

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: P593456

Luminaire Tested: **HC805D010-HM80520850-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593456  
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-HM80520850-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 781.0 lumens  
Efficiency: N/A  
Efficacy: 130.2 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

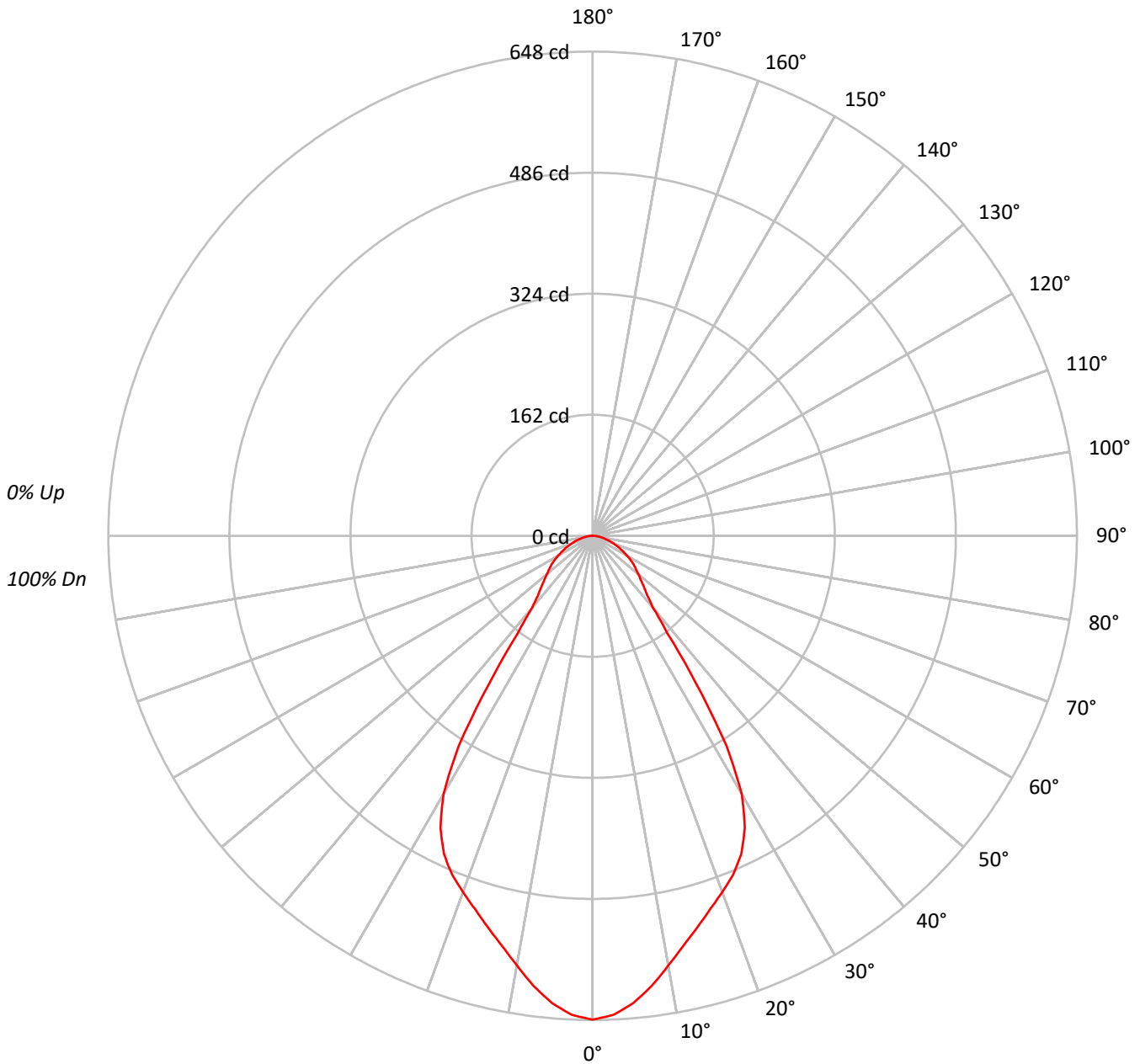
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	19970
5°	19427
10°	18280
15°	17306
20°	16647
25°	16005
30°	14214
35°	9053
40°	5056
45°	4234
50°	3819
55°	3602
60°	3287
65°	2962
70°	2615
75°	2323
80°	2060
85°	1875



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.5	7.5
10°-20°	152.9	19.6
20°-30°	213.3	27.3
30°-40°	153.5	19.7
40°-50°	76.1	9.7
50°-60°	59.5	7.6
60°-70°	40.3	5.2
70°-80°	20.9	2.7
80°-90°	6.0	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°	424.7	54.4
0°-40°	578.2	74.0
0°-60°	713.8	91.4
0°-90°	781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	781.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	648	
5°	628	59
15°	542	153
25°	470	213
35°	240	153
45°	97	76
55°	67	60
65°	41	40
75°	20	21
85°	5	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	647.6
2.5°	641.8
5°	627.6
7.5°	607.5
10°	583.8
12.5°	561.6
15°	542.1
17.5°	523.7
20°	507.3
22.5°	491.0
25°	470.4
27.5°	440.9
30°	399.2
32.5°	333.8
35°	240.5
37.5°	164.0
40°	125.6
42.5°	108.1
45°	97.1
47.5°	87.5
50°	79.6
52.5°	72.8
55°	67.0
57.5°	60.1
60°	53.3
62.5°	46.4
65°	40.6
67.5°	34.8
70°	29.0
72.5°	24.3
75°	19.5
77.5°	15.3
80°	11.6
82.5°	8.4
85°	5.3
87.5°	2.6
90°	0.0



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— 0°-180°







(END OF REPORT)