

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: **ML706840T120DEM – 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: ML706840T120DEM – 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: 446 (1 lamp)
Luminaire Lumens: 446.2 lumens
Efficiency: 100.0%
Efficacy: 89.2 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

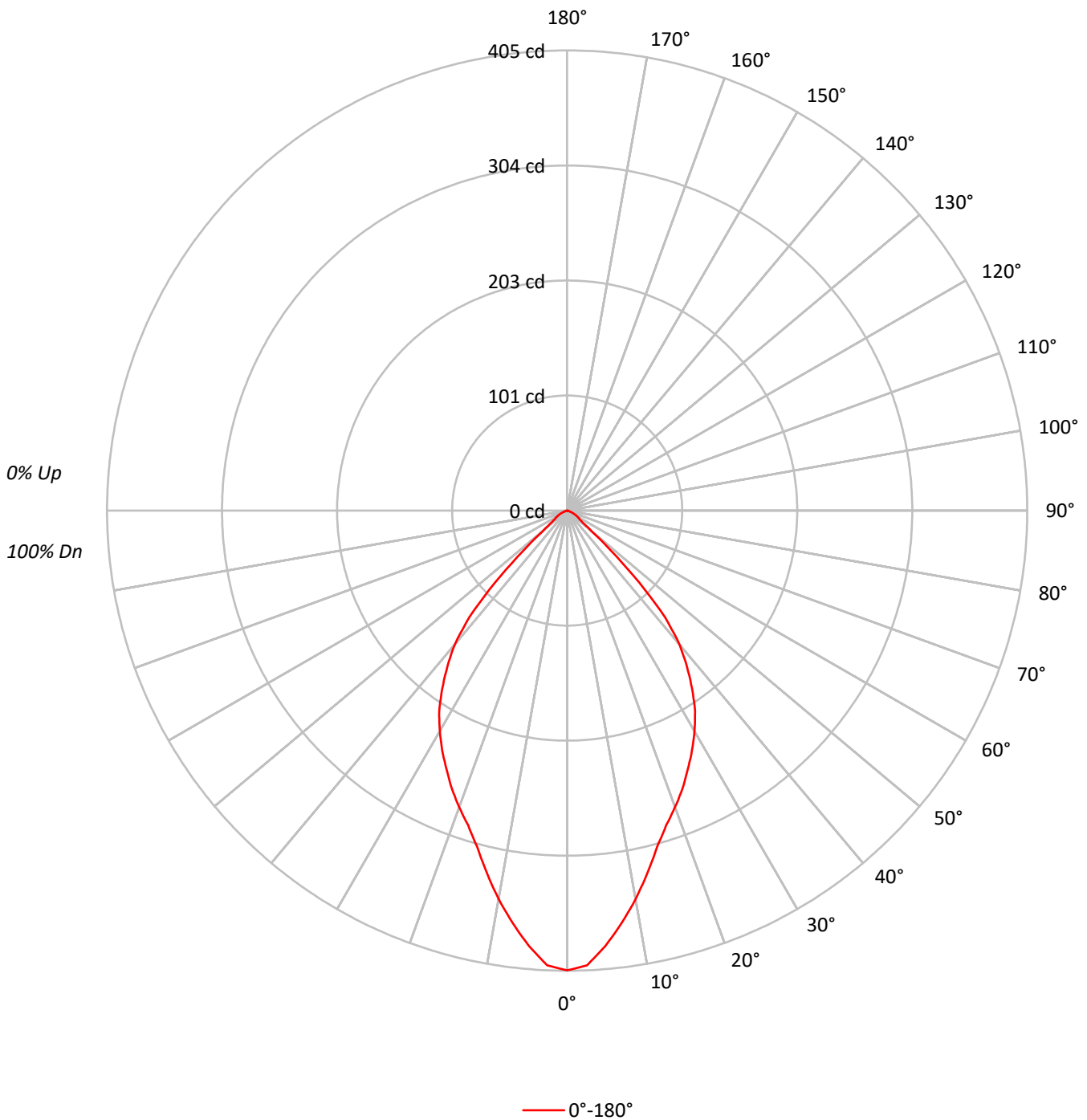
Input Watts (W): 5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	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	88	85	84
3	100	93	87	82	98	91	86	82	88	84	80		86	82	79		84	81	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	72	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°	44207
5°	40907
10°	36214
15°	31582
20°	28553
25°	25936
30°	23414
35°	20427
40°	16875
45°	10218
50°	3296
55°	1674
60°	1333
65°	876
70°	434
75°	126
80°	145
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	35.5	8.0	8.0
10°-20°	86.5	19.4	19.4
20°-30°	115.6	25.9	25.9
30°-40°	119.0	26.7	26.7
40°-50°	68.4	15.3	15.3
50°-60°	13.6	3.0	3.0
60°-70°	6.1	1.4	1.4
70°-80°	1.3	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°	237.6	53.3	53.3
0°-40°	356.7	79.9	80.0
0°-60°	438.6	98.3	98.3
0°-90°	446.2	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°	446.2	100.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	405	
5°	385	36
15°	306	87
25°	251	116
35°	192	119
45°	90	68
55°	13	14
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°	404.6
2.5°	400.6
5°	384.7
7.5°	366.3
10°	347.1
12.5°	326.6
15°	306.1
17.5°	290.2
20°	277.7
22.5°	265.1
25°	251.2
27.5°	238.0
30°	224.1
32.5°	209.6
35°	191.7
37.5°	173.2
40°	154.0
42.5°	127.6
45°	89.9
47.5°	52.2
50°	27.7
52.5°	17.1
55°	13.3
57.5°	11.9
60°	9.9
62.5°	8.0
65°	6.0
67.5°	4.6
70°	2.7
72.5°	2.0
75°	0.7
77.5°	0.7
80°	0.7
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)