

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: P583929

Luminaire Tested: **HC815D010-HM80520930-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC815D010-HM80520930-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1583.2 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

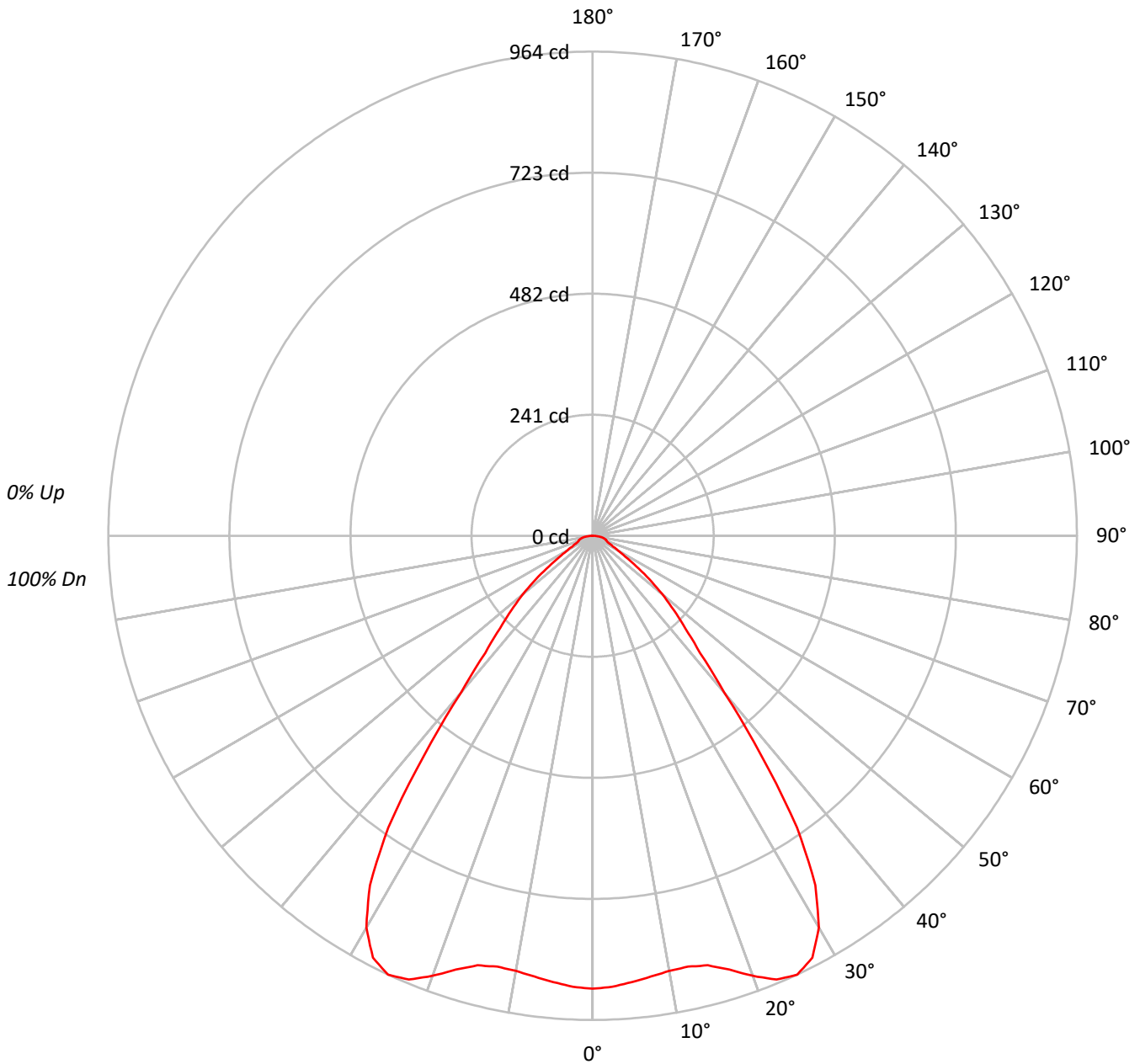
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583929

CATALOG NUMBER: HC815D010-HM80520930-81WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P583929

CATALOG NUMBER: HC815D010-HM80520930-81WDWB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									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	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	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90																											
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81																											
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73																											
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65																											
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59																											
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54																											
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49																											
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45																											
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41																											
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	27805
5°	27614
10°	27539
15°	28262
20°	30597
25°	32803
30°	32071
35°	26705
40°	16403
45°	11360
50°	8673
55°	5688
60°	3559
65°	2663
70°	2687
75°	3086
80°	3427
85°	3078



TEST NUMBER: P583929

CATALOG NUMBER: HC815D010-HM80520930-81WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	5.4
10°-20°	254.1	16.1
20°-30°	437.5	27.6
30°-40°	423.9	26.8
40°-50°	208.8	13.2
50°-60°	98.6	6.2
60°-70°	38.8	2.5
70°-80°	26.7	1.7
80°-90°	10.0	0.6
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°	776.4	49.0
0°-40°	1200.3	75.8
0°-60°	1507.7	95.2
0°-90°	1583.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1583.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	902	
5°	892	85
15°	885	254
25°	964	438
35°	709	424
45°	260	209
55°	106	99
65°	36	39
75°	26	27
85°	9	10
90°	0	



TEST NUMBER: P583929

CATALOG NUMBER: HC815D010-HM80520930-81WDWB

CANDELA DISTRIBUTION (FULL):

	0°
0°	901.7
2.5°	898.8
5°	892.1
7.5°	885.3
10°	879.5
12.5°	878.6
15°	885.3
17.5°	905.6
20°	932.4
22.5°	956.4
25°	964.1
27.5°	946.9
30°	900.7
32.5°	824.8
35°	709.4
37.5°	550.8
40°	407.5
42.5°	316.3
45°	260.5
47.5°	219.2
50°	180.8
52.5°	142.3
55°	105.8
57.5°	76.9
60°	57.7
62.5°	45.2
65°	36.5
67.5°	31.7
70°	29.8
72.5°	27.8
75°	25.9
77.5°	23.0
80°	19.3
82.5°	14.5
85°	8.7
87.5°	3.9
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)