

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: P579724

Luminaire Tested: **HC410D010-HM40525835-41WDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579724  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC410D010-HM40525835-41WDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1172.7 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.1  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

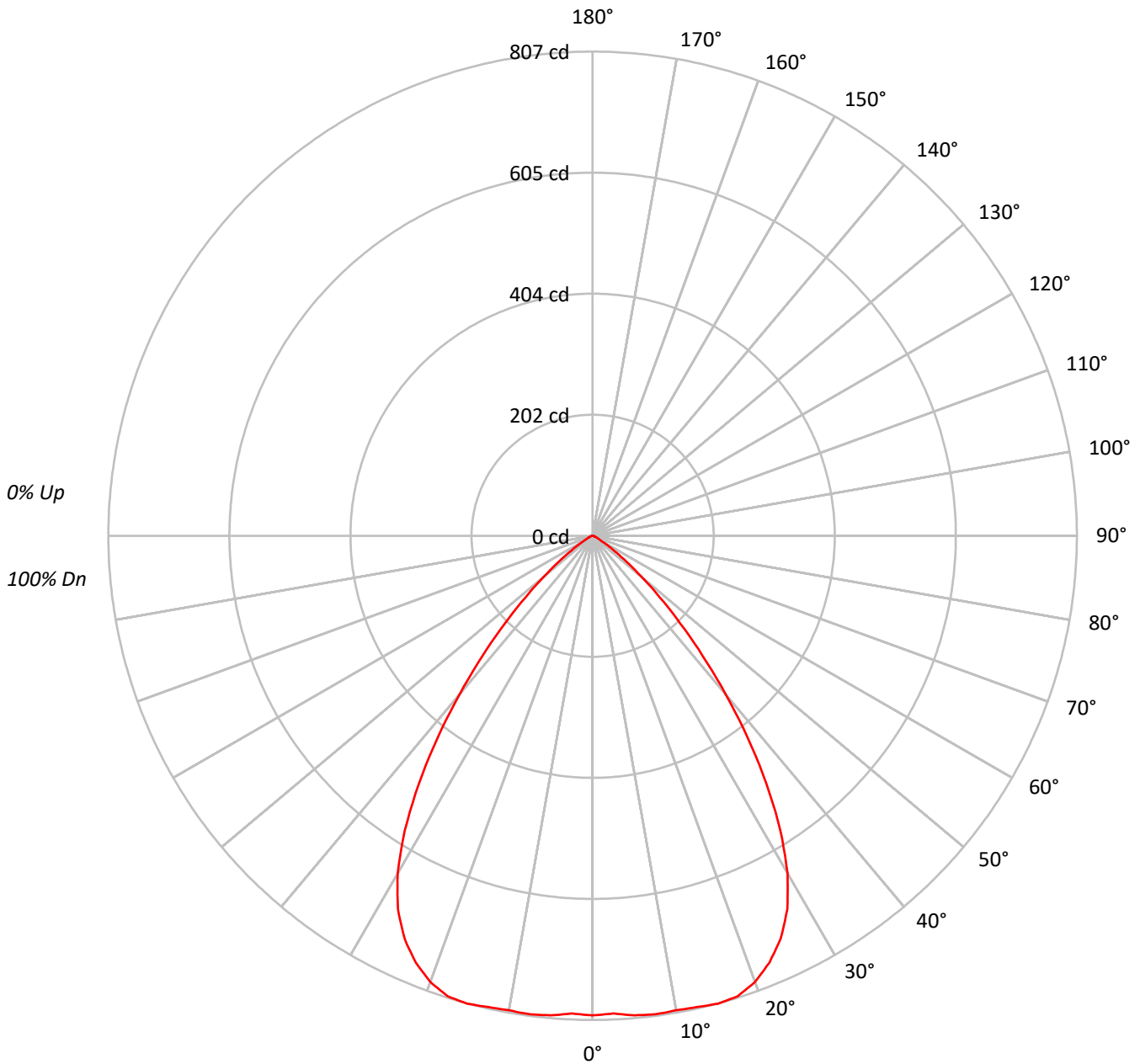
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			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	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92			92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84			84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76			76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69			69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63			63
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58			58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53			53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49			49
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45			45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42			42

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

	0°
0°	98590
5°	99326
10°	100574
15°	103102
20°	103867
25°	100889
30°	92507
35°	76102
40°	55486
45°	36004
50°	20302
55°	9634
60°	3824
65°	2364
70°	1587
75°	1048
80°	497
85°	991



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.6	6.5
10°-20°	227.6	19.4
20°-30°	337.6	28.8
30°-40°	311.8	26.6
40°-50°	162.8	13.9
50°-60°	44.6	3.8
60°-70°	8.6	0.7
70°-80°	2.4	0.2
80°-90°	0.5	0.0
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°	641.9	54.7
0°-40°	953.7	81.3
0°-60°	1161.1	99.0
0°-90°	1172.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1172.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	799	
5°	802	77
15°	807	228
25°	741	338
35°	505	312
45°	206	163
55°	45	45
65°	8	9
75°	2	2
85°	1	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	799.3
2.5°	797.1
5°	802.2
7.5°	804.5
10°	803.0
12.5°	804.5
15°	807.4
17.5°	804.5
20°	791.3
22.5°	769.9
25°	741.3
27.5°	702.3
30°	649.5
32.5°	582.5
35°	505.4
37.5°	424.6
40°	344.6
42.5°	271.1
45°	206.4
47.5°	151.4
50°	105.8
52.5°	70.6
55°	44.8
57.5°	26.4
60°	15.5
62.5°	11.0
65°	8.1
67.5°	5.9
70°	4.4
72.5°	3.0
75°	2.2
77.5°	1.5
80°	0.7
82.5°	0.7
85°	0.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)