

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: P583802

Luminaire Tested: **HC810D010-HM80520935-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583802  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC810D010-HM80520935-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" 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: 990.3 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

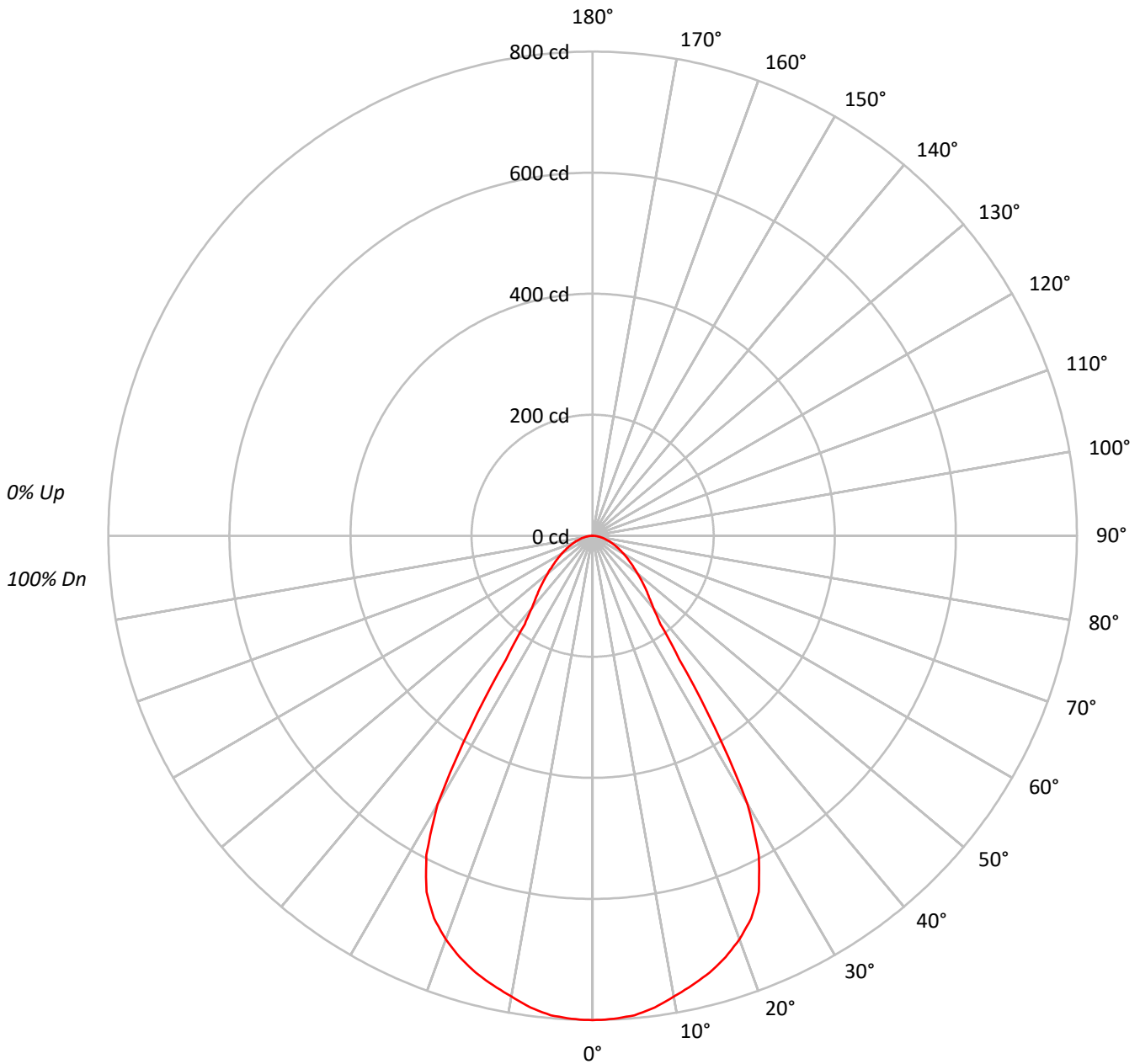
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

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

	0°
0°	24681
5°	24615
10°	24204
15°	23854
20°	23279
25°	22095
30°	18227
35°	9385
40°	6284
45°	5390
50°	4649
55°	4059
60°	3602
65°	3240
70°	2939
75°	2645
80°	2362
85°	2335



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.2	7.6
10°-20°	210.2	21.2
20°-30°	291.2	29.4
30°-40°	174.9	17.7
40°-50°	95.8	9.7
50°-60°	68.0	6.9
60°-70°	44.2	4.5
70°-80°	23.6	2.4
80°-90°	7.0	0.7
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°	576.6	58.2
0°-40°	751.6	75.9
0°-60°	915.4	92.4
0°-90°	990.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	990.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	800	
5°	795	75
15°	747	210
25°	649	291
35°	249	175
45°	124	96
55°	76	68
65°	44	44
75°	22	24
85°	7	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	800.4
2.5°	799.0
5°	795.2
7.5°	786.3
10°	773.0
12.5°	760.5
15°	747.2
17.5°	730.1
20°	709.4
22.5°	684.3
25°	649.4
27.5°	594.7
30°	511.9
32.5°	375.0
35°	249.3
37.5°	184.1
40°	156.1
42.5°	138.4
45°	123.6
47.5°	109.5
50°	96.9
52.5°	85.1
55°	75.5
57.5°	66.6
60°	58.4
62.5°	51.1
65°	44.4
67.5°	37.7
70°	32.6
72.5°	26.7
75°	22.2
77.5°	17.8
80°	13.3
82.5°	9.6
85°	6.6
87.5°	3.0
90°	0.0



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— 0°-180°







(END OF REPORT)