

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: P583852

Luminaire Tested: **HC815D010-HM80520830-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC815D010-HM80520830-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1439.6 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

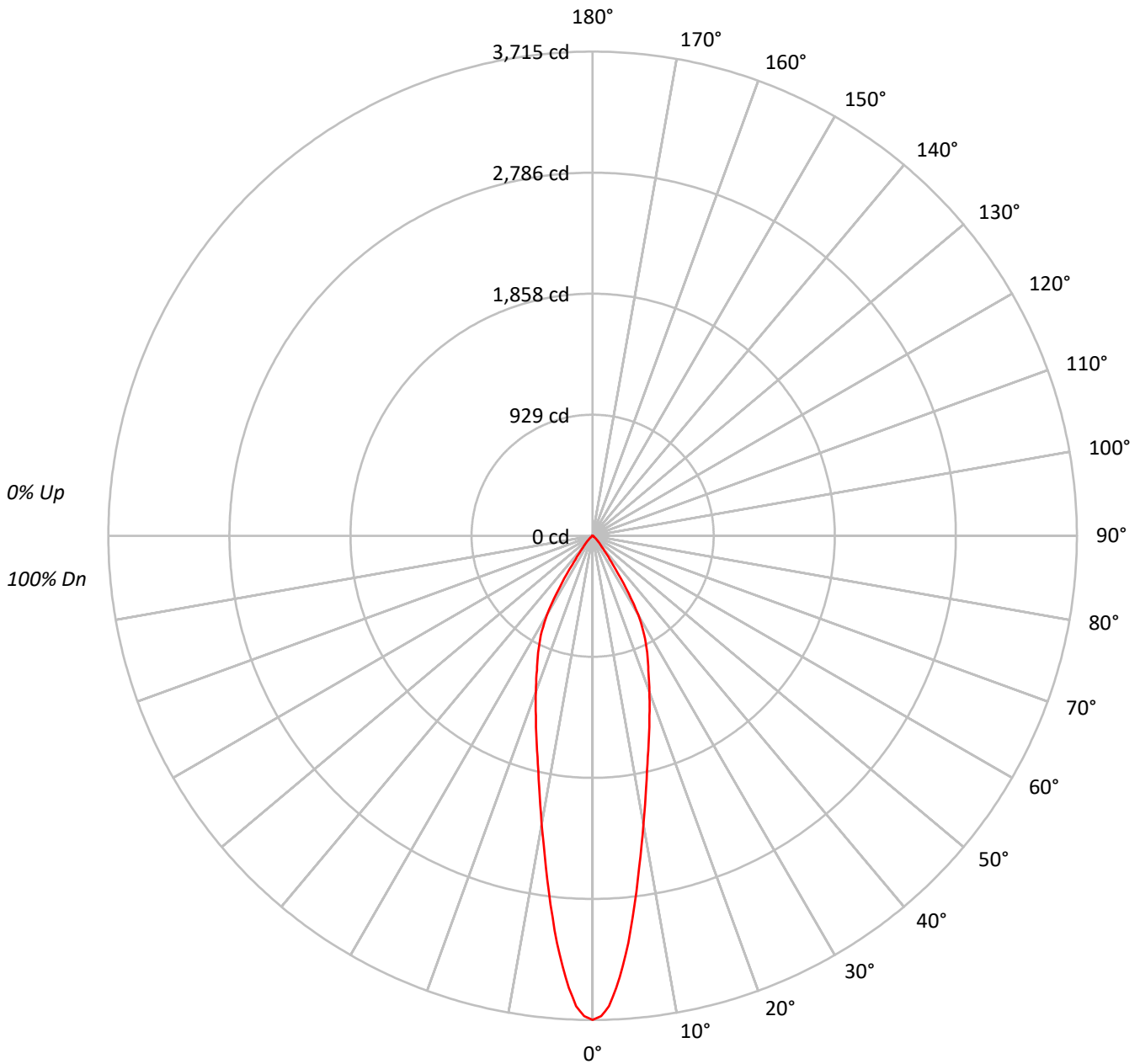
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583852

CATALOG NUMBER: HC815D010-HM80520830-81NDH

Luminous Intensity Polar Plot





TEST NUMBER: P583852

CATALOG NUMBER: HC815D010-HM80520830-81NDH

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	114	112	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95	95	95	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89	89	89	89
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84	84	84	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80	80	80	80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75	75	75	75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72	72	72	72
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68	68	68	68
8	84	76	70	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65	65	65	65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62	62	62	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59	59	59	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	114551
5°	97047
10°	70414
15°	52879
20°	41721
25°	33653
30°	24935
35°	10104
40°	4263
45°	2285
50°	1022
55°	516
60°	327
65°	241
70°	198
75°	131
80°	195
85°	389



TEST NUMBER: P583852

CATALOG NUMBER: HC815D010-HM80520830-81NDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.2	18.7
10°-20°	465.2	32.3
20°-30°	449.8	31.2
30°-40°	197.5	13.7
40°-50°	42.7	3.0
50°-60°	9.6	0.7
60°-70°	3.3	0.2
70°-80°	1.3	0.1
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°	1184.2	82.3
0°-40°	1381.7	96.0
0°-60°	1434.0	99.6
0°-90°	1439.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1439.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3715	
5°	3135	269
15°	1656	465
25°	989	450
35°	268	198
45°	52	43
55°	10	10
65°	3	3
75°	1	1
85°	1	1
90°	0	



TEST NUMBER: P583852

CATALOG NUMBER: HC815D010-HM80520830-81NDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	3714.8
1°	3686.9
2°	3611.0
3°	3474.1
4°	3310.5
5°	3135.2
6°	2943.8
7°	2751.3
8°	2570.6
9°	2402.6
10°	2248.8
11°	2103.3
12°	1972.8
13°	1854.1
14°	1749.4
15°	1656.4
17.5°	1447.8
20°	1271.4
22.5°	1116.3
25°	989.1
27.5°	859.8
30°	700.3
32.5°	475.9
35°	268.4
37.5°	158.2
40°	105.9
42.5°	74.8
45°	52.4
47.5°	34.2
50°	21.3
52.5°	12.8
55°	9.6
57.5°	7.5
60°	5.3
62.5°	4.2
65°	3.3
67.5°	2.2
70°	2.2
72.5°	1.1
75°	1.1
77.5°	1.1
80°	1.1
82.5°	1.1



TEST NUMBER: P583852

CATALOG NUMBER: HC815D010-HM80520830-81NDH

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







85°		1.1
87.5°		1.1



(END OF REPORT)