

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: **ML706840T120DEM – 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: ML706840T120DEM – 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: 452 (1 lamp)
Luminaire Lumens: 452.0 lumens
Efficiency: 100.0%
Efficacy: 90.4 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

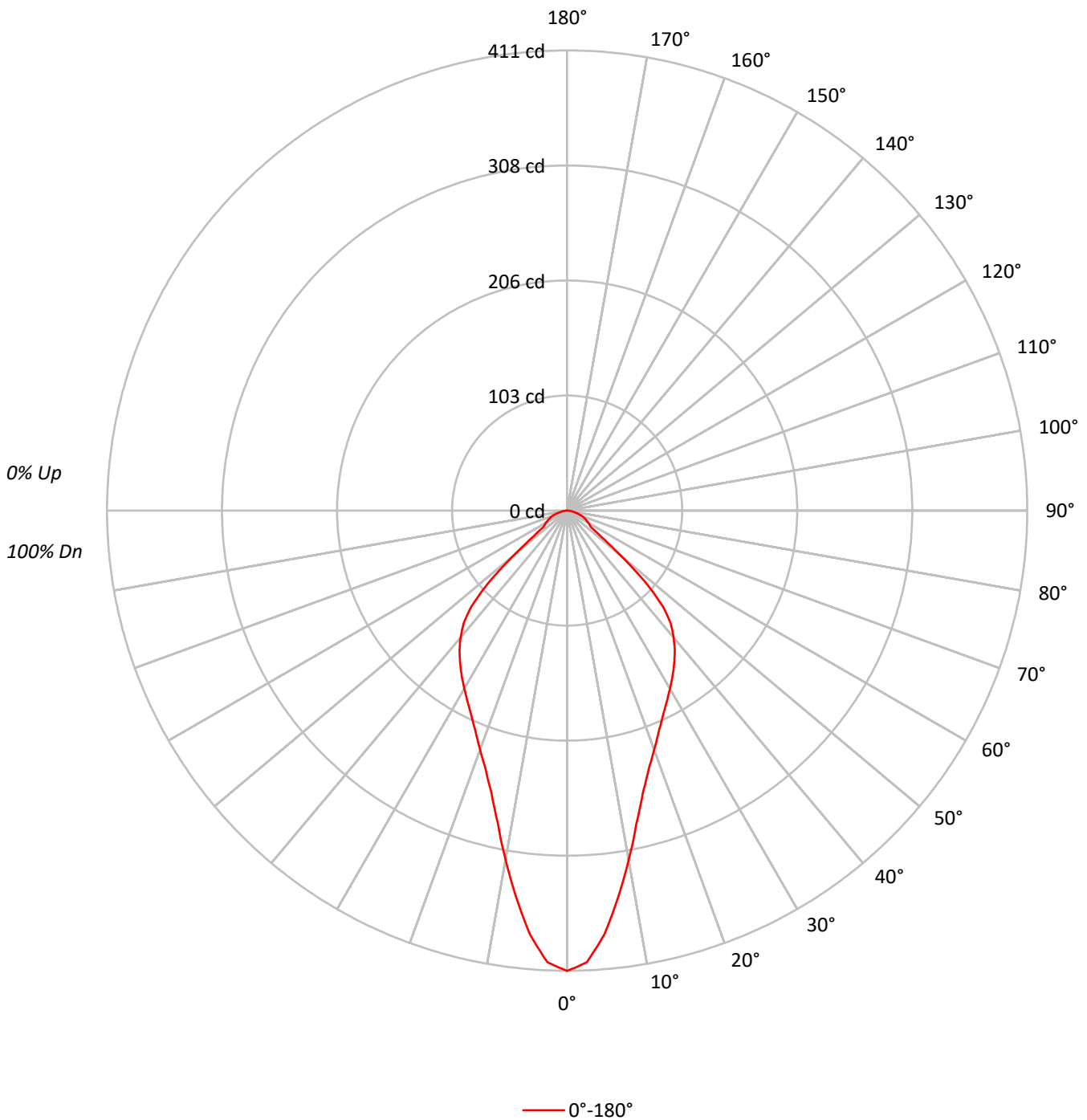
Input Watts (W): 5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	97	98	96	94	94	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	83	77	95	87	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	69	64	60	68	63	59	58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	54	63	58	54	52
7	74	63	56	50	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	46	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°	35967
5°	32461
10°	26611
15°	21768
20°	18949
25°	16978
30°	15648
35°	14519
40°	13316
45°	11316
50°	6109
55°	2759
60°	2449
65°	2180
70°	1887
75°	1428
80°	820
85°	429



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	34.2	7.6	7.6
10°-20°	73.9	16.4	16.4
20°-30°	93.6	20.7	20.7
30°-40°	104.1	23.0	23.0
40°-50°	87.8	19.4	19.4
50°-60°	28.8	6.4	6.4
60°-70°	17.7	3.9	3.9
70°-80°	9.6	2.1	2.1
80°-90°	2.3	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°	201.7	44.6	44.6
0°-40°	305.8	67.7	67.7
0°-60°	422.5	93.5	93.5
0°-90°	452.0	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°	452.0	100.0	100.0

CANDELA DISTRIBUTION:

0°	Flux
0°	411
5°	380
15°	261
25°	202
35°	167
45°	121
55°	26
65°	18
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°	411.2
2.5°	403.9
5°	380.1
7.5°	348.3
10°	316.6
12.5°	286.2
15°	261.1
17.5°	242.0
20°	227.4
22.5°	213.6
25°	202.3
27.5°	192.4
30°	183.7
32.5°	175.2
35°	166.6
37.5°	158.0
40°	148.1
42.5°	136.9
45°	120.9
47.5°	95.2
50°	62.1
52.5°	37.7
55°	26.4
57.5°	23.8
60°	21.8
62.5°	19.8
65°	17.8
67.5°	15.9
70°	13.9
72.5°	11.3
75°	9.3
77.5°	6.6
80°	4.6
82.5°	3.3
85°	2.0
87.5°	0.7
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)