

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: P583832

Luminaire Tested: **HC815D010-HM80520827-81MDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583832  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC815D010-HM80520827-81MDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1578.9 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

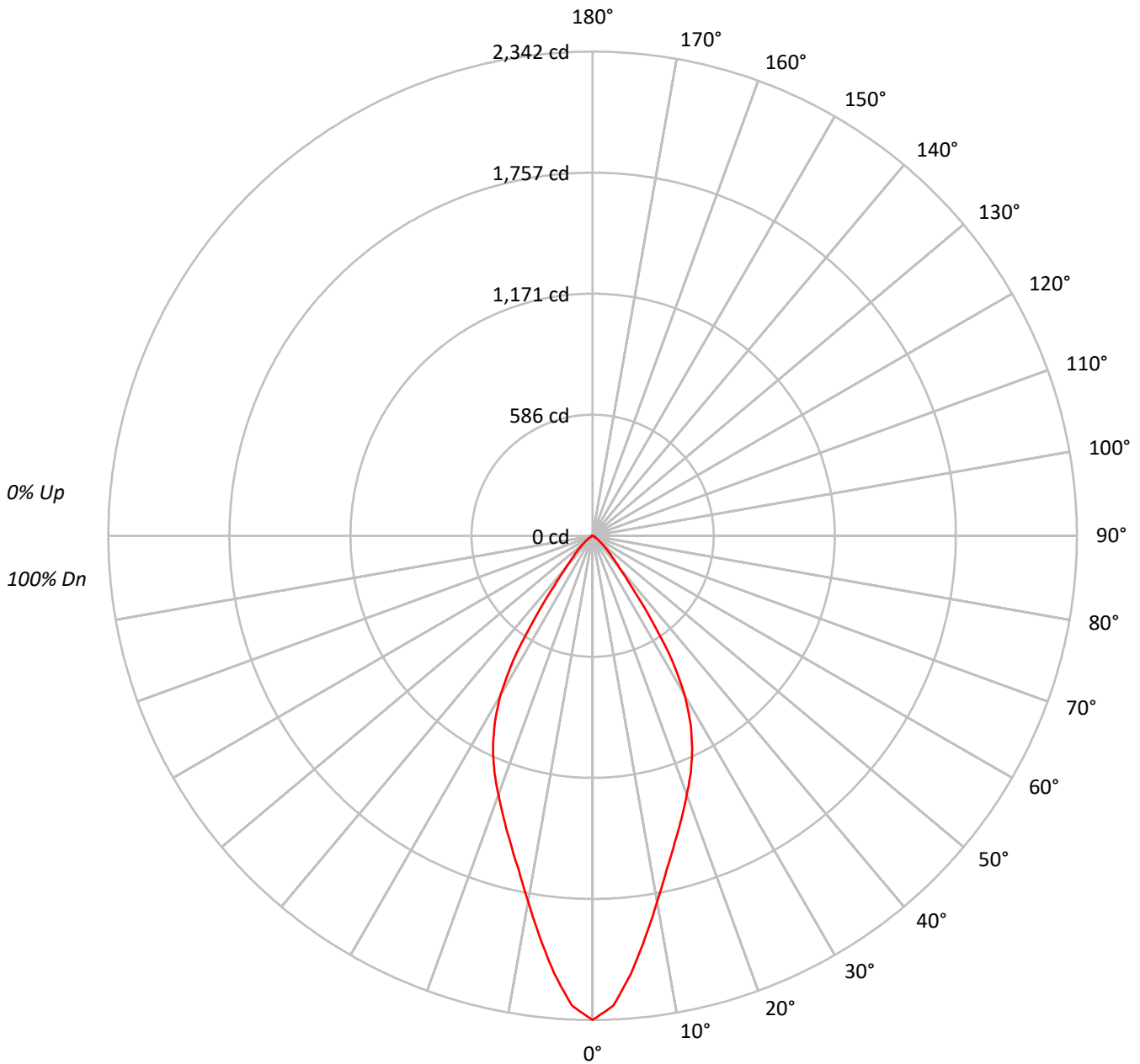
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P583832

CATALOG NUMBER: HC815D010-HM80520827-81MDH

### Luminous Intensity Polar Plot





TEST NUMBER: P583832

CATALOG NUMBER: HC815D010-HM80520827-81MDH

**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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76			
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71			
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58			
9	76	67	61	57	75	66	61	57	65	60	56	64	60	56	63	59	56	55			
10	73	63	57	54	72	63	57	53	62	57	53	61	56	53	60	56	53	52			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	72209
5°	65799
10°	56224
15°	49029
20°	43697
25°	38764
30°	31736
35°	18227
40°	8087
45°	4710
50°	2715
55°	1548
60°	857
65°	547
70°	379
75°	262
80°	195
85°	389



TEST NUMBER: P583832

CATALOG NUMBER: HC815D010-HM80520827-81MDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.4	12.2
10°-20°	431.7	27.3
20°-30°	516.8	32.7
30°-40°	312.6	19.8
40°-50°	87.6	5.5
50°-60°	27.2	1.7
60°-70°	7.7	0.5
70°-80°	2.1	0.1
80°-90°	0.7	0.0
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°	1140.9	72.3
0°-40°	1453.5	92.1
0°-60°	1568.3	99.3
0°-90°	1578.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1578.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2342	
5°	2126	192
15°	1536	432
25°	1139	517
35°	484	313
45°	108	88
55°	29	27
65°	8	8
75°	2	2
85°	1	1
90°	0	



TEST NUMBER: P583832

CATALOG NUMBER: HC815D010-HM80520827-81MDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2341.7
2.5°	2275.4
5°	2125.7
7.5°	1956.9
10°	1795.6
12.5°	1654.5
15°	1535.8
17.5°	1431.1
20°	1331.6
22.5°	1239.8
25°	1139.3
27.5°	1026.1
30°	891.3
32.5°	717.1
35°	484.2
37.5°	301.4
40°	200.9
42.5°	144.2
45°	108.0
47.5°	79.0
50°	56.6
52.5°	39.5
55°	28.8
57.5°	19.3
60°	13.9
62.5°	9.6
65°	7.5
67.5°	5.3
70°	4.2
72.5°	2.2
75°	2.2
77.5°	1.1
80°	1.1
82.5°	1.1
85°	1.1
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)