

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: P583680

Luminaire Tested: **HC807D010-HM80520940-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583680  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC807D010-HM80520940-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 906.4 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

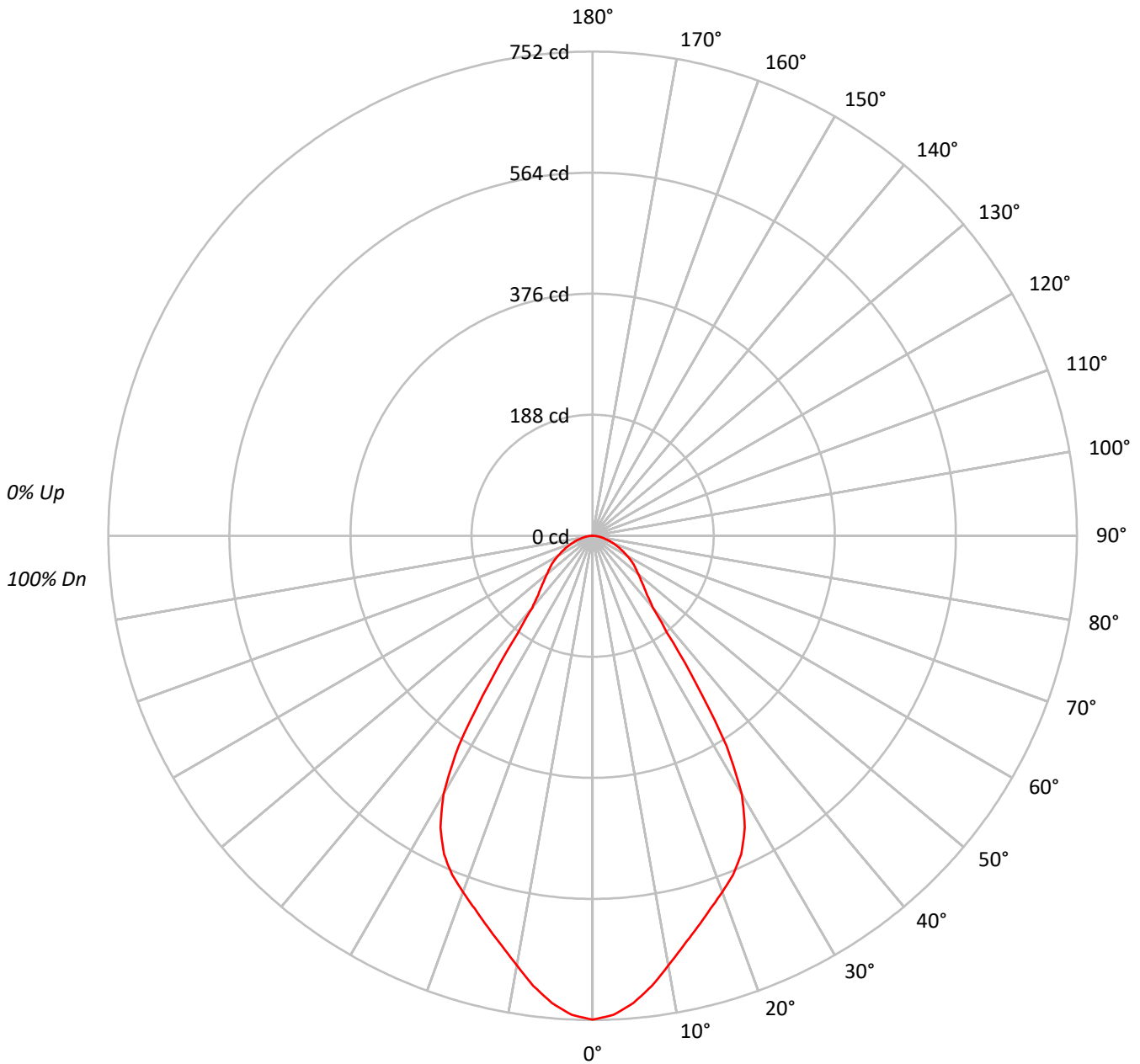
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			

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

	0°
0°	23173
5°	22541
10°	21211
15°	20087
20°	19322
25°	18574
30°	16497
35°	10503
40°	5865
45°	4910
50°	4433
55°	4177
60°	3811
65°	3437
70°	3038
75°	2693
80°	2397
85°	2158



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.9	7.5
10°-20°	177.4	19.6
20°-30°	247.5	27.3
30°-40°	178.1	19.7
40°-50°	88.3	9.7
50°-60°	69.1	7.6
60°-70°	46.8	5.2
70°-80°	24.3	2.7
80°-90°	7.0	0.8
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°	492.9	54.4
0°-40°	671.0	74.0
0°-60°	828.3	91.4
0°-90°	906.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	906.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	752	
5°	728	68
15°	629	177
25°	546	248
35°	279	178
45°	113	88
55°	78	69
65°	47	47
75°	23	24
85°	6	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	751.5
2.5°	744.8
5°	728.2
7.5°	705.1
10°	677.4
12.5°	651.8
15°	629.2
17.5°	607.7
20°	588.8
22.5°	569.8
25°	545.9
27.5°	511.6
30°	463.3
32.5°	387.4
35°	279.0
37.5°	190.4
40°	145.7
42.5°	125.5
45°	112.6
47.5°	101.6
50°	92.4
52.5°	84.5
55°	77.7
57.5°	69.8
60°	61.8
62.5°	53.9
65°	47.1
67.5°	40.4
70°	33.7
72.5°	28.2
75°	22.6
77.5°	17.8
80°	13.5
82.5°	9.8
85°	6.1
87.5°	3.1
90°	0.0



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— 0°-180°







(END OF REPORT)