

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: P583708

Luminaire Tested: **HC810D010-HM80520827-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583708  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC810D010-HM80520827-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1282.7 lumens  
Efficiency: N/A  
Efficacy: 129.6 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

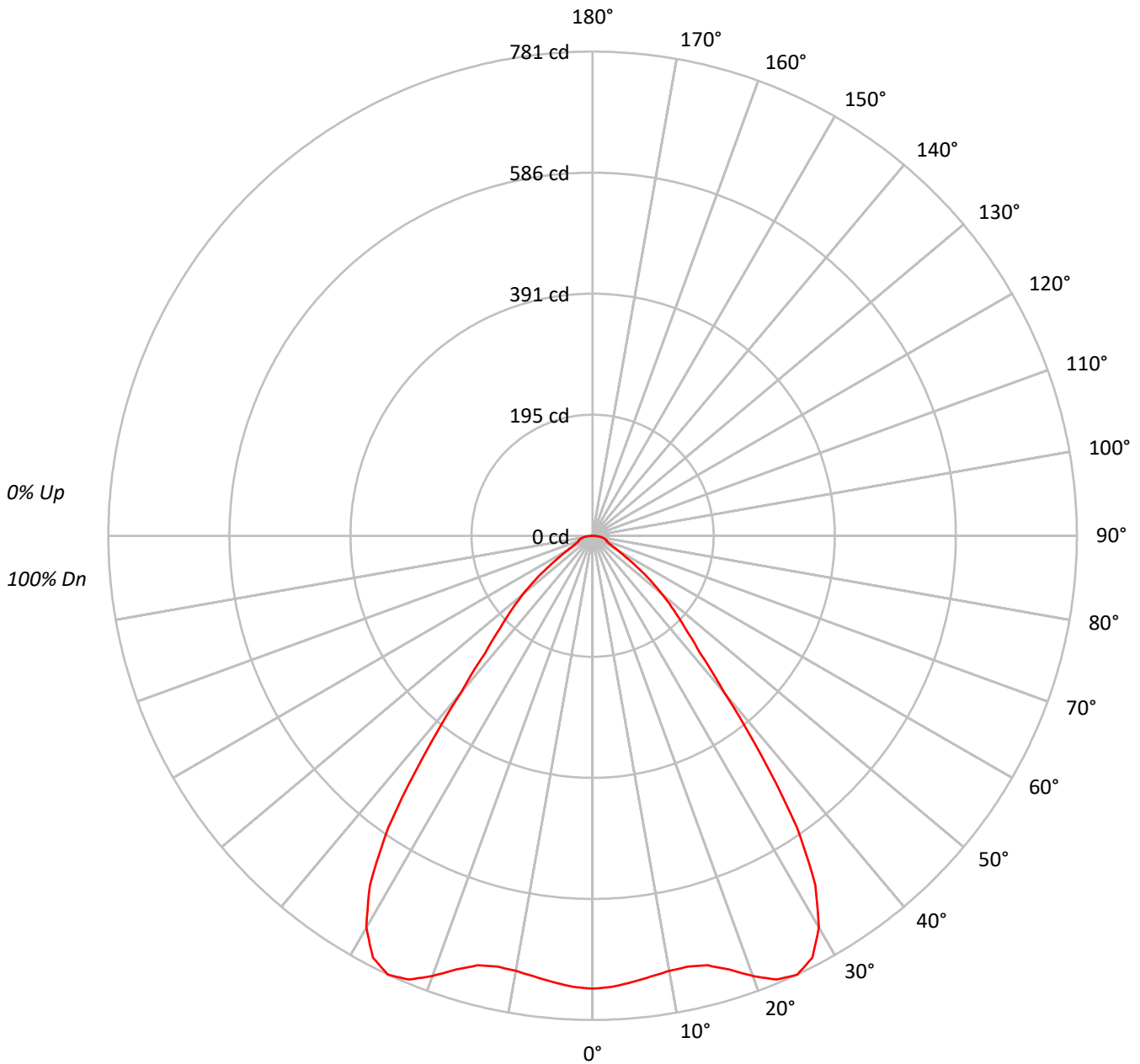
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			

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

	0°
0°	22526
5°	22374
10°	22310
15°	22896
20°	24792
25°	26576
30°	25982
35°	21638
40°	13292
45°	9206
50°	7023
55°	4607
60°	2886
65°	2160
70°	2182
75°	2502
80°	2770
85°	2477



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.7	5.4
10°-20°	205.9	16.1
20°-30°	354.5	27.6
30°-40°	343.4	26.8
40°-50°	169.2	13.2
50°-60°	79.8	6.2
60°-70°	31.5	2.5
70°-80°	21.7	1.7
80°-90°	8.1	0.6
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°	629.0	49.0
0°-40°	972.4	75.8
0°-60°	1221.4	95.2
0°-90°	1282.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1282.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	730	
5°	723	69
15°	717	206
25°	781	354
35°	575	343
45°	211	169
55°	86	80
65°	30	31
75°	21	22
85°	7	8
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	730.5
2.5°	728.2
5°	722.8
7.5°	717.2
10°	712.5
12.5°	711.8
15°	717.2
17.5°	733.6
20°	755.5
22.5°	774.9
25°	781.1
27.5°	767.1
30°	729.7
32.5°	668.2
35°	574.8
37.5°	446.2
40°	330.2
42.5°	256.3
45°	211.1
47.5°	177.5
50°	146.4
52.5°	115.3
55°	85.7
57.5°	62.3
60°	46.8
62.5°	36.7
65°	29.6
67.5°	25.7
70°	24.2
72.5°	22.6
75°	21.0
77.5°	18.6
80°	15.6
82.5°	11.7
85°	7.0
87.5°	3.1
90°	0.0



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— 0°-180°







(END OF REPORT)