

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: **ML706827T120DEM – 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: ML706827T120DEM – 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: 384 (1 lamp)
Luminaire Lumens: 384.1 lumens
Efficiency: 100.0%
Efficacy: 76.8 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

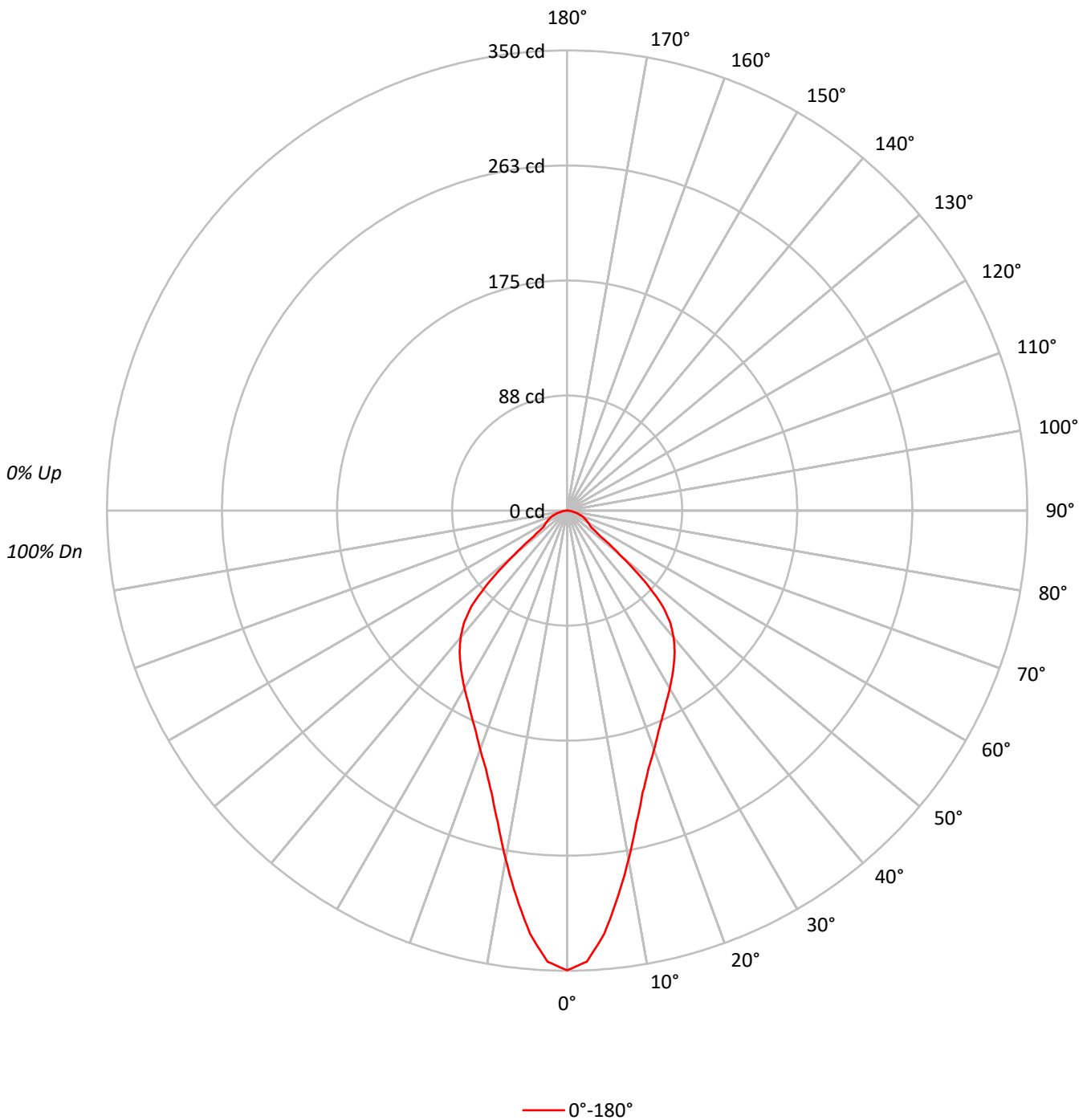
Input Watts (W): 5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	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	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	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	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°	30579
5°	27593
10°	22618
15°	18508
20°	16107
25°	14435
30°	13305
35°	12341
40°	11320
45°	9622
50°	5194
55°	2351
60°	2078
65°	1849
70°	1602
75°	1213
80°	696
85°	365



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	29.1	7.6	7.6
10°-20°	62.8	16.4	16.4
20°-30°	79.6	20.7	20.7
30°-40°	88.5	23.0	23.0
40°-50°	74.6	19.4	19.4
50°-60°	24.5	6.4	6.4
60°-70°	15.0	3.9	3.9
70°-80°	8.2	2.1	2.1
80°-90°	1.9	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°	171.5	44.6	44.7
0°-40°	260.0	67.7	67.7
0°-60°	359.1	93.5	93.5
0°-90°	384.1	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°	384.1	100.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	350	
5°	323	29
15°	222	63
25°	172	80
35°	142	89
45°	103	75
55°	22	24
65°	15	15
75°	8	8
85°	2	2
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°	349.6
2.5°	343.4
5°	323.1
7.5°	296.1
10°	269.1
12.5°	243.3
15°	222.0
17.5°	205.7
20°	193.3
22.5°	181.6
25°	172.0
27.5°	163.5
30°	156.2
32.5°	148.9
35°	141.6
37.5°	134.3
40°	125.9
42.5°	116.3
45°	102.8
47.5°	80.9
50°	52.8
52.5°	32.0
55°	22.5
57.5°	20.2
60°	18.5
62.5°	16.8
65°	15.1
67.5°	13.5
70°	11.8
72.5°	9.6
75°	7.9
77.5°	5.6
80°	3.9
82.5°	2.8
85°	1.7
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)