

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: P583844

Luminaire Tested: **HC815D010-HM80520827-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583844  
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-HM80520827-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1760.6 lumens  
Efficiency: N/A  
Efficacy: 125.8 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

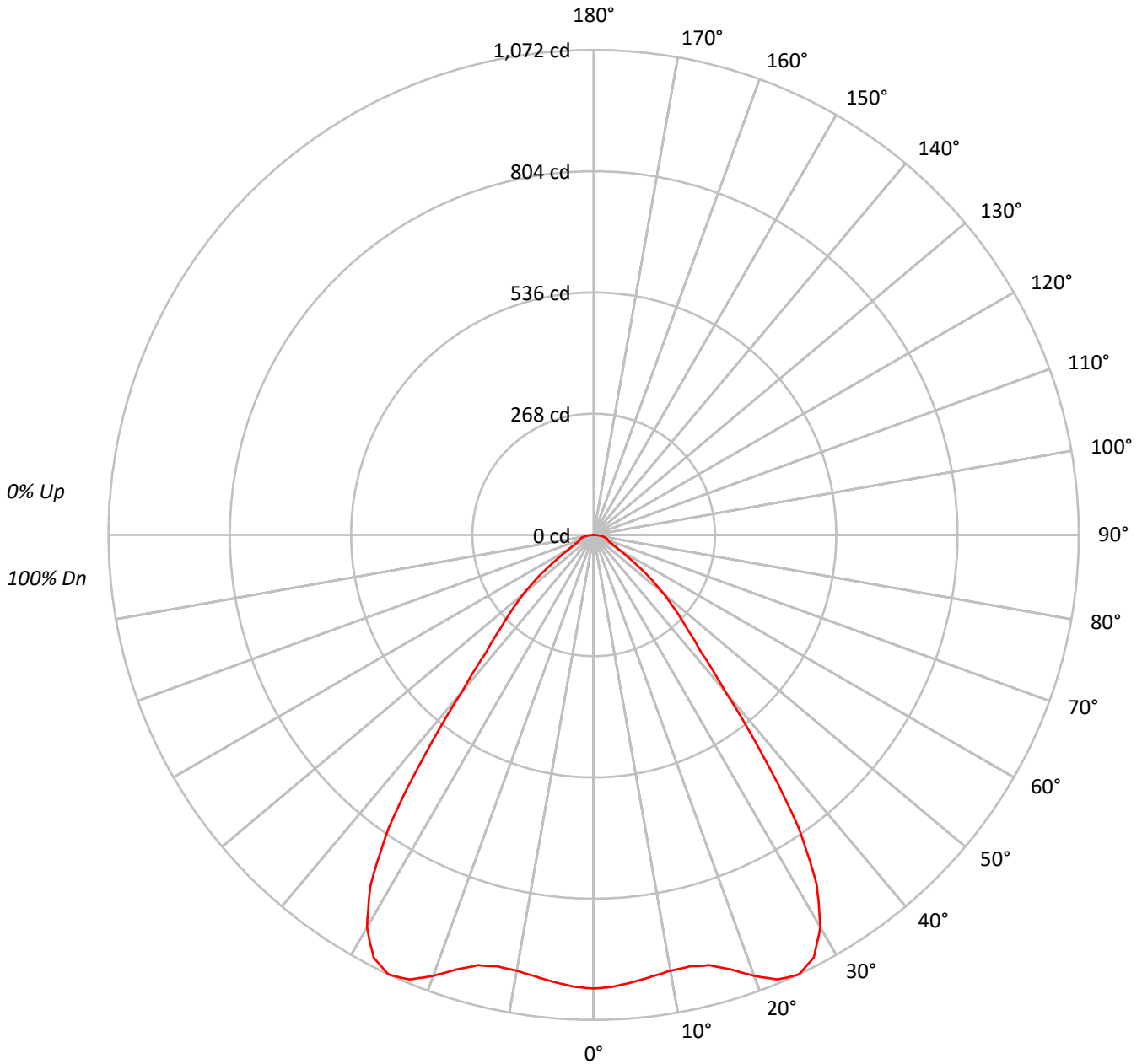
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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	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°	30923
5°	30710
10°	30629
15°	31432
20°	34029
25°	36481
30°	35667
35°	29698
40°	18247
45°	12634
50°	9643
55°	6322
60°	3953
65°	2962
70°	2984
75°	3443
80°	3782
85°	3397



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.3	5.4
10°-20°	282.6	16.1
20°-30°	486.6	27.6
30°-40°	471.4	26.8
40°-50°	232.2	13.2
50°-60°	109.6	6.2
60°-70°	43.2	2.5
70°-80°	29.8	1.7
80°-90°	11.0	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°	863.5	49.0
0°-40°	1334.9	75.8
0°-60°	1676.6	95.2
0°-90°	1760.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1760.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1003	
5°	992	94
15°	985	283
25°	1072	487
35°	789	471
45°	290	232
55°	118	110
65°	41	43
75°	29	30
85°	10	11
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1002.8
2.5°	999.5
5°	992.1
7.5°	984.6
10°	978.2
12.5°	977.1
15°	984.6
17.5°	1007.0
20°	1037.0
22.5°	1063.7
25°	1072.2
27.5°	1053.0
30°	1001.7
32.5°	917.2
35°	788.9
37.5°	612.5
40°	453.3
42.5°	351.7
45°	289.7
47.5°	243.8
50°	201.0
52.5°	158.2
55°	117.6
57.5°	85.6
60°	64.1
62.5°	50.2
65°	40.6
67.5°	35.3
70°	33.1
72.5°	31.0
75°	28.9
77.5°	25.7
80°	21.3
82.5°	16.0
85°	9.6
87.5°	4.2
90°	0.0



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— 0°-180°







(END OF REPORT)