

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 COMMERCIAL

Report Number: P581653

Luminaire Tested: **HC610D010-HM60525930-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525930-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 976.7 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

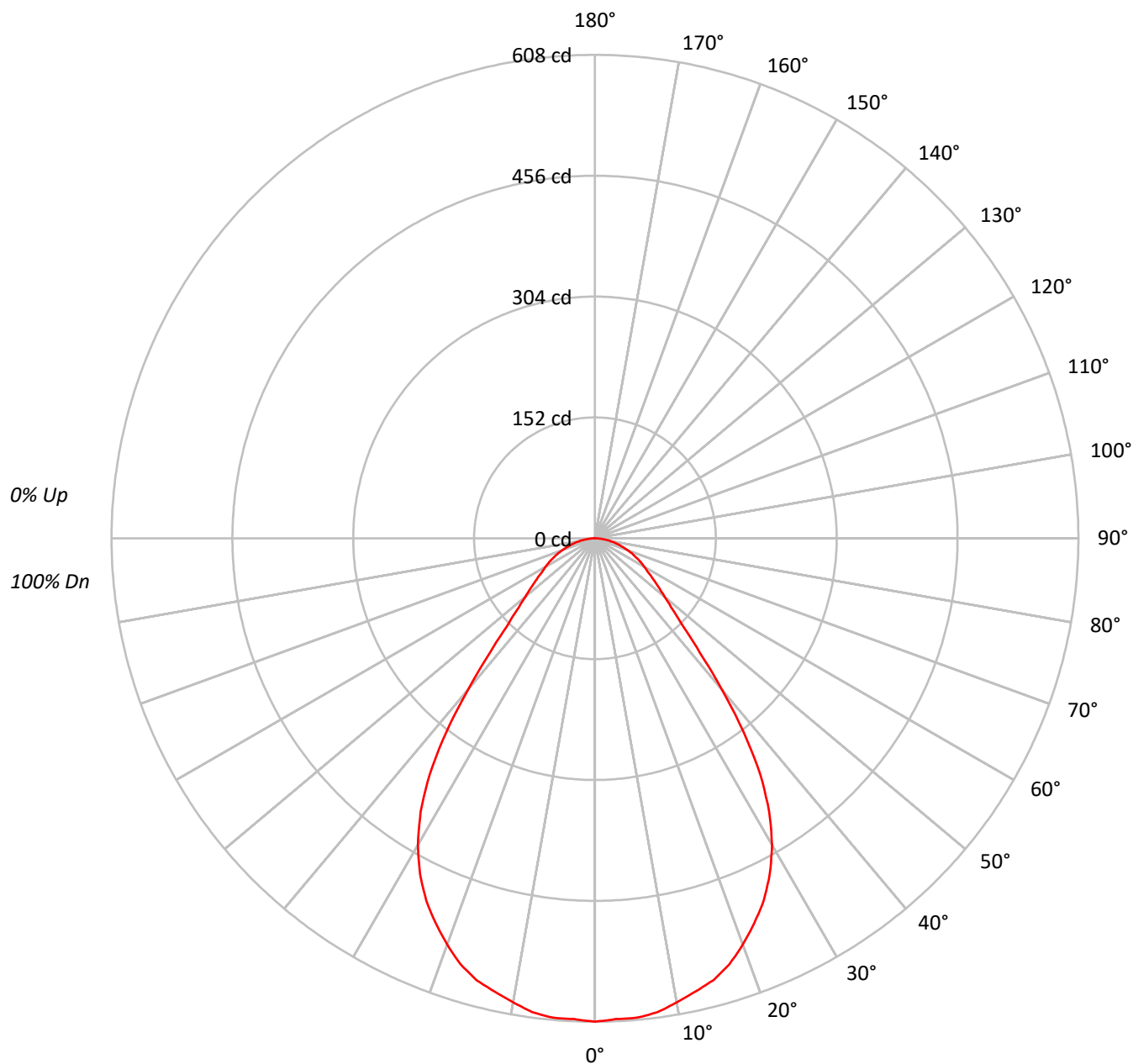
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89		
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78		
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69		
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62		
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56		
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51		
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46		
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39		
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	33331
5°	33309
10°	32988
15°	32651
20°	31724
25°	30389
30°	28194
35°	24266
40°	17712
45°	12141
50°	9748
55°	8506
60°	7839
65°	7459
70°	6972
75°	6524
80°	5904
85°	5032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	5.9
10°-20°	161.6	16.5
20°-30°	229.8	23.5
30°-40°	221.2	22.6
40°-50°	127.3	13.0
50°-60°	80.6	8.3
60°-70°	57.1	5.8
70°-80°	32.6	3.3
80°-90°	9.3	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	448.7	45.9
0°-40°	669.9	68.6
0°-60°	877.8	89.9
0°-90°	976.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	976.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	608	
5°	605	57
15°	575	162
25°	502	230
35°	363	221
45°	157	127
55°	89	81
65°	58	57
75°	31	33
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	608.0
2.5°	605.3
5°	605.3
7.5°	601.3
10°	592.6
12.5°	583.9
15°	575.3
17.5°	561.8
20°	543.8
22.5°	523.8
25°	502.4
27.5°	476.2
30°	445.4
32.5°	408.0
35°	362.6
37.5°	307.0
40°	247.5
42.5°	195.3
45°	156.6
47.5°	131.8
50°	114.3
52.5°	100.3
55°	89.0
57.5°	78.9
60°	71.5
62.5°	64.9
65°	57.5
67.5°	50.8
70°	43.5
72.5°	36.8
75°	30.8
77.5°	24.8
80°	18.7
82.5°	13.4
85°	8.0
87.5°	3.4
90°	0.0



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— 0°-180°







(END OF REPORT)