

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: P583493

Luminaire Tested: **HC805D010-HM80520927-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583493  
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-HM80520927-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 570.4 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

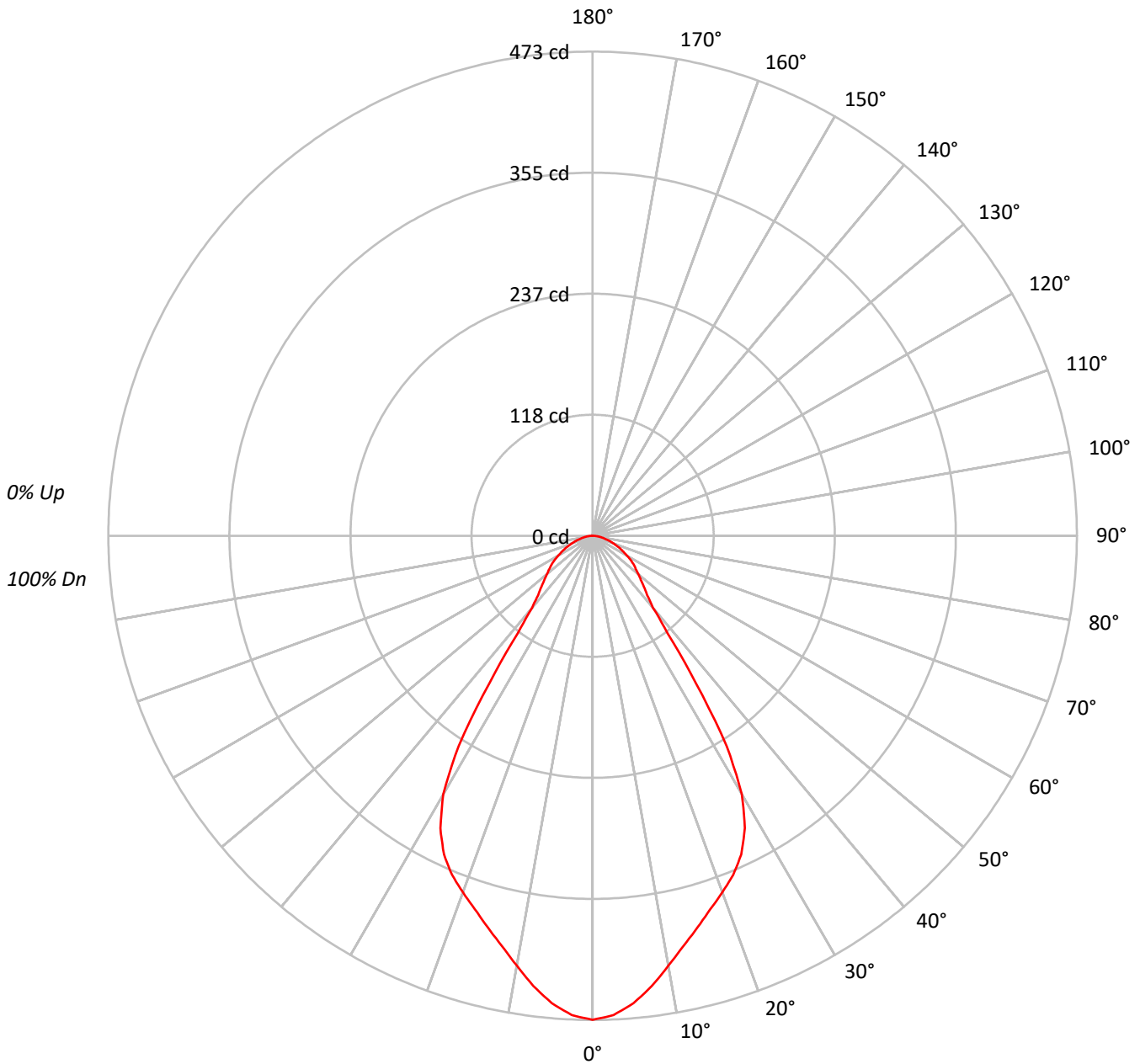
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	14582
5°	14186
10°	13351
15°	12642
20°	12161
25°	11687
30°	10383
35°	6610
40°	3691
45°	3092
50°	2792
55°	2634
60°	2399
65°	2167
70°	1911
75°	1692
80°	1509
85°	1344



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.7	7.5
10°-20°	111.7	19.6
20°-30°	155.8	27.3
30°-40°	112.1	19.7
40°-50°	55.6	9.7
50°-60°	43.5	7.6
60°-70°	29.4	5.2
70°-80°	15.3	2.7
80°-90°	4.4	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°	310.2	54.4
0°-40°	422.3	74.0
0°-60°	521.3	91.4
0°-90°	570.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	570.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	473	
5°	458	43
15°	396	112
25°	344	156
35°	176	112
45°	71	56
55°	49	43
65°	30	29
75°	14	15
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	472.9
2.5°	468.7
5°	458.3
7.5°	443.7
10°	426.4
12.5°	410.2
15°	396.0
17.5°	382.4
20°	370.6
22.5°	358.6
25°	343.5
27.5°	322.0
30°	291.6
32.5°	243.8
35°	175.6
37.5°	119.8
40°	91.7
42.5°	79.0
45°	70.9
47.5°	63.9
50°	58.2
52.5°	53.1
55°	49.0
57.5°	43.9
60°	38.9
62.5°	33.9
65°	29.7
67.5°	25.4
70°	21.2
72.5°	17.7
75°	14.2
77.5°	11.1
80°	8.5
82.5°	6.1
85°	3.8
87.5°	1.9
90°	0.0



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— 0°-180°







(END OF REPORT)