

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: P583459

Luminaire Tested: **HC805D010-HM80520835-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583459  
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-HM80520835-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 727.0 lumens  
Efficiency: N/A  
Efficacy: 121.2 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

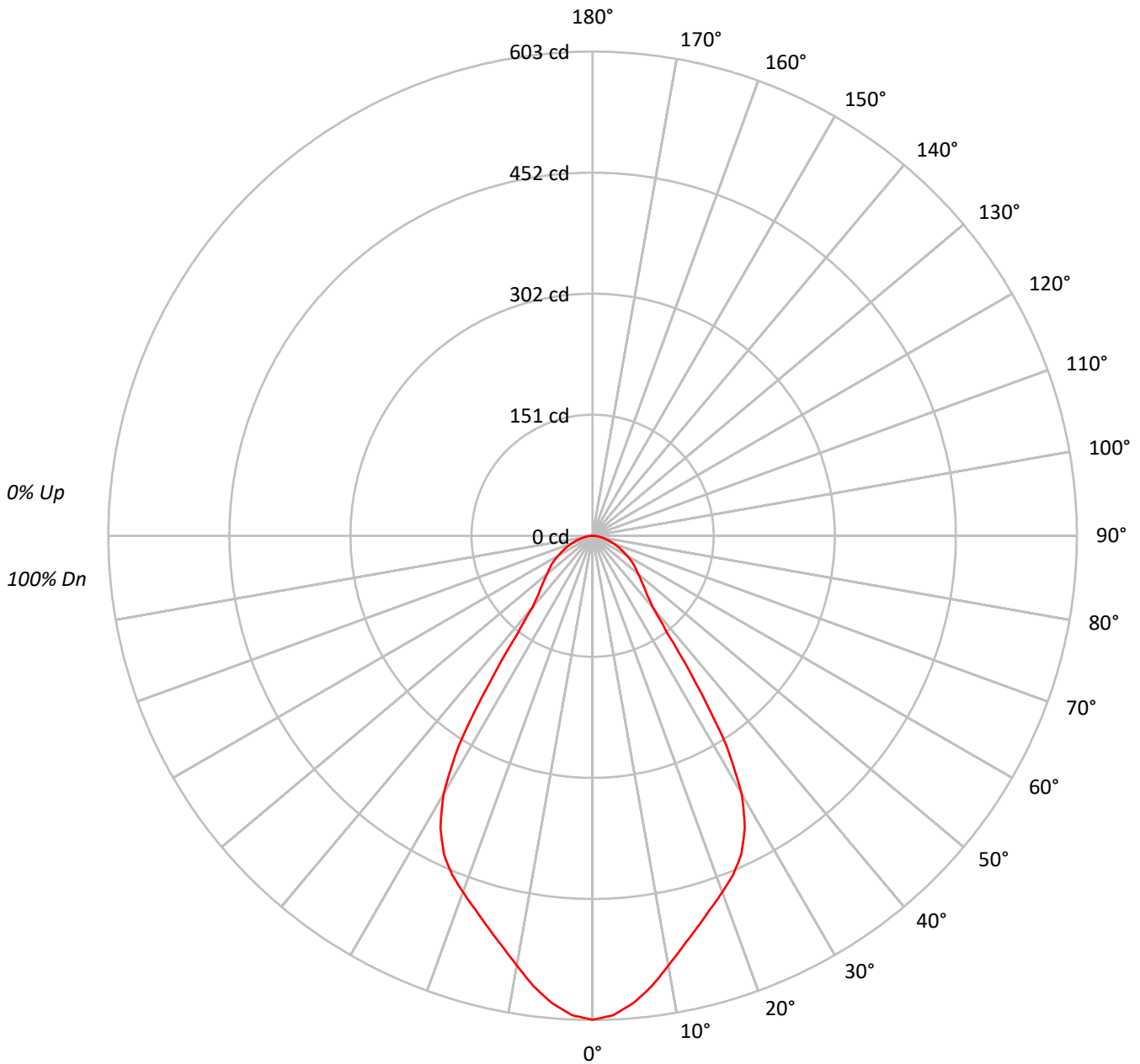
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P583459

CATALOG NUMBER: HC805D010-HM80520835-81MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P583459

CATALOG NUMBER: HC805D010-HM80520835-81MDW

**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°	18588
5°	18080
10°	17012
15°	16106
20°	15495
25°	14899
30°	13228
35°	8425
40°	4702
45°	3942
50°	3555
55°	3355
60°	3059
65°	2758
70°	2443
75°	2168
80°	1918
85°	1734



TEST NUMBER: P583459

CATALOG NUMBER: HC805D010-HM80520835-81MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.5	7.5
10°-20°	142.3	19.6
20°-30°	198.5	27.3
30°-40°	142.8	19.6
40°-50°	70.8	9.7
50°-60°	55.4	7.6
60°-70°	37.5	5.2
70°-80°	19.5	2.7
80°-90°	5.6	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°	395.3	54.4
0°-40°	538.1	74.0
0°-60°	664.3	91.4
0°-90°	727.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	727.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	603	
5°	584	54
15°	504	142
25°	438	199
35°	224	143
45°	90	71
55°	62	55
65°	38	38
75°	18	19
85°	5	6
90°	0	



TEST NUMBER: P583459

CATALOG NUMBER: HC805D010-HM80520835-81MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	602.8
2.5°	597.4
5°	584.1
7.5°	565.5
10°	543.3
12.5°	522.7
15°	504.5
17.5°	487.4
20°	472.2
22.5°	457.0
25°	437.9
27.5°	410.3
30°	371.5
32.5°	310.7
35°	223.8
37.5°	152.6
40°	116.8
42.5°	100.7
45°	90.4
47.5°	81.5
50°	74.1
52.5°	67.8
55°	62.4
57.5°	55.9
60°	49.6
62.5°	43.2
65°	37.8
67.5°	32.4
70°	27.1
72.5°	22.6
75°	18.2
77.5°	14.2
80°	10.8
82.5°	7.9
85°	4.9
87.5°	2.5
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)