

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: P581664

Luminaire Tested: **HC610D010-HM60525935-61NDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581664  
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-HM60525935-61NDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 958.6 lumens  
Efficiency: N/A  
Efficacy: 96.8 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

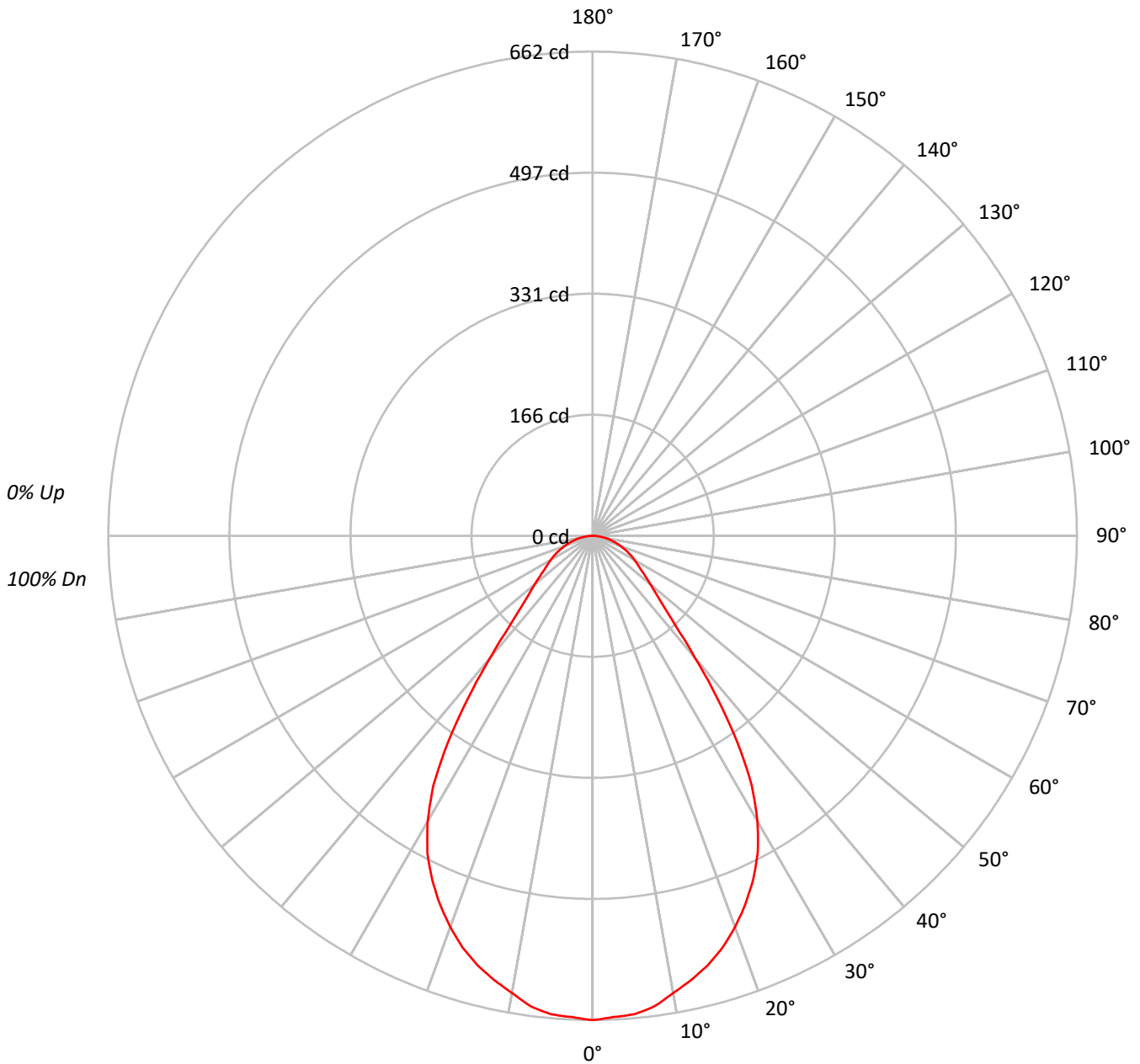
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

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

	0°
0°	36302
5°	36138
10°	35337
15°	34506
20°	33212
25°	31405
30°	28542
35°	23109
40°	15579
45°	10707
50°	8776
55°	7684
60°	7258
65°	6862
70°	6443
75°	6121
80°	5588
85°	4843



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.0	6.5
10°-20°	170.8	17.8
20°-30°	237.2	24.7
30°-40°	211.2	22.0
40°-50°	112.1	11.7
50°-60°	73.4	7.7
60°-70°	52.6	5.5
70°-80°	30.5	3.2
80°-90°	8.9	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°	470.0	49.0
0°-40°	681.2	71.1
0°-60°	866.6	90.4
0°-90°	958.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	958.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	662	
5°	657	62
15°	608	171
25°	519	237
35°	345	211
45°	138	112
55°	80	73
65°	53	53
75°	29	30
85°	8	9
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	662.2
2.5°	658.7
5°	656.7
7.5°	648.9
10°	634.8
12.5°	622.1
15°	608.0
17.5°	590.5
20°	569.3
22.5°	545.3
25°	519.2
27.5°	488.9
30°	450.9
32.5°	405.1
35°	345.3
37.5°	279.0
40°	217.7
42.5°	169.1
45°	138.1
47.5°	117.6
50°	102.9
52.5°	90.9
55°	80.4
57.5°	72.6
60°	66.2
62.5°	59.9
65°	52.9
67.5°	46.5
70°	40.2
72.5°	34.5
75°	28.9
77.5°	23.2
80°	17.7
82.5°	12.7
85°	7.7
87.5°	3.5
90°	0.0



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— 0°-180°







(END OF REPORT)