

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: P583623

Luminaire Tested: **HC807D010-HM80520840-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583623  
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: HC807D010-HM80520840-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1145.9 lumens  
Efficiency: N/A  
Efficacy: 143.2 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

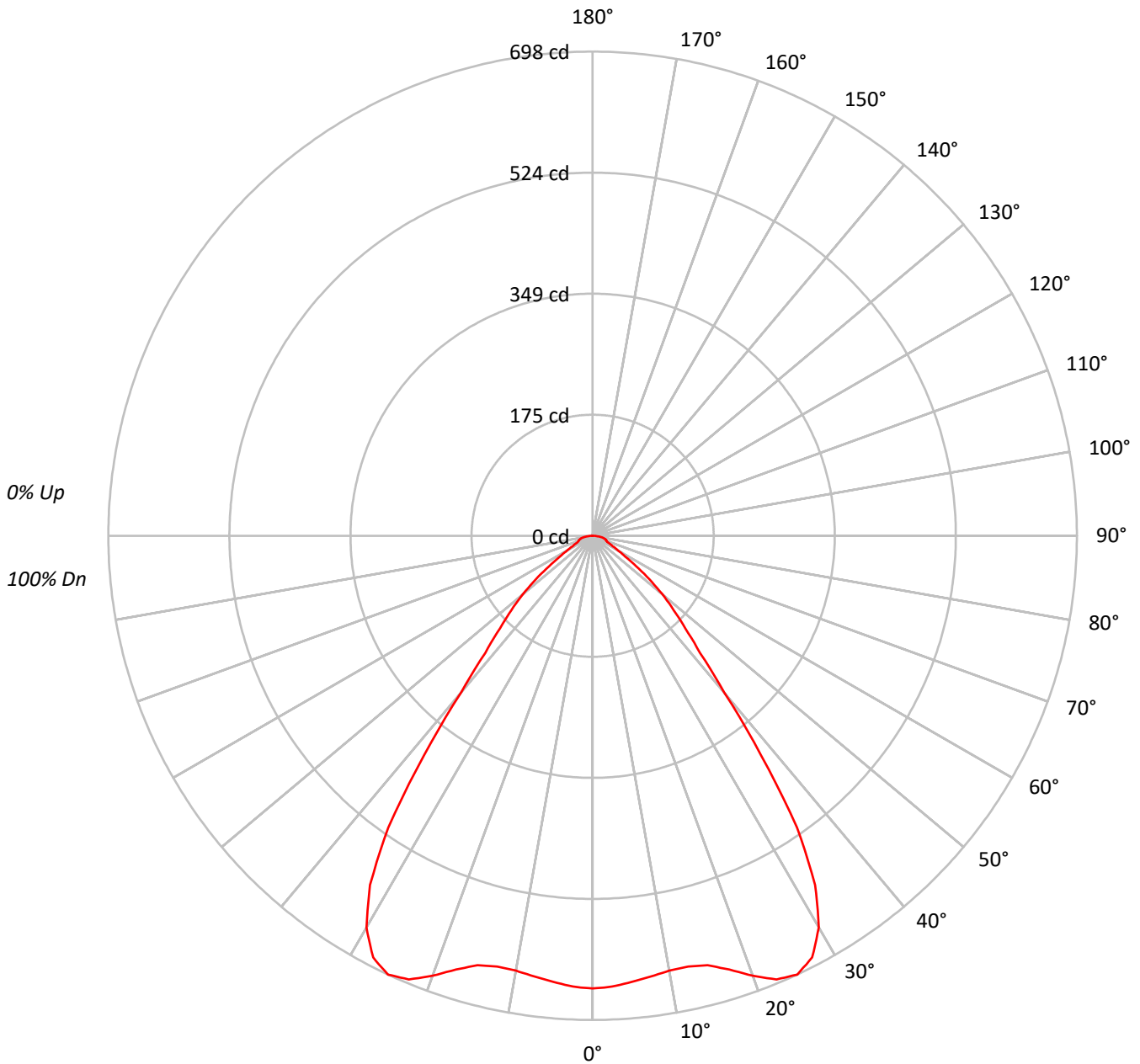
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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°	20124
5°	19987
10°	19933
15°	20457
20°	22147
25°	23745
30°	23212
35°	19330
40°	11875
45°	8225
50°	6280
55°	4113
60°	2572
65°	1926
70°	1938
75°	2240
80°	2468
85°	2194



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.3	5.4
10°-20°	184.0	16.1
20°-30°	316.7	27.6
30°-40°	306.8	26.8
40°-50°	151.1	13.2
50°-60°	71.3	6.2
60°-70°	28.1	2.4
70°-80°	19.4	1.7
80°-90°	7.1	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°	562.0	49.0
0°-40°	868.8	75.8
0°-60°	1091.3	95.2
0°-90°	1145.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1145.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	653	
5°	646	61
15°	641	184
25°	698	317
35°	514	307
45°	189	151
55°	76	71
65°	26	28
75°	19	19
85°	6	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	652.6
2.5°	650.6
5°	645.7
7.5°	640.8
10°	636.6
12.5°	636.0
15°	640.8
17.5°	655.5
20°	674.9
22.5°	692.3
25°	697.9
27.5°	685.3
30°	651.9
32.5°	597.0
35°	513.5
37.5°	398.7
40°	295.0
42.5°	229.0
45°	188.6
47.5°	158.6
50°	130.9
52.5°	103.0
55°	76.5
57.5°	55.7
60°	41.7
62.5°	32.7
65°	26.4
67.5°	22.9
70°	21.5
72.5°	20.2
75°	18.8
77.5°	16.7
80°	13.9
82.5°	10.4
85°	6.2
87.5°	2.7
90°	0.0



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— 0°-180°







(END OF REPORT)