

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: P593574

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593574  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC815D010-HM80520950-81WDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1756.1 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

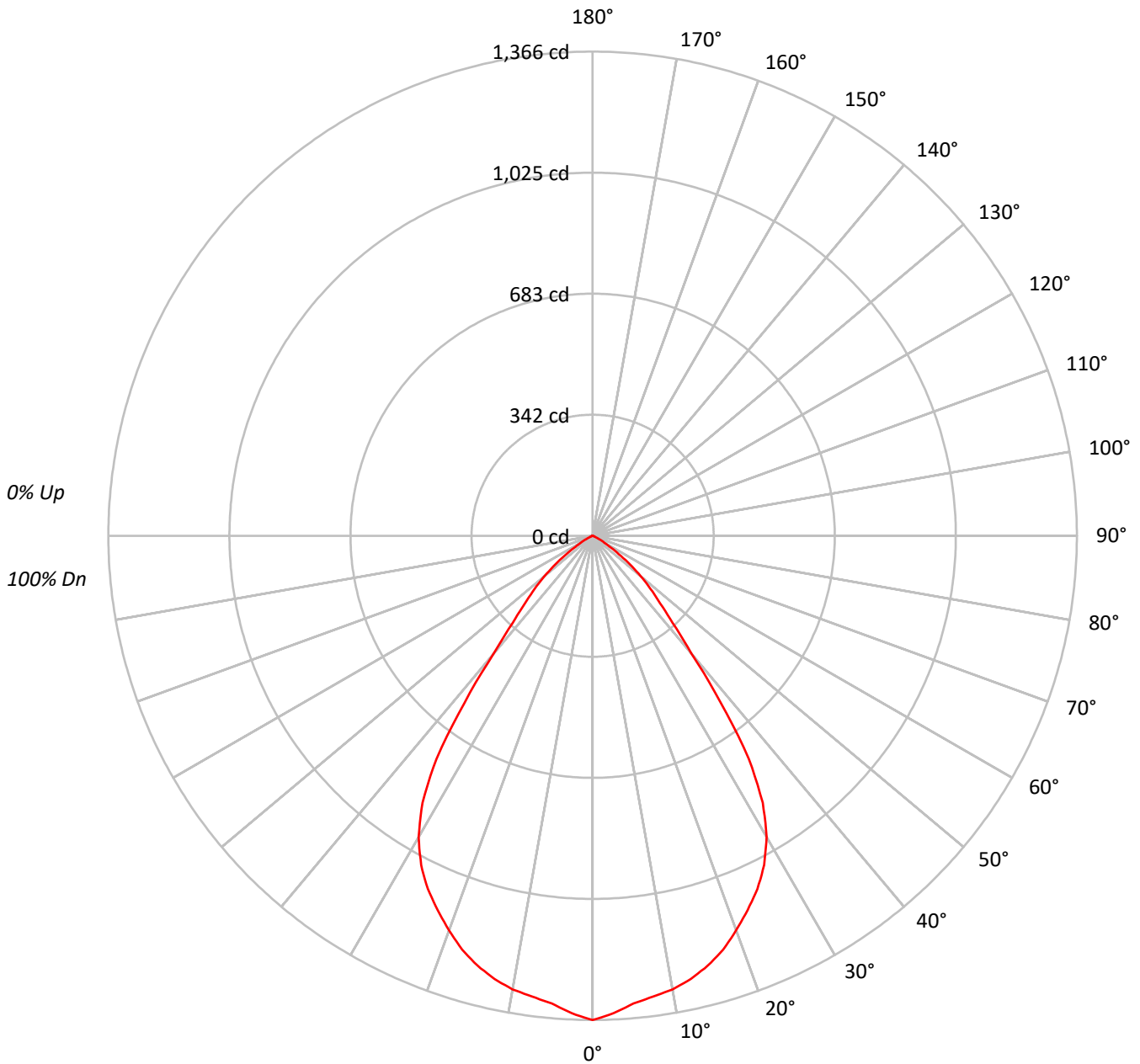
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				100															
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92				92															
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84				84															
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	77				77															
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	71	70				70															
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64				64															
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59				59															
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	63	59	55	54				54															
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50				50															
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46				46															
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43				43															

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

	0°
0°	42129
5°	40996
10°	40687
15°	40081
20°	38866
25°	37416
30°	34952
35°	28922
40°	17462
45°	11761
50°	8477
55°	4833
60°	2128
65°	766
70°	279
75°	131
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.8	7.2
10°-20°	352.8	20.1
20°-30°	503.3	28.7
30°-40°	458.3	26.1
40°-50°	216.2	12.3
50°-60°	85.0	4.8
60°-70°	13.6	0.8
70°-80°	1.0	0.1
80°-90°	0.0	0.0
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°	982.0	55.9
0°-40°	1440.3	82.0
0°-60°	1741.5	99.2
0°-90°	1756.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1756.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1366	
5°	1324	126
15°	1256	353
25°	1100	503
35°	768	458
45°	270	216
55°	90	85
65°	10	14
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1366.2
2.5°	1348.5
5°	1324.4
7.5°	1310.9
10°	1299.4
12.5°	1280.6
15°	1255.5
17.5°	1224.2
20°	1184.4
22.5°	1142.6
25°	1099.7
27.5°	1047.4
30°	981.6
32.5°	892.8
35°	768.3
37.5°	593.7
40°	433.8
42.5°	333.4
45°	269.7
47.5°	221.6
50°	176.7
52.5°	132.8
55°	89.9
57.5°	56.4
60°	34.5
62.5°	21.0
65°	10.5
67.5°	5.2
70°	3.1
72.5°	1.1
75°	1.1
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)