

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: P30059

Luminaire Tested: **ML706835T120DEM – 493WBS06 – H750TEM6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30059
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P30059)
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706835T120DEM – 493WBS06 – H750TEM6
Description: HALO RECESSED LED RETROFIT MODULE WITH TRIM THAT INCLUDES SHOWER RATED,SOLITE LENS,WHITE BAFFLED DESIGN REFLECTOR IN TRIM
Light Source: HIGH OUPUT LED PACKAGE
Ballast/Driver: IOTA BATTERY PACK

Summary

Lumens per Lamp: 431 (1 lamp)
Luminaire Lumens: 431.5 lumens
Efficiency: 100.1%
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 0.65 / 0.92
Luminous Opening: Vertical Cylinder (Dia: 0.4' x H: 0.1')
CIE Type: Direct

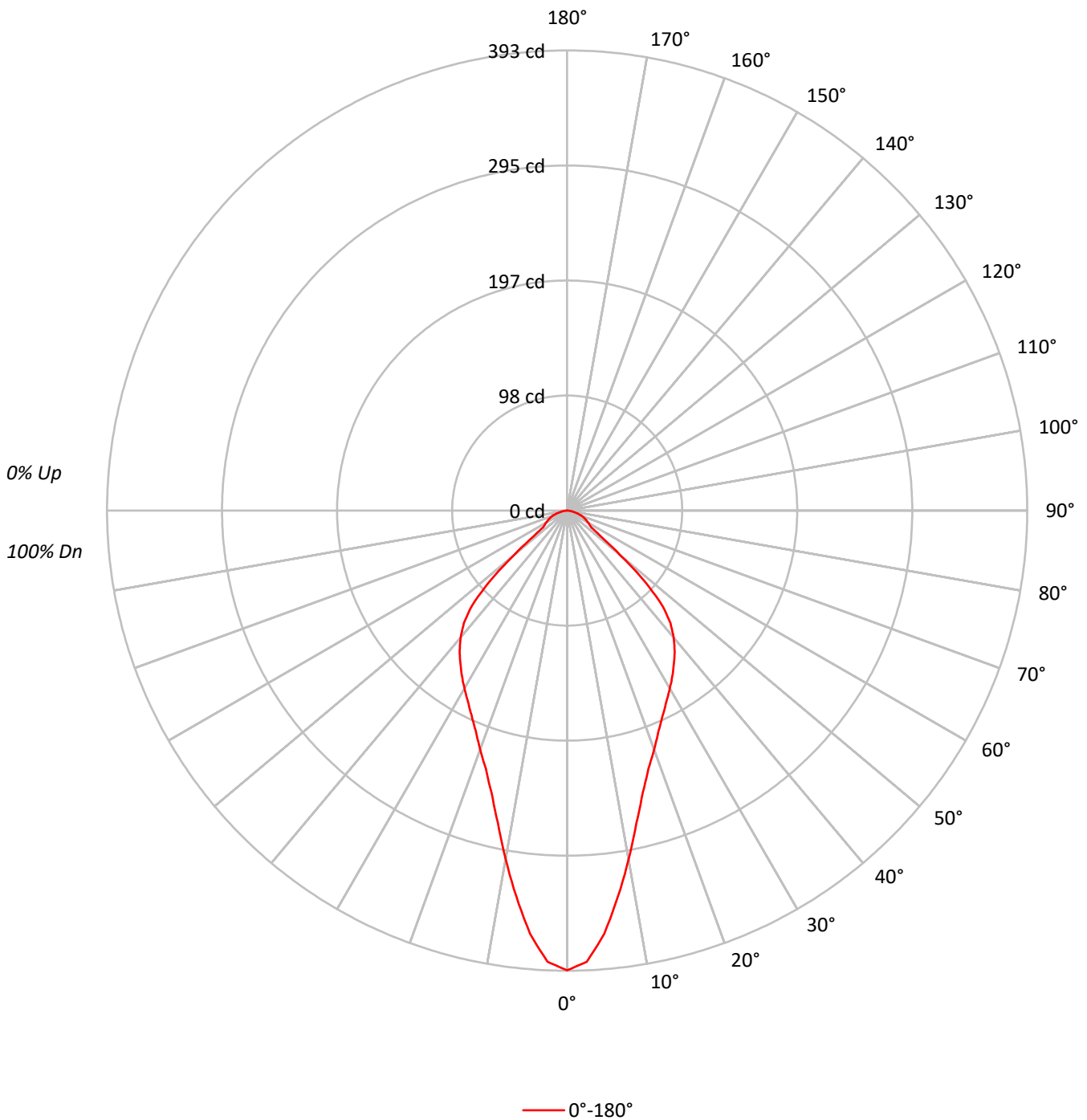
Input Watts (W): 5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	100	97	98	96	94	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	80	76	73	71
4	91	81	74	69	89	80	73	68	78	72	67	75	71	67	73	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	34341
5°	30983
10°	25400
15°	20784
20°	18090
25°	16206
30°	14941
35°	13857
40°	12714
45°	10801
50°	5833
55°	2633
60°	2337
65°	2082
70°	1806
75°	1367
80°	785
85°	408



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	32.6	7.6	7.6
10°-20°	70.6	16.4	16.4
20°-30°	89.3	20.7	20.7
30°-40°	99.4	23.0	23.1
40°-50°	83.8	19.4	19.4
50°-60°	27.5	6.4	6.4
60°-70°	16.9	3.9	3.9
70°-80°	9.2	2.1	2.1
80°-90°	2.1	0.5	0.5
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°	192.6	44.6	44.7
0°-40°	291.9	67.7	67.7
0°-60°	403.3	93.5	93.6
0°-90°	431.5	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°	431.5	100.0	100.1

CANDELA DISTRIBUTION:

0°	Flux
0°	393
5°	363
15°	249
25°	193
35°	159
45°	115
55°	25
65°	17
75°	9
85°	2
90°	0
95°	0
105°	0
115°	0
125°	0
135°	0
145°	0
155°	0
165°	0
175°	0
180°	0



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CANDELA DISTRIBUTION (FULL):

0°	
0°	392.6
2.5°	385.6
5°	362.8
7.5°	332.5
10°	302.2
12.5°	273.2
15°	249.3
17.5°	231.0
20°	217.1
22.5°	203.9
25°	193.1
27.5°	183.6
30°	175.4
32.5°	167.3
35°	159.0
37.5°	150.8
40°	141.4
42.5°	130.6
45°	115.4
47.5°	90.9
50°	59.3
52.5°	36.0
55°	25.2
57.5°	22.7
60°	20.8
62.5°	18.9
65°	17.0
67.5°	15.2
70°	13.3
72.5°	10.8
75°	8.9
77.5°	6.3
80°	4.4
82.5°	3.2
85°	1.9
87.5°	0.6
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)