

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: P583912

Luminaire Tested: **HC815D010-HM80520927-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583912  
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-HM80520927-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1429.5 lumens  
Efficiency: N/A  
Efficacy: 102.1 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

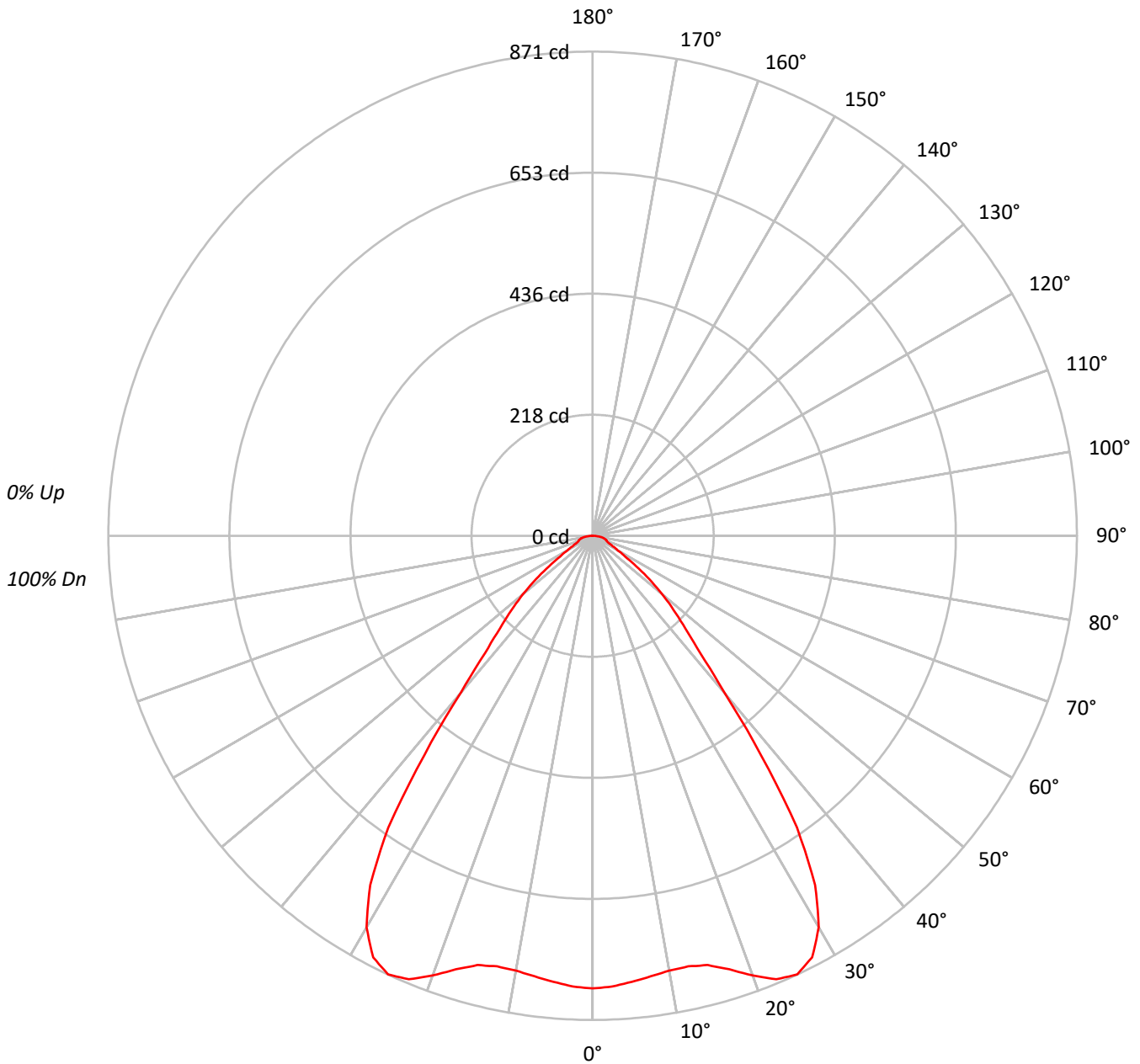
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			65
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			38

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

	0°
0°	25107
5°	24934
10°	24868
15°	25520
20°	27627
25°	29621
30°	28959
35°	24115
40°	14813
45°	10257
50°	7829
55°	5129
60°	3213
65°	2408
70°	2425
75°	2788
80°	3090
85°	2760



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.5	5.4
10°-20°	229.5	16.1
20°-30°	395.0	27.6
30°-40°	382.7	26.8
40°-50°	188.5	13.2
50°-60°	89.0	6.2
60°-70°	35.1	2.5
70°-80°	24.2	1.7
80°-90°	9.0	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°	701.1	49.0
0°-40°	1083.8	75.8
0°-60°	1361.3	95.2
0°-90°	1429.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1429.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	814	
5°	806	77
15°	799	229
25°	871	395
35°	641	383
45°	235	189
55°	95	89
65°	33	35
75°	23	24
85°	8	9
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	814.2
2.5°	811.6
5°	805.5
7.5°	799.4
10°	794.2
12.5°	793.4
15°	799.4
17.5°	817.6
20°	841.9
22.5°	863.6
25°	870.6
27.5°	854.9
30°	813.3
32.5°	744.7
35°	640.6
37.5°	497.3
40°	368.0
42.5°	285.6
45°	235.2
47.5°	197.9
50°	163.2
52.5°	128.5
55°	95.4
57.5°	69.4
60°	52.1
62.5°	40.8
65°	33.0
67.5°	28.7
70°	26.9
72.5°	25.2
75°	23.4
77.5°	20.8
80°	17.4
82.5°	13.0
85°	7.8
87.5°	3.5
90°	0.0



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— 0°-180°







(END OF REPORT)