

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: P583776

Luminaire Tested: **HC810D010-HM80520927-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583776  
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-HM80520927-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1041.4 lumens  
Efficiency: N/A  
Efficacy: 105.2 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

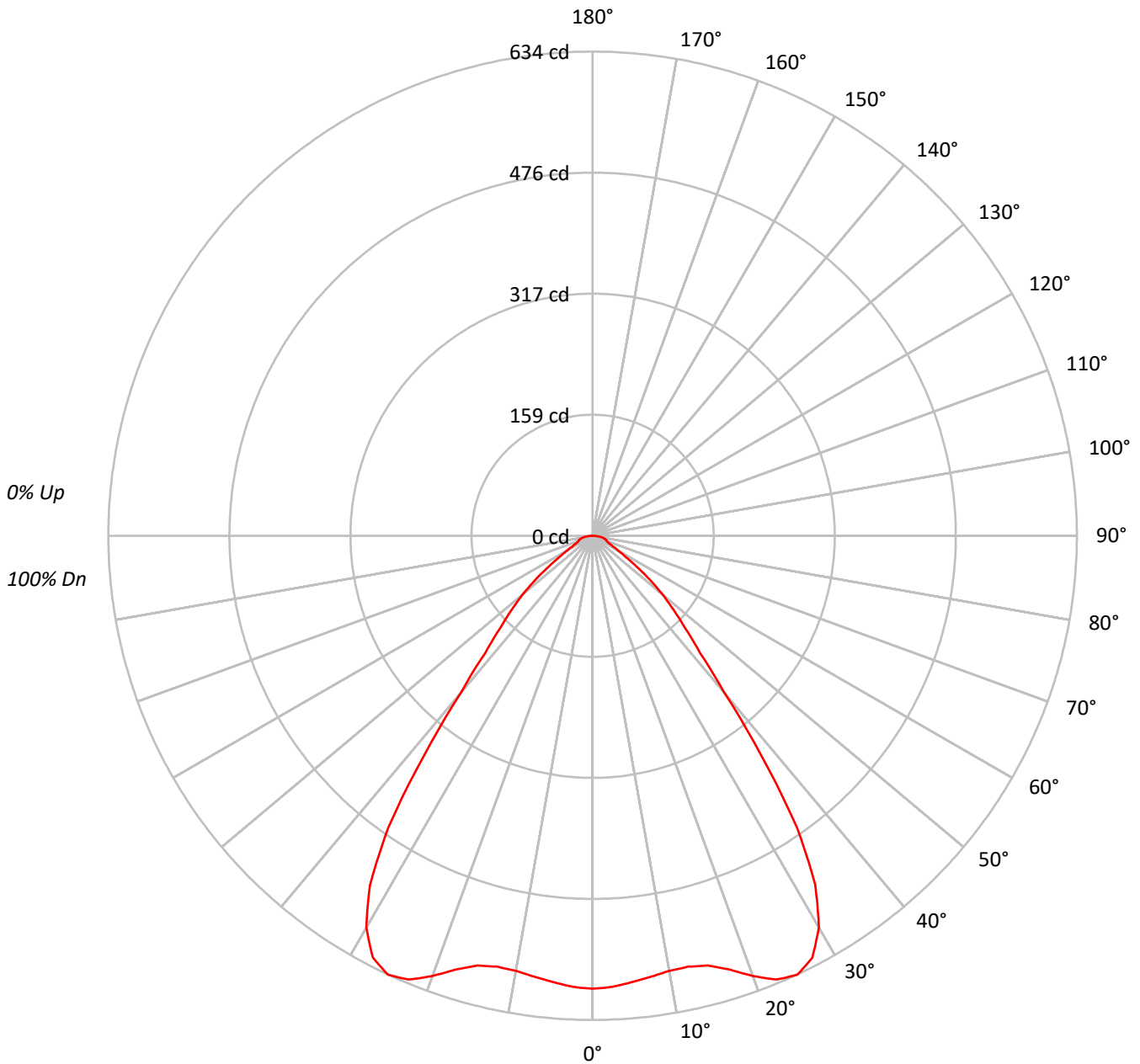
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
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°	18289
5°	18164
10°	18114
15°	18593
20°	20129
25°	21578
30°	21097
35°	17565
40°	10788
45°	7475
50°	5704
55°	3742
60°	2344
65°	1751
70°	1767
75°	2037
80°	2237
85°	1981



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.8	5.4
10°-20°	167.2	16.1
20°-30°	287.8	27.6
30°-40°	278.8	26.8
40°-50°	137.3	13.2
50°-60°	64.8	6.2
60°-70°	25.5	2.5
70°-80°	17.6	1.7
80°-90°	6.5	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°	510.7	49.0
0°-40°	789.5	75.8
0°-60°	991.7	95.2
0°-90°	1041.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1041.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	593	
5°	587	56
15°	582	167
25°	634	288
35°	467	279
45°	171	137
55°	70	65
65°	24	26
75°	17	18
85°	6	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	593.1
2.5°	591.3
5°	586.8
7.5°	582.4
10°	578.5
12.5°	577.9
15°	582.4
17.5°	595.6
20°	613.4
22.5°	629.1
25°	634.2
27.5°	622.9
30°	592.5
32.5°	542.5
35°	466.6
37.5°	362.3
40°	268.0
42.5°	208.1
45°	171.4
47.5°	144.1
50°	118.9
52.5°	93.6
55°	69.6
57.5°	50.6
60°	38.0
62.5°	29.7
65°	24.0
67.5°	20.9
70°	19.6
72.5°	18.4
75°	17.1
77.5°	15.1
80°	12.6
82.5°	9.5
85°	5.6
87.5°	2.5
90°	0.0



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— 0°-180°







(END OF REPORT)