

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: P579814

Luminaire Tested: **HC410D010-HM40525940-41WDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579814  
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-HM40525940-41WDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1085.1 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.11  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

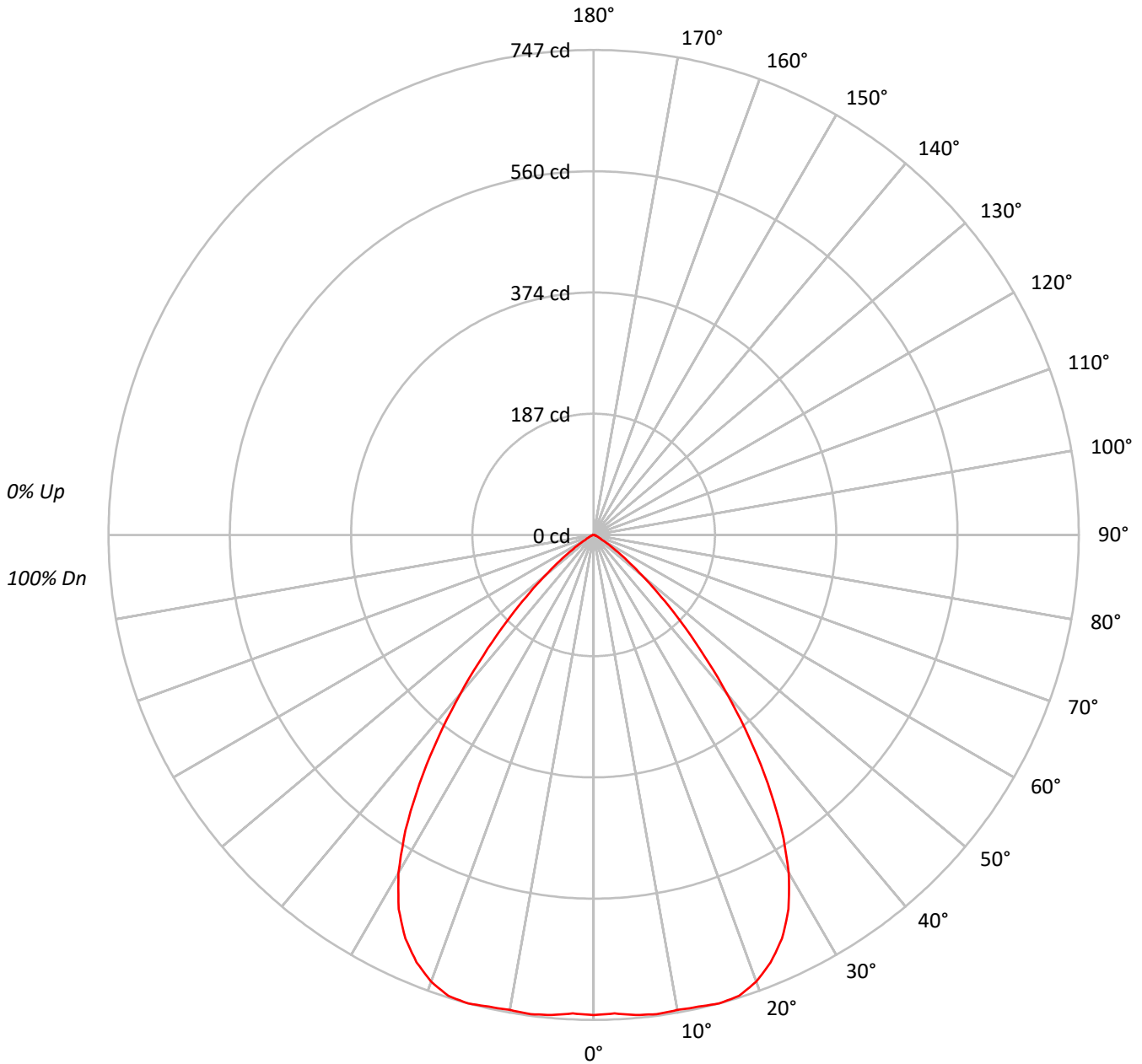
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100
1	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84	84	84	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76	76	76	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69	69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63	63
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58	58	58	58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53	53	53	53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	49
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42	42	42	42

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

	0°
0°	91226
5°	91909
10°	93060
15°	95402
20°	96110
25°	93362
30°	85599
35°	70425
40°	51348
45°	33335
50°	18786
55°	8903
60°	3503
65°	2189
70°	1479
75°	953
80°	497
85°	991



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.9	6.5
10°-20°	210.6	19.4
20°-30°	312.4	28.8
30°-40°	288.6	26.6
40°-50°	150.7	13.9
50°-60°	41.3	3.8
60°-70°	8.0	0.7
70°-80°	2.2	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°	593.9	54.7
0°-40°	882.5	81.3
0°-60°	1074.5	99.0
0°-90°	1085.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1085.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	740	
5°	742	71
15°	747	211
25°	686	312
35°	468	289
45°	191	151
55°	41	41
65°	8	8
75°	2	2
85°	1	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	739.6
2.5°	737.7
5°	742.3
7.5°	744.4
10°	743.0
12.5°	744.4
15°	747.1
17.5°	744.4
20°	732.2
22.5°	712.5
25°	686.0
27.5°	649.9
30°	601.0
32.5°	539.1
35°	467.7
37.5°	393.0
40°	318.9
42.5°	250.8
45°	191.1
47.5°	140.1
50°	97.9
52.5°	65.2
55°	41.4
57.5°	24.5
60°	14.2
62.5°	10.2
65°	7.5
67.5°	5.5
70°	4.1
72.5°	2.7
75°	2.0
77.5°	1.4
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)