	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	70	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	53	49	59	53	49	58	52	48	57	52	48	47
9	68	56	49	45	66	56	49	45	55	49	45	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°	21717
5°	18091
10°	19646
15°	19784
20°	18854
25°	18511
30°	19603
35°	19322
40°	16675
45°	12578
50°	1026
55°	57
60°	62
65°	68
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	23.5	5.2	5.2
10°-20°	73.3	16.1	16.1
20°-30°	113.9	25.0	25.0
30°-40°	148.2	32.6	32.6
40°-50°	93.6	20.6	20.6
50°-60°	1.8	0.4	0.4
60°-70°	0.5	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°	210.7	46.3	46.3
0°-40°	358.9	78.9	78.9
0°-60°	454.4	99.9	99.9
0°-90°	454.9	100.0	100.0
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°	454.9	100.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	275	
5°	234	23
15°	262	73
25°	243	114
35°	243	148
45°	147	94
55°	1	2
65°	1	1
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	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	275.1
2.5°	258.3
5°	234.4
7.5°	240.4
10°	258.3
12.5°	264.9
15°	261.9
17.5°	256.5
20°	249.4
22.5°	244.0
25°	242.8
27.5°	245.8
30°	253.0
32.5°	248.8
35°	243.4
37.5°	227.2
40°	203.3
42.5°	171.6
45°	147.1
47.5°	68.2
50°	11.4
52.5°	1.2
55°	0.6
57.5°	0.6
60°	0.6
62.5°	0.6
65°	0.6
67.5°	0.6
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)