

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: P583425

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583425  
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: HC805D010-HM80520827-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 702.6 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

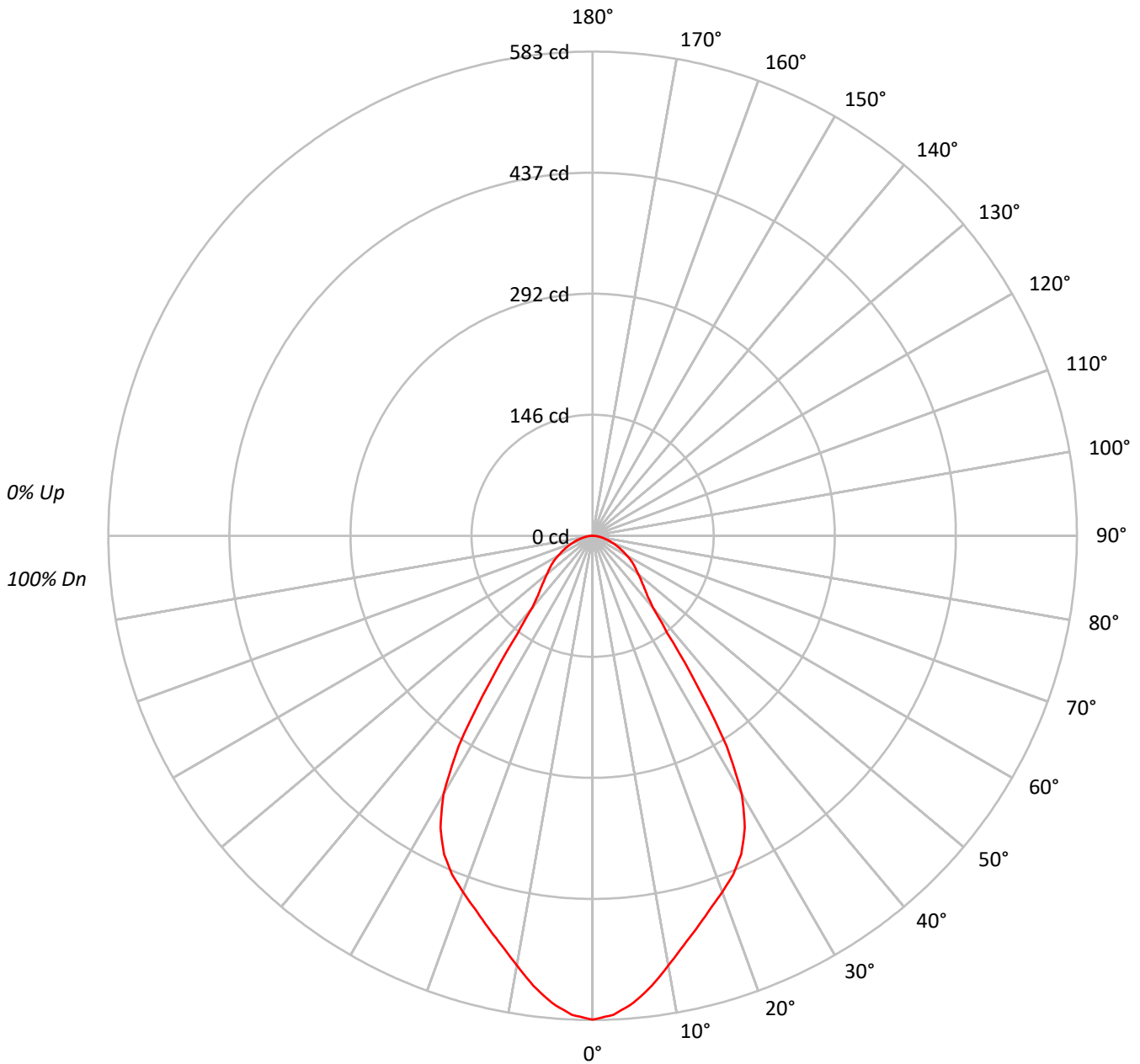
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	17965
5°	17474
10°	16442
15°	15569
20°	14977
25°	14396
30°	12786
35°	8142
40°	4545
45°	3807
50°	3435
55°	3236
60°	2954
65°	2663
70°	2353
75°	2097
80°	1847
85°	1698



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.6	7.5
10°-20°	137.5	19.6
20°-30°	191.9	27.3
30°-40°	138.1	19.7
40°-50°	68.4	9.7
50°-60°	53.5	7.6
60°-70°	36.3	5.2
70°-80°	18.8	2.7
80°-90°	5.4	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°	382.0	54.4
0°-40°	520.1	74.0
0°-60°	642.1	91.4
0°-90°	702.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	702.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	583	
5°	564	53
15°	488	138
25°	423	192
35°	216	138
45°	87	68
55°	60	54
65°	36	36
75°	18	19
85°	5	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	582.6
2.5°	577.3
5°	564.5
7.5°	546.6
10°	525.1
12.5°	505.3
15°	487.7
17.5°	471.0
20°	456.4
22.5°	441.7
25°	423.1
27.5°	396.6
30°	359.1
32.5°	300.3
35°	216.3
37.5°	147.6
40°	112.9
42.5°	97.2
45°	87.3
47.5°	78.8
50°	71.6
52.5°	65.5
55°	60.2
57.5°	54.1
60°	47.9
62.5°	41.8
65°	36.5
67.5°	31.4
70°	26.1
72.5°	21.8
75°	17.6
77.5°	13.8
80°	10.4
82.5°	7.5
85°	4.8
87.5°	2.4
90°	0.0



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— 0°-180°







(END OF REPORT)