

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: P579744

Luminaire Tested: **HC410D010-HM40525840-41MDC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579744  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC410D010-HM40525840-41MDC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1165.0 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.96  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

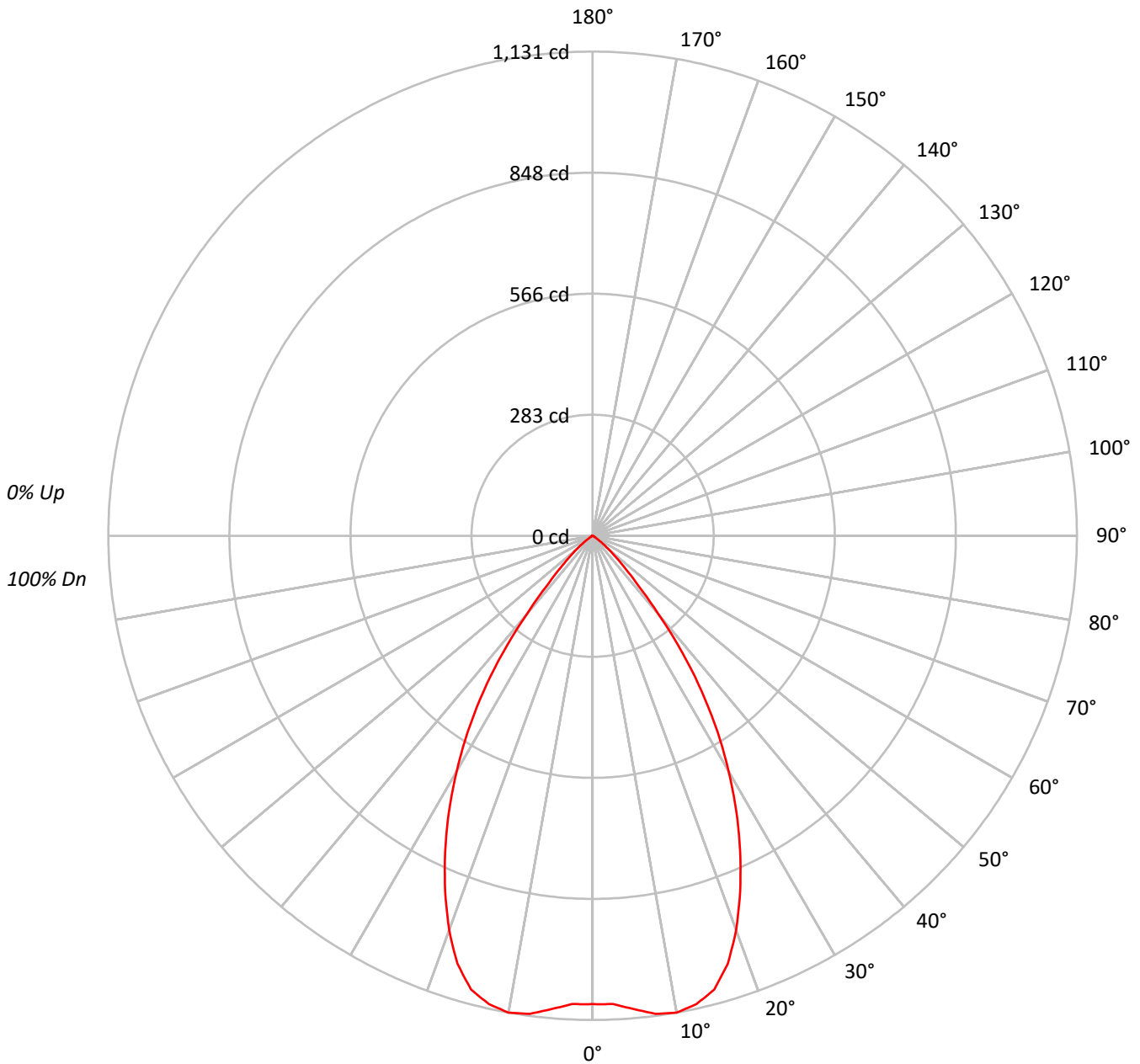
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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																			
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	98	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86																			
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80																			
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74																			
5	91	83	77	72	90	82	76	72	80	75	72	78	74	71	77	73	70	69																			
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64																			
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	60																			
8	78	68	62	58	77	68	62	58	67	61	57	65	61	57	64	60	57	56																			
9	74	64	58	54	73	64	58	54	63	57	54	62	57	54	61	57	53	52																			
10	70	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49																			

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

	0°
0°	134940
5°	137424
10°	141643
15°	140083
20°	128623
25°	110973
30°	90441
35°	66962
40°	38402
45°	18560
50°	8846
55°	3075
60°	1135
65°	671
70°	541
75°	381
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.7	9.2
10°-20°	304.1	26.1
20°-30°	371.4	31.9
30°-40°	273.0	23.4
40°-50°	90.5	7.8
50°-60°	16.0	1.4
60°-70°	2.4	0.2
70°-80°	0.8	0.1
80°-90°	0.0	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°	782.3	67.1
0°-40°	1055.3	90.6
0°-60°	1161.7	99.7
0°-90°	1165.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1165.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1094	
5°	1110	107
15°	1097	304
25°	815	371
35°	445	273
45°	106	90
55°	14	16
65°	2	2
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1094.0
2.5°	1094.8
5°	1109.9
7.5°	1126.5
10°	1130.9
12.5°	1120.4
15°	1097.0
17.5°	1048.7
20°	979.9
22.5°	899.9
25°	815.4
27.5°	727.1
30°	635.0
32.5°	542.8
35°	444.7
37.5°	345.0
40°	238.5
42.5°	157.8
45°	106.4
47.5°	71.0
50°	46.1
52.5°	27.2
55°	14.3
57.5°	6.0
60°	4.6
62.5°	3.1
65°	2.3
67.5°	1.5
70°	1.5
72.5°	0.8
75°	0.8
77.5°	0.8
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)