

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: P583868

Luminaire Tested: **HC815D010-HM80520835-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC815D010-HM80520835-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1642.6 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

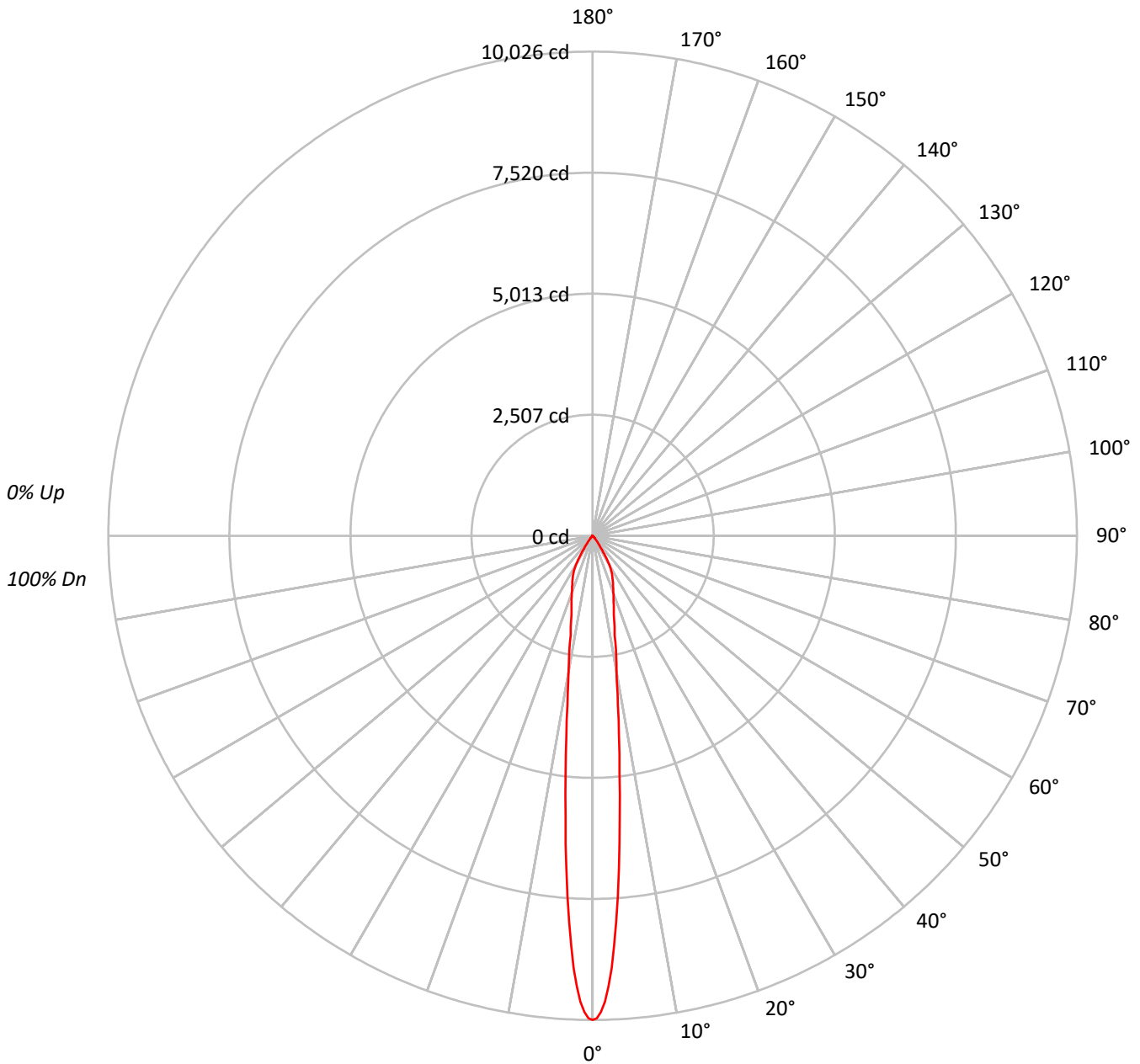
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583868

CATALOG NUMBER: HC815D010-HM80520835-81NDC

Luminous Intensity Polar Plot





TEST NUMBER: P583868

CATALOG NUMBER: HC815D010-HM80520835-81NDC

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	100	100	100
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96	96	96	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	91
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87	87	87	87
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83	83	83	83
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80	80	80	80
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76	76	76	76
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73	73	73	73
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71	71	71	71
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68	68	68	68
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66	66	66	66

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	309159
5°	198301
10°	89581
15°	54051
20°	41187
25°	33262
30°	24376
35°	8828
40°	3293
45°	1491
50°	480
55°	118
60°	68
65°	80
70°	0
75°	0
80°	195
85°	389



TEST NUMBER: P583868

CATALOG NUMBER: HC815D010-HM80520835-81NDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.6	29.7
10°-20°	496.3	30.2
20°-30°	444.3	27.0
30°-40°	179.0	10.9
40°-50°	29.3	1.8
50°-60°	2.7	0.2
60°-70°	1.0	0.1
70°-80°	0.7	0.0
80°-90°	1.0	0.1
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°	1429.1	87.0
0°-40°	1608.1	97.9
0°-60°	1640.1	99.9
0°-90°	1642.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1642.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10026	
5°	6406	489
15°	1693	496
25°	978	444
35°	234	179
45°	34	29
55°	2	3
65°	1	1
75°	0	1
85°	1	1
90°	0	



TEST NUMBER: P583868

CATALOG NUMBER: HC815D010-HM80520835-81NDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	10025.8
0.5°	9994.9
1°	9865.5
1.5°	9657.6
2°	9342.4
2.5°	8969.8
3°	8503.1
3.5°	7991.1
4°	7484.5
4.5°	6917.2
5°	6406.3
5.5°	5850.0
6°	5398.9
6.5°	4928.8
7°	4559.5
7.5°	4169.2
8°	3855.0
8.5°	3539.9
9°	3303.3
9.5°	3042.3
10°	2860.9
12.5°	2110.0
15°	1693.1
17.5°	1446.5
20°	1255.1
22.5°	1102.6
25°	977.6
27.5°	852.7
30°	684.6
32.5°	440.2
35°	234.5
37.5°	129.4
40°	81.8
42.5°	54.2
45°	34.2
47.5°	21.0
50°	10.0
52.5°	3.4
55°	2.2
57.5°	1.1
60°	1.1
62.5°	1.1
65°	1.1



TEST NUMBER: P583868

CATALOG NUMBER: HC815D010-HM80520835-81NDC

CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	1.1
80°	1.1
82.5°	1.1
85°	1.1
87.5°	1.1
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







67.5°		1.1
70°		0.0



(END OF REPORT)