

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: P583436

Luminaire Tested: **HC805D010-HM80520827-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583436  
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: HC805D010-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: 781.3 lumens  
Efficiency: N/A  
Efficacy: 130.2 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

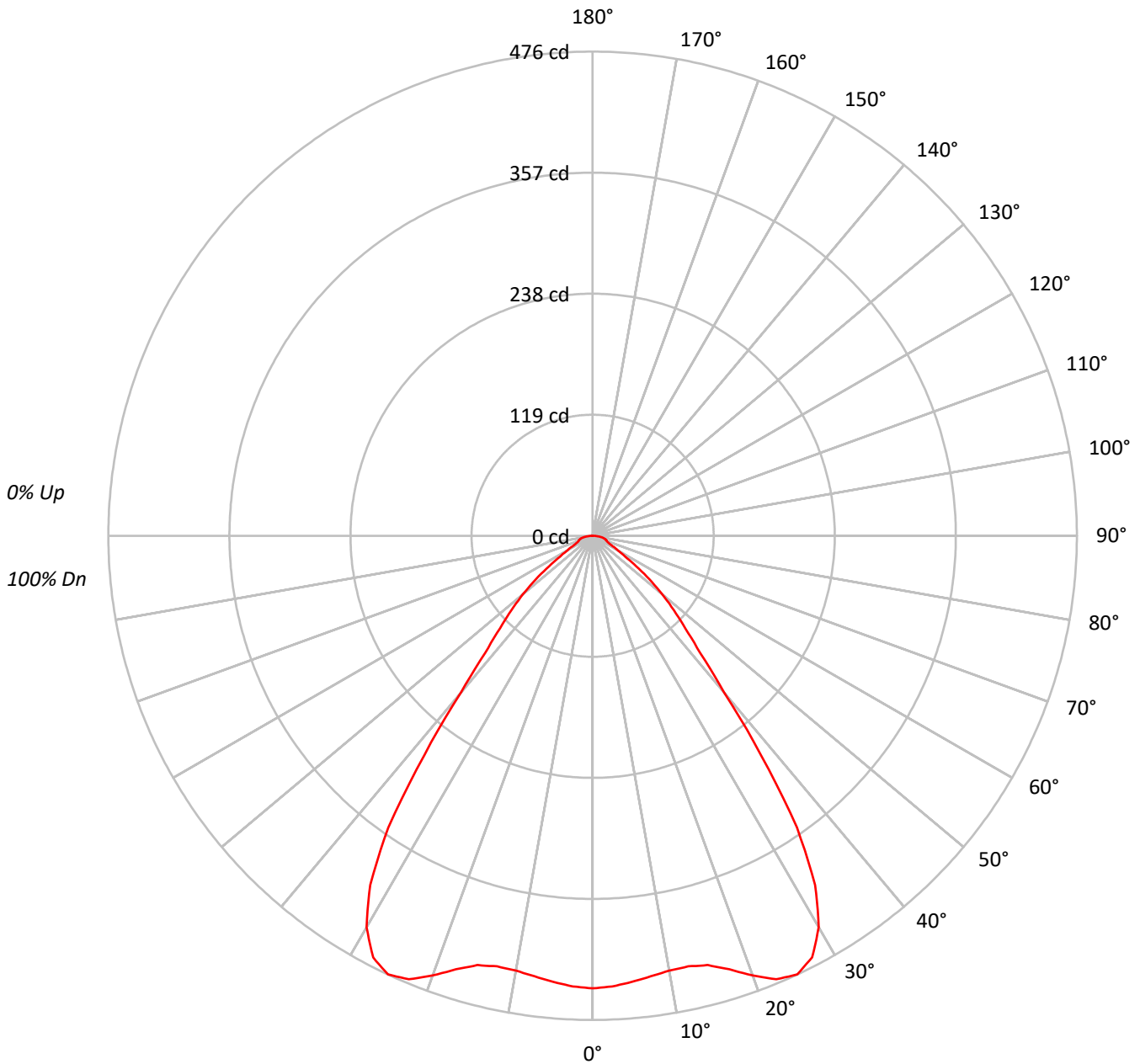
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	13719
5°	13629
10°	13589
15°	13948
20°	15098
25°	16189
30°	15824
35°	13179
40°	8095
45°	5608
50°	4279
55°	2806
60°	1758
65°	1321
70°	1325
75°	1525
80°	1687
85°	1521



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.8	5.4
10°-20°	125.4	16.1
20°-30°	215.9	27.6
30°-40°	209.2	26.8
40°-50°	103.1	13.2
50°-60°	48.6	6.2
60°-70°	19.2	2.5
70°-80°	13.2	1.7
80°-90°	4.9	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°	383.1	49.0
0°-40°	592.3	75.8
0°-60°	744.0	95.2
0°-90°	781.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	781.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	445	
5°	440	42
15°	437	125
25°	476	216
35°	350	209
45°	129	103
55°	52	49
65°	18	19
75°	13	13
85°	4	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	444.9
2.5°	443.5
5°	440.3
7.5°	436.9
10°	434.0
12.5°	433.6
15°	436.9
17.5°	446.8
20°	460.1
22.5°	472.0
25°	475.8
27.5°	467.3
30°	444.4
32.5°	407.0
35°	350.1
37.5°	271.8
40°	201.1
42.5°	156.1
45°	128.6
47.5°	108.2
50°	89.2
52.5°	70.3
55°	52.2
57.5°	37.9
60°	28.5
62.5°	22.3
65°	18.1
67.5°	15.7
70°	14.7
72.5°	13.8
75°	12.8
77.5°	11.4
80°	9.5
82.5°	7.1
85°	4.3
87.5°	1.9
90°	0.0



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— 0°-180°







(END OF REPORT)