

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: P583853

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583853  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC815D010-HM80520830-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1423.6 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

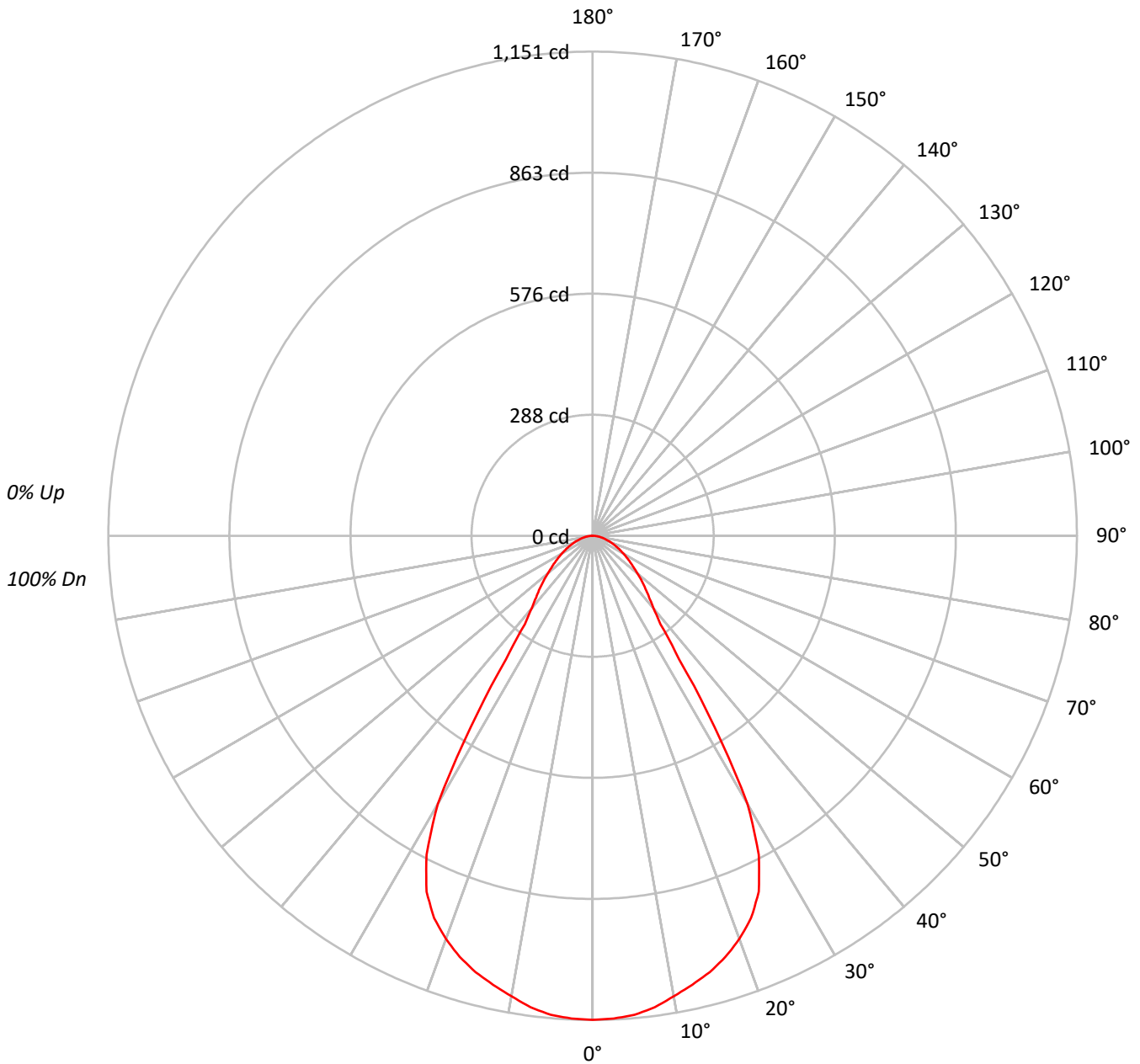
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

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

	0°
0°	35486
5°	35390
10°	34800
15°	34290
20°	33468
25°	31772
30°	26207
35°	13492
40°	9033
45°	7745
50°	6683
55°	5828
60°	5181
65°	4662
70°	4219
75°	3801
80°	3410
85°	3361



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.1	7.6
10°-20°	302.2	21.2
20°-30°	418.7	29.4
30°-40°	251.5	17.7
40°-50°	137.7	9.7
50°-60°	97.8	6.9
60°-70°	63.5	4.5
70°-80°	33.9	2.4
80°-90°	10.1	0.7
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°	829.1	58.2
0°-40°	1080.6	75.9
0°-60°	1316.0	92.4
0°-90°	1423.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1423.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1151	
5°	1143	108
15°	1074	302
25°	934	419
35°	358	252
45°	178	138
55°	108	98
65°	64	64
75°	32	34
85°	10	10
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1150.8
2.5°	1148.6
5°	1143.3
7.5°	1130.5
10°	1111.4
12.5°	1093.3
15°	1074.1
17.5°	1049.7
20°	1019.9
22.5°	983.8
25°	933.8
27.5°	855.1
30°	736.0
32.5°	539.2
35°	358.4
37.5°	264.9
40°	224.4
42.5°	198.8
45°	177.6
47.5°	157.4
50°	139.3
52.5°	122.3
55°	108.4
57.5°	95.7
60°	84.0
62.5°	73.4
65°	63.9
67.5°	54.2
70°	46.8
72.5°	38.3
75°	31.9
77.5°	25.5
80°	19.2
82.5°	13.9
85°	9.5
87.5°	4.2
90°	0.0



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— 0°-180°







(END OF REPORT)