

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: P581571

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581571  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC610D010-HM60525830-61MDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1077.7 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

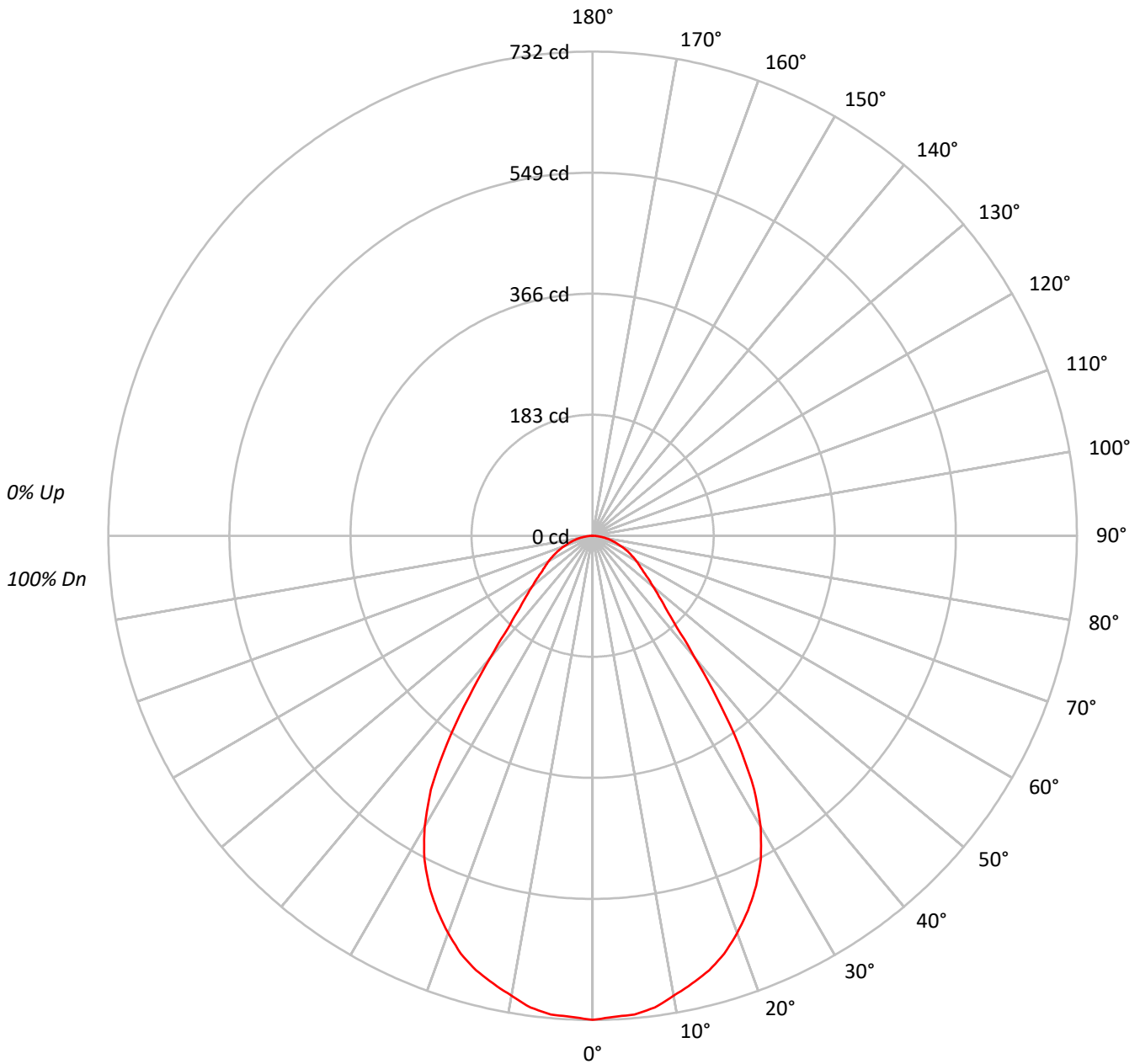
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	40117
5°	39973
10°	39306
15°	38610
20°	37278
25°	35355
30°	32151
35°	25692
40°	17139
45°	12218
50°	10183
55°	8869
60°	8377
65°	7900
70°	7261
75°	6778
80°	6156
85°	5409



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.7	6.4
10°-20°	191.0	17.7
20°-30°	267.0	24.8
30°-40°	235.2	21.8
40°-50°	127.0	11.8
50°-60°	84.9	7.9
60°-70°	60.2	5.6
70°-80°	33.9	3.1
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°	526.7	48.9
0°-40°	761.8	70.7
0°-60°	973.8	90.4
0°-90°	1077.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1077.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	732	
5°	726	69
15°	680	191
25°	584	267
35°	384	235
45°	158	127
55°	93	85
65°	61	60
75°	32	34
85°	9	10
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	731.8
2.5°	728.0
5°	726.4
7.5°	719.4
10°	706.1
12.5°	693.6
15°	680.3
17.5°	662.4
20°	639.0
22.5°	613.3
25°	584.5
27.5°	550.8
30°	507.9
32.5°	454.8
35°	383.9
37.5°	306.7
40°	239.5
42.5°	188.8
45°	157.6
47.5°	136.5
50°	119.4
52.5°	105.3
55°	92.8
57.5°	84.2
60°	76.4
62.5°	68.7
65°	60.9
67.5°	53.1
70°	45.3
72.5°	38.3
75°	32.0
77.5°	25.7
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)