

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: P30061

Luminaire Tested: **ML706827T120DEM – 494SC06 – H750TEM6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30061
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P30061)
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706827T120DEM – 494SC06 – H750TEM6
Description: HALO RECESSED LED RETROFIT MODULE WITH SPECULAR REFLECTOR
Light Source: HIGH OUPUT LED PACKAGE
Ballast/Driver: IOTA BATTERY PACK

Summary

Lumens per Lamp: 427 (1 lamp)
Luminaire Lumens: 427.5 lumens
Efficiency: 100.1%
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.3
Luminous Opening: Vertical Cylinder (Dia: 0.42' x H: 0.1')
CIE Type: Direct

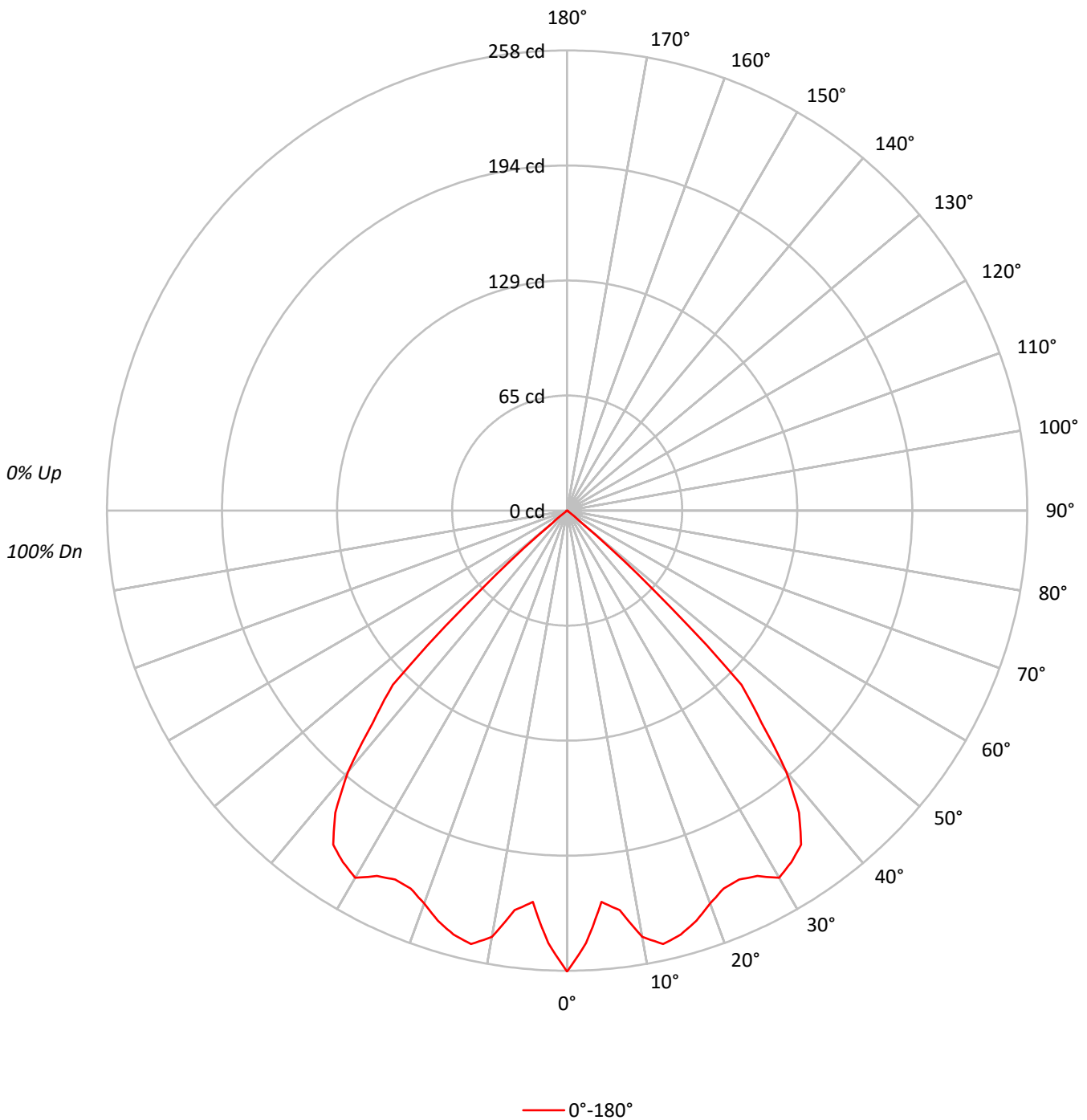
Input Watts (W): 5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P30061

CATALOG NUMBER: ML706827T120DEM – 494SC06 – H750TEM6

Luminous Intensity Polar Plot





TEST NUMBER: P30061

CATALOG NUMBER: ML706827T120DEM – 494SC06 – H750TEM6

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	107	107	107	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	92	90	87	90	87	85	84
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76
4	93	85	78	73	91	83	77	73	81	76	72	79	75	71	77	73	70	68
5	87	78	71	66	86	77	70	65	75	69	65	73	68	64	71	67	64	62
6	82	71	64	59	80	71	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	48	47
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43
10	64	52	46	41	63	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	20406
5°	17003
10°	18460
15°	18591
20°	17720
25°	17398
30°	18418
35°	18155
40°	15666
45°	11817
50°	963
55°	57
60°	62
65°	68
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P30061

CATALOG NUMBER: ML706827T120DEM – 494SC06 – H750TEM6

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	22.1	5.2	5.2
10°-20°	68.9	16.1	16.1
20°-30°	107.0	25.0	25.1
30°-40°	139.3	32.6	32.6
40°-50°	88.0	20.6	20.6
50°-60°	1.7	0.4	0.4
60°-70°	0.5	0.1	0.1
70°-80°	0.0	0.0	0.0
80°-90°	0.0	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°	198.0	46.3	46.4
0°-40°	337.3	78.9	79.0
0°-60°	427.0	99.9	100.0
0°-90°	427.5	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°	427.5	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	258	
5°	220	22
15°	246	69
25°	228	107
35°	229	139
45°	138	88
55°	1	2
65°	1	1
75°	0	0
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



TEST NUMBER: P30061

CATALOG NUMBER: ML706827T120DEM – 494SC06 – H750TEM6

CANDELA DISTRIBUTION (FULL):

0°	
0°	258.5
2.5°	242.7
5°	220.3
7.5°	225.9
10°	242.7
12.5°	248.9
15°	246.1
17.5°	241.0
20°	234.4
22.5°	229.3
25°	228.2
27.5°	231.0
30°	237.7
32.5°	233.8
35°	228.7
37.5°	213.5
40°	191.0
42.5°	161.3
45°	138.2
47.5°	64.1
50°	10.7
52.5°	1.1
55°	0.6
57.5°	0.6
60°	0.6
62.5°	0.6
65°	0.6
67.5°	0.6
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
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



TEST NUMBER: P30061

CATALOG NUMBER: ML706827T120DEM – 494SC06 – H750TEM6

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)