

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: **ML706835T120DEM – 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: ML706835T120DEM – 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: 426 (1 lamp)  
Luminaire Lumens: 425.9 lumens  
Efficiency: 100.0%  
Efficacy: 85.2 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

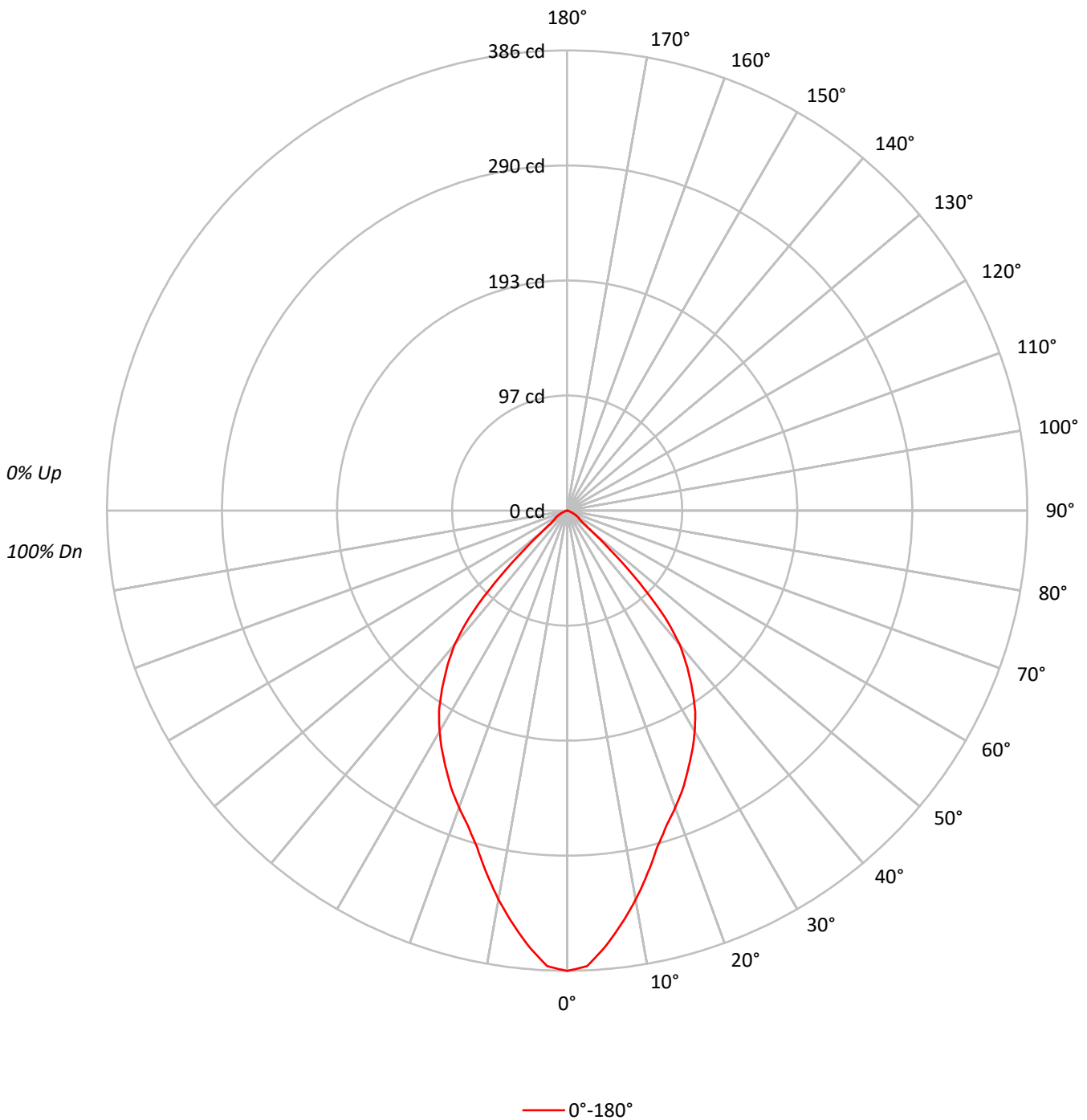
Input Watts (W): 5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	93	87	82	98	91	86	82	88	84	80	86	82	79	84	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	61	69	64	60	68	63	60	58
7	78	68	61	56	77	67	60	56	66	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	46
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42

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

	0°
0°	42197
5°	39046
10°	34576
15°	30148
20°	27257
25°	24759
30°	22348
35°	19500
40°	16108
45°	9752
50°	3153
55°	1599
60°	1279
65°	832
70°	402
75°	108
80°	124
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	33.9	8.0	8.0
10°-20°	82.6	19.4	19.4
20°-30°	110.3	25.9	25.9
30°-40°	113.7	26.7	26.7
40°-50°	65.3	15.3	15.3
50°-60°	13.0	3.1	3.1
60°-70°	5.8	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°	226.8	53.3	53.3
0°-40°	340.5	79.9	79.9
0°-60°	418.8	98.3	98.3
0°-90°	425.9	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°	425.9	100.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	386	
5°	367	34
15°	292	83
25°	240	110
35°	183	114
45°	86	65
55°	13	13
65°	6	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	0



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	386.2
2.5°	382.4
5°	367.2
7.5°	349.6
10°	331.4
12.5°	311.7
15°	292.2
17.5°	277.0
20°	265.1
22.5°	253.1
25°	239.8
27.5°	227.2
30°	213.9
32.5°	200.1
35°	183.0
37.5°	165.4
40°	147.0
42.5°	121.8
45°	85.8
47.5°	49.8
50°	26.5
52.5°	16.4
55°	12.7
57.5°	11.4
60°	9.5
62.5°	7.6
65°	5.7
67.5°	4.4
70°	2.5
72.5°	1.9
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)