

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: P30059

Luminaire Tested: **ML706830T120DEM – 493WBS06 – H750TEM6**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P30059  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P30059)  
Test Lab: METALUX RESEARCH LABS  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: ML706830T120DEM – 493WBS06 – H750TEM6  
Description: HALO RECESSED LED RETROFIT MODULE WITH TRIM THAT INCLUDES SHOWER RATED,SOLITE LENS,WHITE BAFFLED DESIGN REFLECTOR IN TRIM  
Light Source: HIGH OUPUT LED PACKAGE  
Ballast/Driver: IOTA BATTERY PACK

**Summary**

Lumens per Lamp: 409 (1 lamp)  
Luminaire Lumens: 408.9 lumens  
Efficiency: 100.0%  
Efficacy: 81.8 lumens/watt  
Spacing Criteria (0/90/45): 0.65 / 0.65 / 0.92  
Luminous Opening: Vertical Cylinder (Dia: 0.4' x H: 0.1')  
CIE Type: Direct

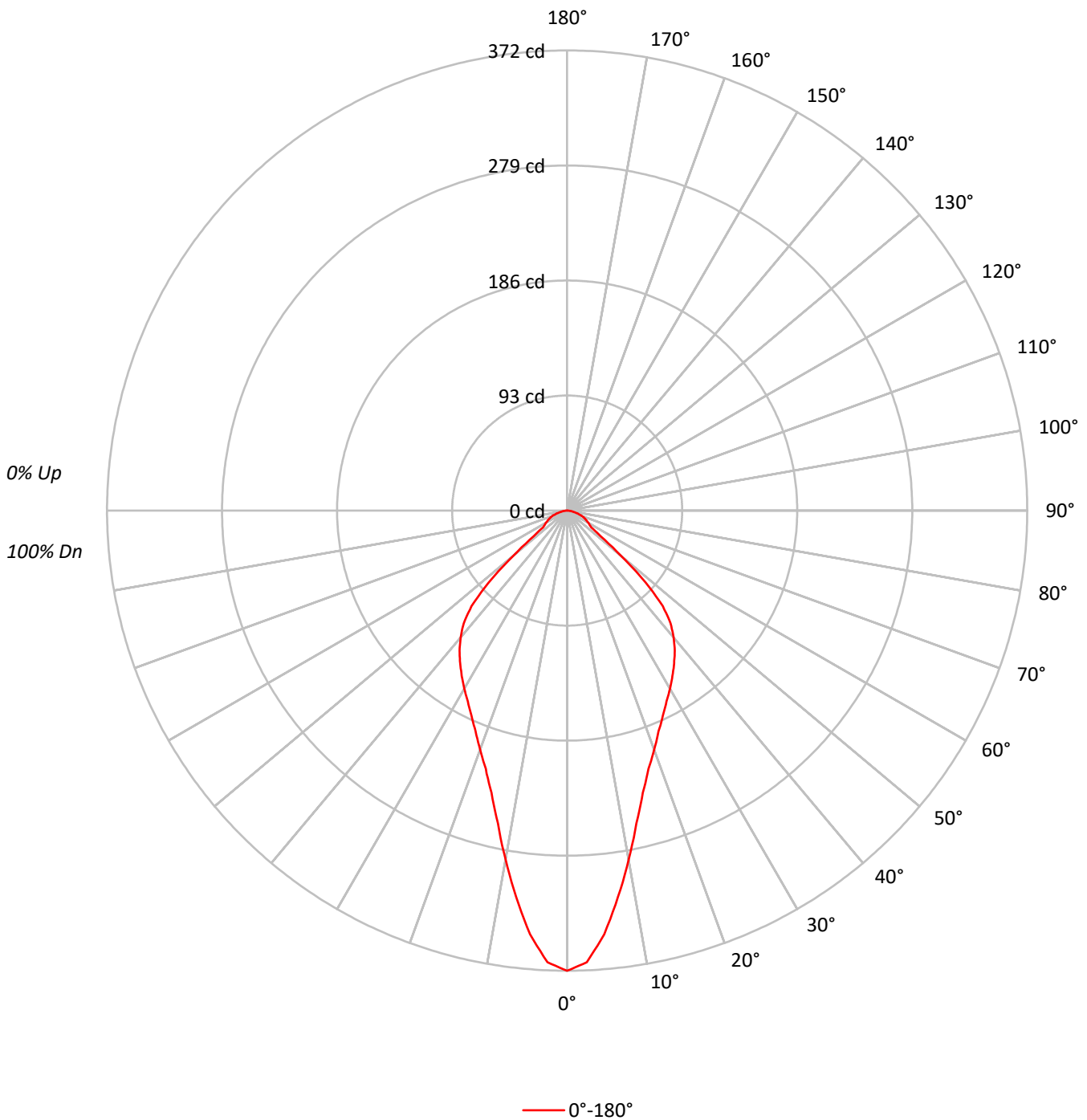
Input Watts (W): 5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85		90	86	83		87	84	82	80
3	97	89	83	77	95	87	82	77	85	80	76		82	78	74		80	76	73	71
4	91	81	74	69	89	80	73	68	77	72	67		75	70	67		73	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61		69	64	60		68	63	59	58
6	79	68	61	56	78	67	60	55	66	60	55		64	59	54		63	58	54	52
7	74	63	56	50	73	62	55	50	61	55	50		60	54	50		58	53	49	48
8	70	58	51	46	68	58	51	46	57	50	46		55	50	46		54	49	45	44
9	66	54	47	42	65	54	47	42	53	46	42		52	46	42		51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39		48	43	39		48	42	39	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	32539
5°	29361
10°	24072
15°	19692
20°	17140
25°	15358
30°	14157
35°	13134
40°	12049
45°	10239
50°	5528
55°	2497
60°	2213
65°	1972
70°	1711
75°	1290
80°	749
85°	386



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	30.9	7.6	7.6
10°-20°	66.9	16.4	16.4
20°-30°	84.7	20.7	20.7
30°-40°	94.2	23.0	23.0
40°-50°	79.4	19.4	19.4
50°-60°	26.1	6.4	6.4
60°-70°	16.0	3.9	3.9
70°-80°	8.7	2.1	2.1
80°-90°	2.0	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°	182.5	44.6	44.6
0°-40°	276.7	67.7	67.6
0°-60°	382.1	93.5	93.4
0°-90°	408.9	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°	408.9	100.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	372	
5°	344	31
15°	236	67
25°	183	85
35°	151	94
45°	109	79
55°	24	26
65°	16	16
75°	8	9
85°	2	2
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°	372.0
2.5°	365.4
5°	343.8
7.5°	315.1
10°	286.4
12.5°	258.9
15°	236.2
17.5°	218.9
20°	205.7
22.5°	193.2
25°	183.0
27.5°	174.0
30°	166.2
32.5°	158.5
35°	150.7
37.5°	142.9
40°	134.0
42.5°	123.8
45°	109.4
47.5°	86.1
50°	56.2
52.5°	34.1
55°	23.9
57.5°	21.5
60°	19.7
62.5°	17.9
65°	16.1
67.5°	14.4
70°	12.6
72.5°	10.2
75°	8.4
77.5°	6.0
80°	4.2
82.5°	3.0
85°	1.8
87.5°	0.6
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)