

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: P583878

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583878  
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-HM80520835-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1821.8 lumens  
Efficiency: N/A  
Efficacy: 130.1 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

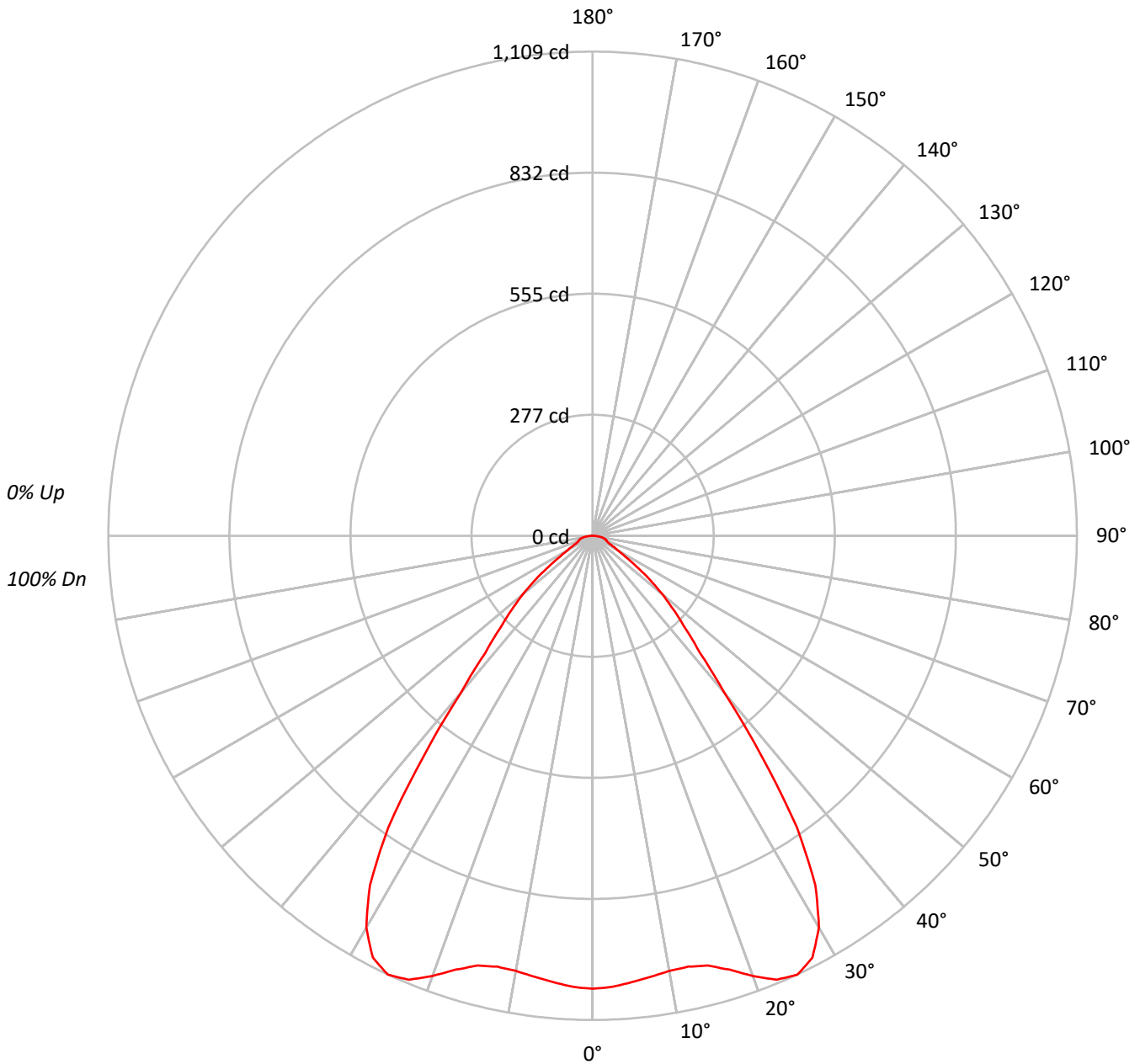
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
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°	31993
5°	31774
10°	31691
15°	32521
20°	35208
25°	37746
30°	36903
35°	30729
40°	18879
45°	13074
50°	9978
55°	6543
60°	4095
65°	3072
70°	3092
75°	3562
80°	3942
85°	3538



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.5	5.4
10°-20°	292.4	16.1
20°-30°	503.4	27.6
30°-40°	487.8	26.8
40°-50°	240.3	13.2
50°-60°	113.4	6.2
60°-70°	44.7	2.5
70°-80°	30.8	1.7
80°-90°	11.5	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°	893.4	49.0
0°-40°	1381.2	75.8
0°-60°	1734.8	95.2
0°-90°	1821.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1821.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1038	
5°	1026	98
15°	1019	292
25°	1109	503
35°	816	488
45°	300	240
55°	122	113
65°	42	45
75°	30	31
85°	10	11
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1037.5
2.5°	1034.3
5°	1026.5
7.5°	1018.7
10°	1012.1
12.5°	1011.0
15°	1018.7
17.5°	1042.0
20°	1072.9
22.5°	1100.6
25°	1109.4
27.5°	1089.6
30°	1036.4
32.5°	949.1
35°	816.3
37.5°	633.8
40°	469.0
42.5°	363.9
45°	299.8
47.5°	252.2
50°	208.0
52.5°	163.8
55°	121.7
57.5°	88.4
60°	66.4
62.5°	51.9
65°	42.1
67.5°	36.5
70°	34.3
72.5°	32.1
75°	29.9
77.5°	26.5
80°	22.2
82.5°	16.6
85°	10.0
87.5°	4.5
90°	0.0



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— 0°-180°







(END OF REPORT)