

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: P581574

Luminaire Tested: **HC610D010-HM60525830-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525830-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1062.1 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

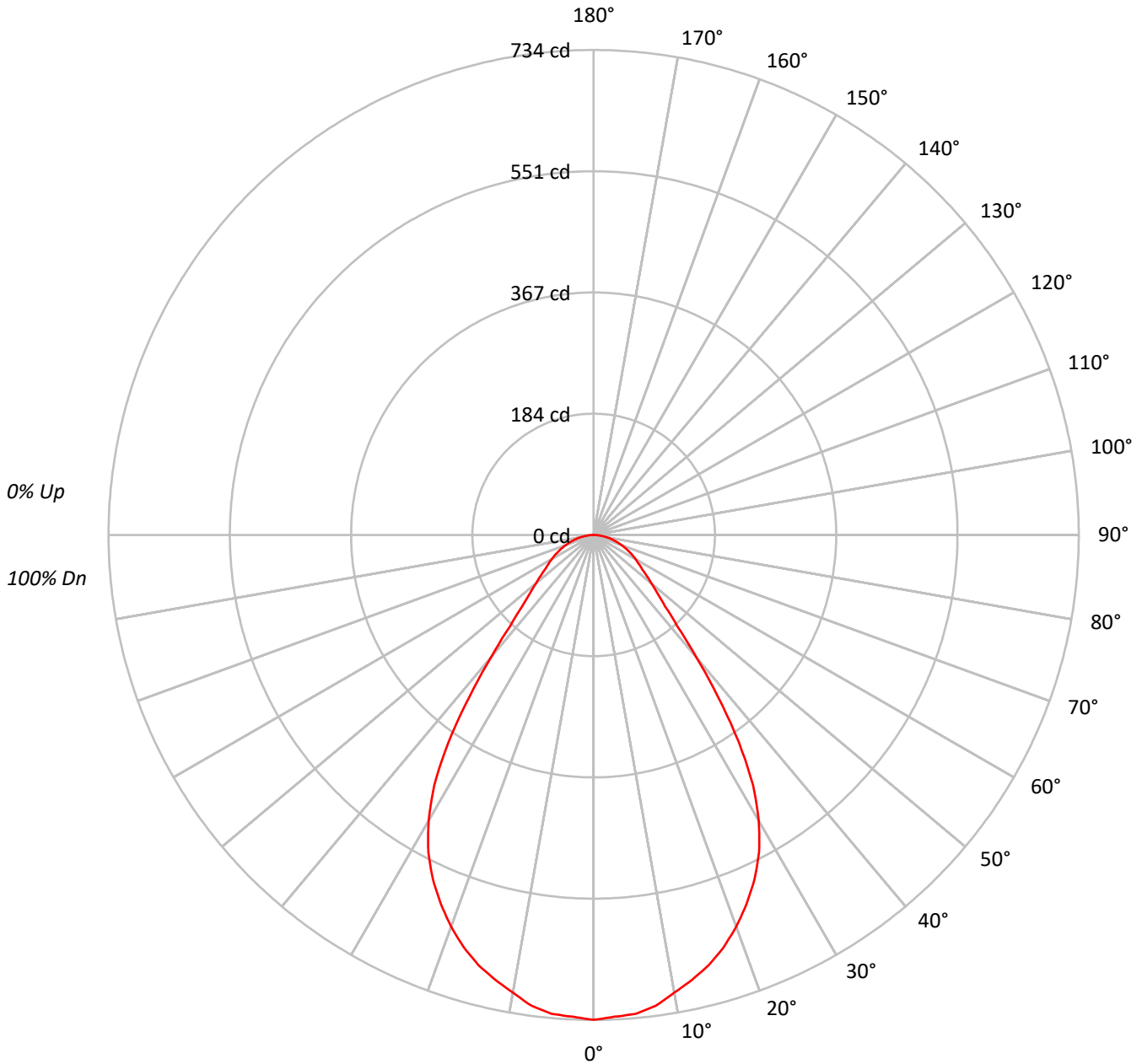
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79			79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57			57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44			44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			41
10	63	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	40233
5°	40040
10°	39155
15°	38241
20°	36800
25°	34804
30°	31631
35°	25598
40°	17261
45°	11862
50°	9722
55°	8506
60°	8048
65°	7588
70°	7133
75°	6778
80°	6156
85°	5409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	6.5
10°-20°	189.2	17.8
20°-30°	262.9	24.8
30°-40°	234.0	22.0
40°-50°	124.2	11.7
50°-60°	81.2	7.6
60°-70°	58.2	5.5
70°-80°	33.8	3.2
80°-90°	9.8	0.9
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°	520.8	49.0
0°-40°	754.8	71.1
0°-60°	960.3	90.4
0°-90°	1062.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1062.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	734	
5°	728	69
15°	674	189
25°	575	263
35°	382	234
45°	153	124
55°	89	81
65°	58	58
75°	32	34
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	733.9
2.5°	729.9
5°	727.6
7.5°	719.0
10°	703.4
12.5°	689.4
15°	673.8
17.5°	654.2
20°	630.8
22.5°	604.3
25°	575.4
27.5°	541.8
30°	499.7
32.5°	449.0
35°	382.5
37.5°	309.1
40°	241.2
42.5°	187.3
45°	153.0
47.5°	130.4
50°	114.0
52.5°	100.7
55°	89.0
57.5°	80.4
60°	73.4
62.5°	66.3
65°	58.5
67.5°	51.5
70°	44.5
72.5°	38.3
75°	32.0
77.5°	25.8
80°	19.5
82.5°	14.0
85°	8.6
87.5°	3.8
90°	0.0



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— 0°-180°







(END OF REPORT)