

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: P593576

Luminaire Tested: **HC815D010-HM80520950-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593576  
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-HM80520950-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1399.6 lumens  
Efficiency: N/A  
Efficacy: 100.0 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

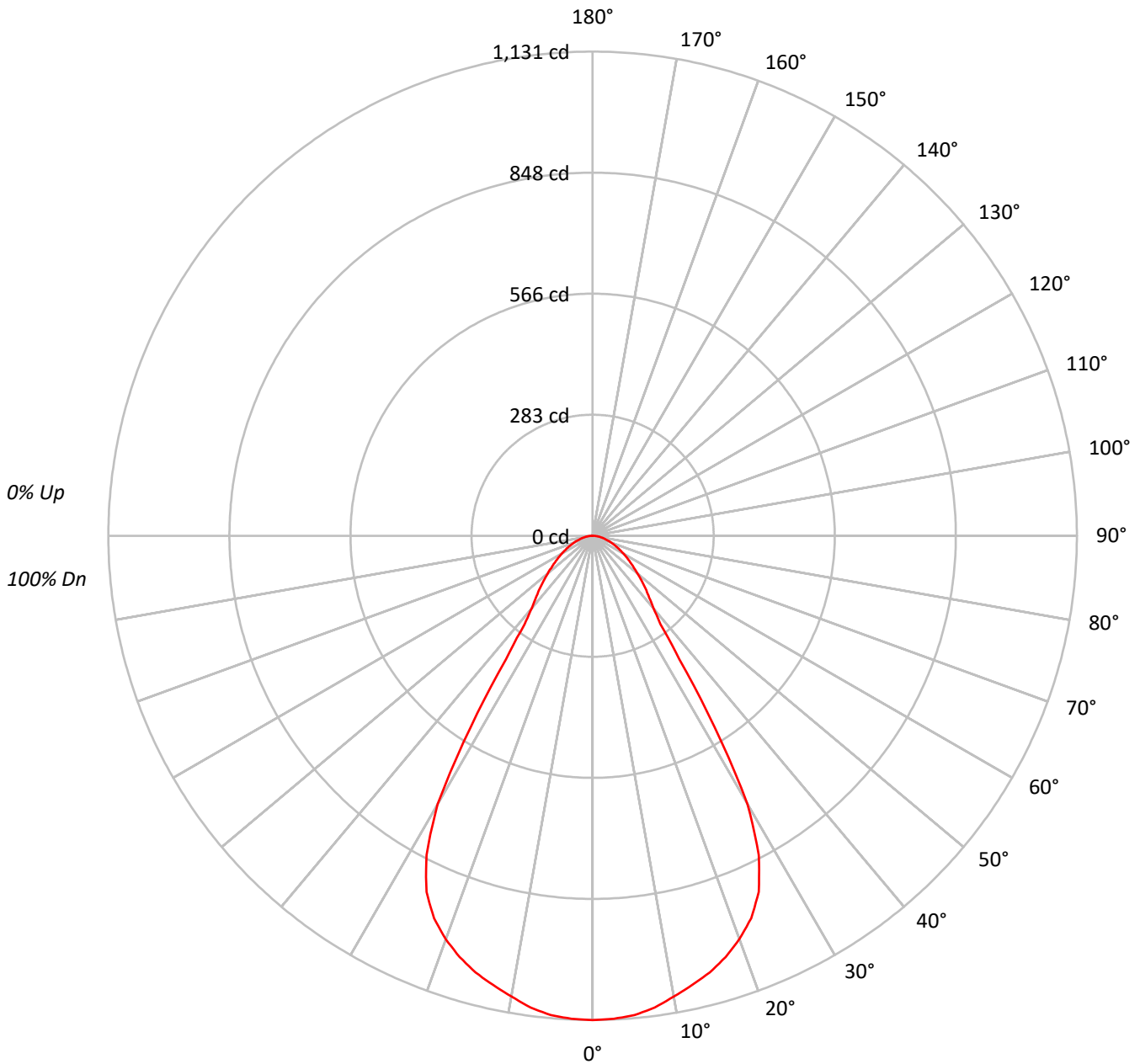
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
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	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°	34888
5°	34792
10°	34215
15°	33715
20°	32904
25°	31234
30°	25765
35°	13262
40°	8880
45°	7614
50°	6572
55°	5731
60°	5088
65°	4582
70°	4147
75°	3729
80°	3338
85°	3326



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.3	7.6
10°-20°	297.1	21.2
20°-30°	411.7	29.4
30°-40°	247.3	17.7
40°-50°	135.4	9.7
50°-60°	96.2	6.9
60°-70°	62.5	4.5
70°-80°	33.3	2.4
80°-90°	10.0	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°	815.1	58.2
0°-40°	1062.3	75.9
0°-60°	1293.8	92.4
0°-90°	1399.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1399.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1131	
5°	1124	106
15°	1056	297
25°	918	412
35°	352	247
45°	175	135
55°	107	96
65°	63	62
75°	31	33
85°	9	10
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1131.4
2.5°	1129.2
5°	1124.0
7.5°	1111.5
10°	1092.7
12.5°	1074.9
15°	1056.1
17.5°	1032.0
20°	1002.7
22.5°	967.1
25°	918.0
27.5°	840.6
30°	723.6
32.5°	530.1
35°	352.3
37.5°	260.4
40°	220.6
42.5°	195.6
45°	174.6
47.5°	154.7
50°	137.0
52.5°	120.3
55°	106.6
57.5°	94.1
60°	82.5
62.5°	72.2
65°	62.8
67.5°	53.4
70°	46.0
72.5°	37.6
75°	31.3
77.5°	25.1
80°	18.8
82.5°	13.6
85°	9.4
87.5°	4.2
90°	0.0



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— 0°-180°







(END OF REPORT)