

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: P579820

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

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579820  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC410D010-HM40525940-41NDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

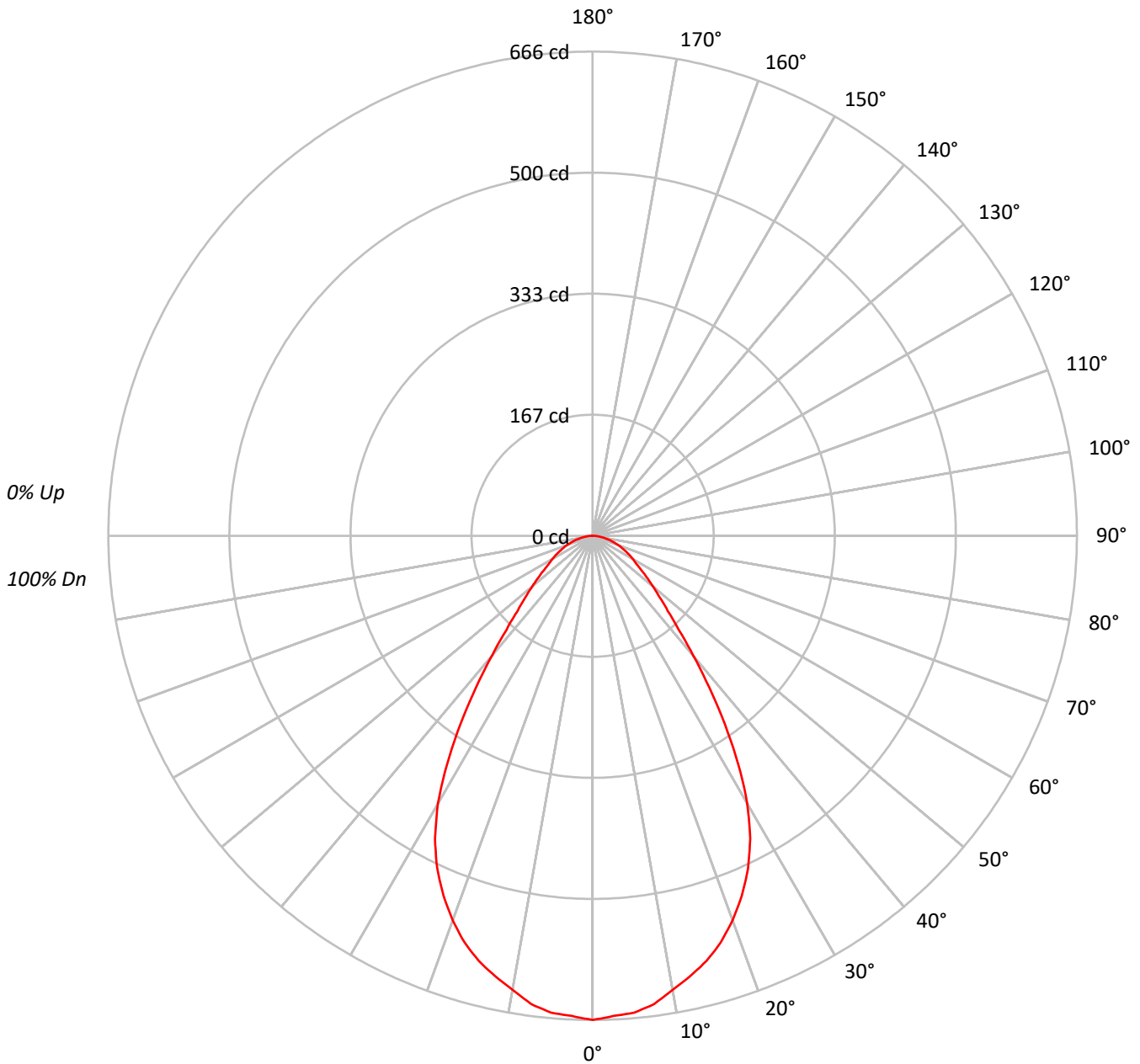
Lumens per Lamp: N/A  
Luminaire Lumens: 934.9 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89	89	89	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79	79	79	79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71	71	71	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64	64	64	64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58	58	58	58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52	52	52	52
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48	48	48	48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44	44	44	44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41	41	41	41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38	38	38	38

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

	0°
0°	82148
5°	81521
10°	79408
15°	77308
20°	73848
25°	68797
30°	60589
35°	47778
40°	34683
45°	25485
50°	20724
55°	17397
60°	15739
65°	14476
70°	13452
75°	12296
80°	11081
85°	9624



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.1	6.6
10°-20°	169.8	18.2
20°-30°	230.2	24.6
30°-40°	197.5	21.1
40°-50°	116.7	12.5
50°-60°	73.9	7.9
60°-70°	49.6	5.3
70°-80°	27.4	2.9
80°-90°	7.7	0.8
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°	462.1	49.4
0°-40°	659.6	70.6
0°-60°	850.2	90.9
0°-90°	934.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	934.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	666	
5°	658	62
15°	605	170
25°	506	230
35°	317	198
45°	146	117
55°	81	74
65°	50	50
75°	26	27
85°	7	8
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	666.0
2.5°	661.2
5°	658.4
7.5°	649.6
10°	634.0
12.5°	620.4
15°	605.4
17.5°	586.4
20°	562.6
22.5°	536.1
25°	505.5
27.5°	469.5
30°	425.4
32.5°	373.0
35°	317.3
37.5°	263.7
40°	215.4
42.5°	175.4
45°	146.1
47.5°	125.1
50°	108.0
52.5°	93.8
55°	80.9
57.5°	70.7
60°	63.8
62.5°	57.1
65°	49.6
67.5°	43.5
70°	37.3
72.5°	31.3
75°	25.8
77.5°	20.4
80°	15.6
82.5°	10.9
85°	6.8
87.5°	2.7
90°	0.0



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— 0°-180°







(END OF REPORT)