

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: P30060

Luminaire Tested: **ML706830T120DEM – 493SCS06 – H750TEM6**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P30060  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P30060)  
Test Lab: METALUX RESEARCH LABS  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: ML706830T120DEM – 493SCS06 – H750TEM6  
Description: HALO RECESSED LED RETROFIT MODULE WITH TRIM THAT INCLUDES SHOWER RATED, SOLITE LENS, SPECULAR DESIGN REFLECTOR IN TRIM  
Light Source: HIGH OUPUT LED PACKAGE  
Ballast/Driver: IOTA BATTERY PACK

**Summary**

Lumens per Lamp: 404 (1 lamp)  
Luminaire Lumens: 403.6 lumens  
Efficiency: 99.9%  
Efficacy: 80.7 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 1.01  
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.1')  
CIE Type: Direct

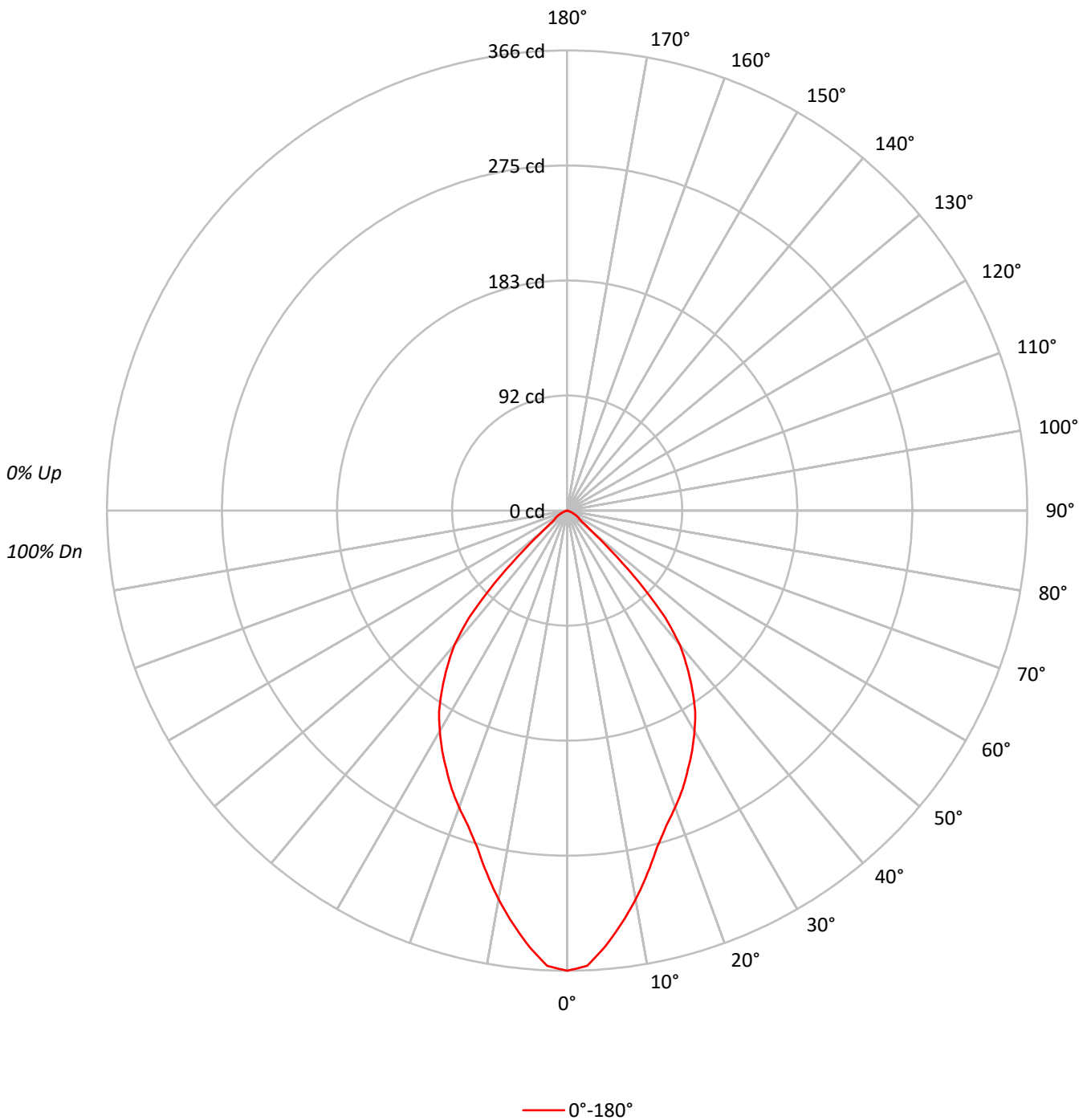
Input Watts (W): 5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	96	92	104	99	95	91	96	92	89	92	90	87	90	87	85	84
3	100	92	87	82	98	91	86	82	88	84	80	86	82	79	83	80	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	86	78	71	67	76	70	66	74	69	66	72	68	65	63
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58
7	78	68	61	56	77	67	60	56	65	60	56	64	59	55	63	58	55	53
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	51	47	45
10	66	55	48	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42

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

	0°
0°	39989
5°	37004
10°	32760
15°	28570
20°	25828
25°	23458
30°	21178
35°	18477
40°	15264
45°	9240
50°	2987
55°	1510
60°	1212
65°	788
70°	386
75°	108
80°	124
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	32.1	8.0	8.0
10°-20°	78.3	19.4	19.4
20°-30°	104.6	25.9	25.9
30°-40°	107.7	26.7	26.7
40°-50°	61.8	15.3	15.3
50°-60°	12.3	3.0	3.0
60°-70°	5.5	1.4	1.4
70°-80°	1.2	0.3	0.3
80°-90°	0.1	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°	215.0	53.3	53.2
0°-40°	322.6	79.9	79.9
0°-60°	396.8	98.3	98.2
0°-90°	403.6	100.0	99.9
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°	403.6	100.0	99.9

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	366	
5°	348	32
15°	277	78
25°	227	105
35°	173	108
45°	81	62
55°	12	12
65°	5	6
75°	1	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°	366.0
2.5°	362.4
5°	348.0
7.5°	331.3
10°	314.0
12.5°	295.4
15°	276.9
17.5°	262.5
20°	251.2
22.5°	239.8
25°	227.2
27.5°	215.3
30°	202.7
32.5°	189.6
35°	173.4
37.5°	156.7
40°	139.3
42.5°	115.4
45°	81.3
47.5°	47.2
50°	25.1
52.5°	15.5
55°	12.0
57.5°	10.8
60°	9.0
62.5°	7.2
65°	5.4
67.5°	4.2
70°	2.4
72.5°	1.8
75°	0.6
77.5°	0.6
80°	0.6
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)