

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: **ML706827T120DEM – 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: ML706827T120DEM – 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: 379 (1 lamp)
Luminaire Lumens: 379.3 lumens
Efficiency: 100.1%
Efficacy: 75.9 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

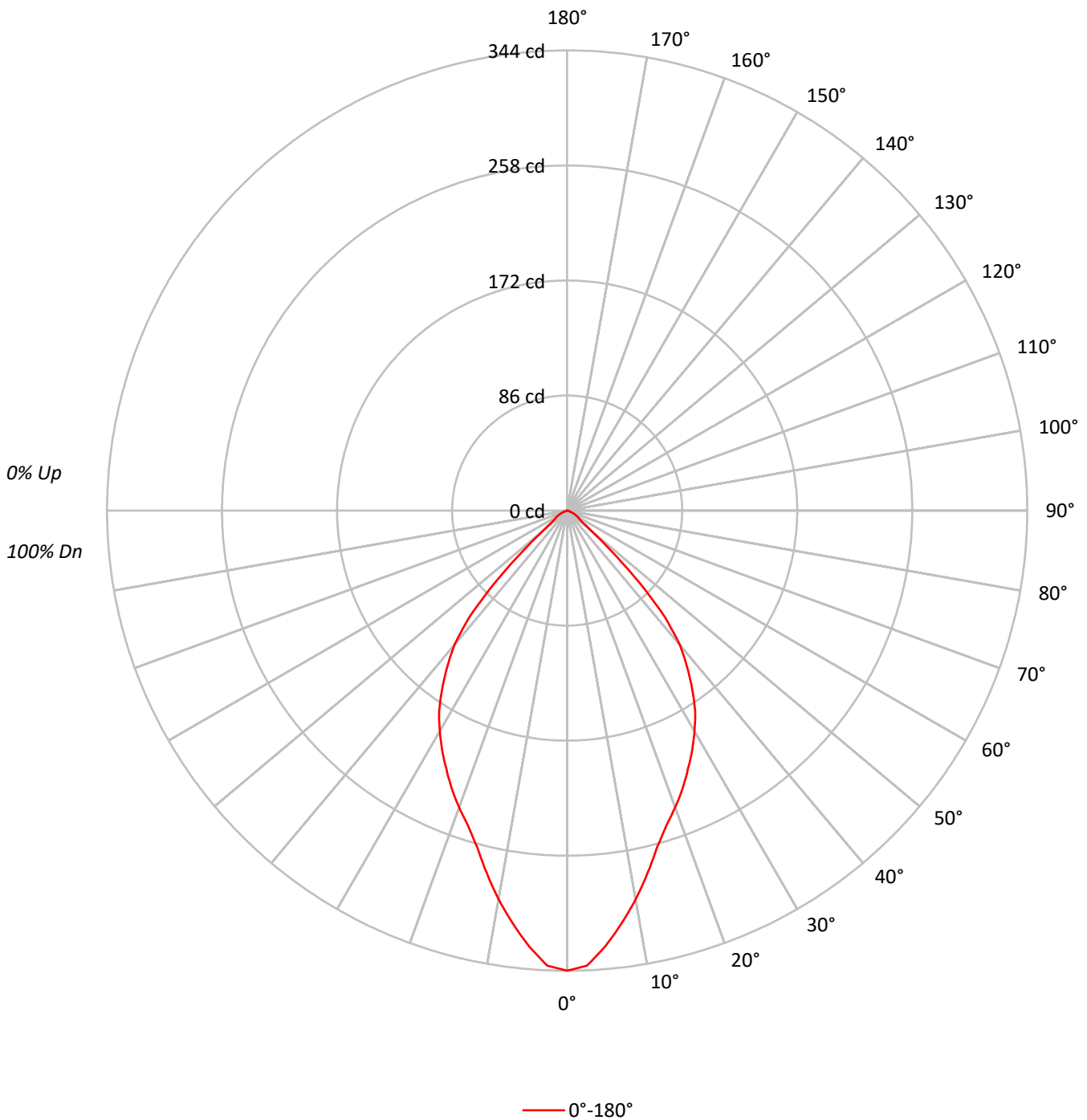
Input Watts (W): 5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	86	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	87	78	72	67	76	70	66	74	69	66	73	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	61	56	66	60	56	64	59	55	63	59	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°	37575
5°	34771
10°	30789
15°	26846
20°	24276
25°	22043
30°	19903
35°	17358
40°	14343
45°	8683
50°	2808
55°	1422
60°	1145
65°	745
70°	370
75°	108
80°	124
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	30.2	8.0	8.0
10°-20°	73.5	19.4	19.4
20°-30°	98.2	25.9	25.9
30°-40°	101.2	26.7	26.7
40°-50°	58.1	15.3	15.3
50°-60°	11.6	3.0	3.1
60°-70°	5.2	1.4	1.4
70°-80°	1.1	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°	202.0	53.3	53.3
0°-40°	303.2	79.9	80.0
0°-60°	372.9	98.3	98.4
0°-90°	379.3	100.0	100.1
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°	379.3	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	344	
5°	327	30
15°	260	74
25°	214	98
35°	163	101
45°	76	58
55°	11	12
65°	5	5
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°	343.9
2.5°	340.5
5°	327.0
7.5°	311.3
10°	295.1
12.5°	277.6
15°	260.2
17.5°	246.7
20°	236.1
22.5°	225.3
25°	213.5
27.5°	202.3
30°	190.5
32.5°	178.2
35°	162.9
37.5°	147.3
40°	130.9
42.5°	108.4
45°	76.4
47.5°	44.4
50°	23.6
52.5°	14.6
55°	11.3
57.5°	10.1
60°	8.5
62.5°	6.8
65°	5.1
67.5°	3.9
70°	2.3
72.5°	1.7
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)