

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: P583962

Luminaire Tested: **HC815D010-HM80520940-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583962  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC815D010-HM80520940-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1605.5 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

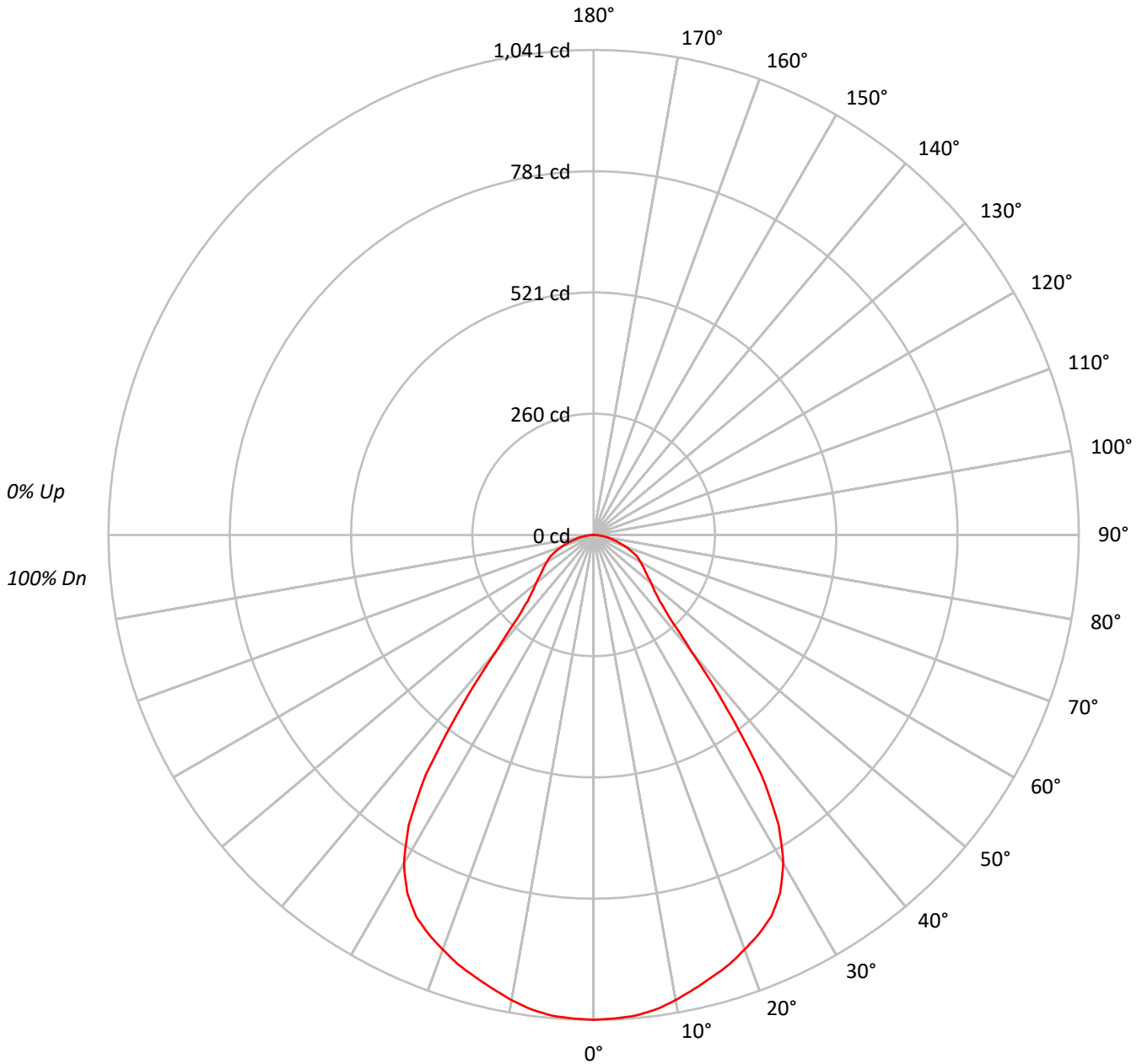
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



0% Up  
100% Dn



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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			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

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

	0°
0°	32098
5°	32059
10°	31744
15°	31362
20°	31073
25°	30720
30°	28987
35°	23607
40°	13042
45°	8709
50°	7724
55°	7247
60°	7154
65°	7092
70°	6410
75°	5731
80°	5008
85°	4423



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.2	6.1
10°-20°	277.4	17.3
20°-30°	412.2	25.7
30°-40°	371.2	23.1
40°-50°	164.6	10.3
50°-60°	121.9	7.6
60°-70°	94.8	5.9
70°-80°	51.4	3.2
80°-90°	14.1	0.9
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°	787.7	49.1
0°-40°	1158.9	72.2
0°-60°	1445.3	90.0
0°-90°	1605.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1605.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1041	
5°	1036	98
15°	982	277
25°	903	412
35°	627	371
45°	200	165
55°	135	122
65°	97	95
75°	48	51
85°	12	14
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1040.9
2.5°	1038.8
5°	1035.7
7.5°	1027.3
10°	1013.8
12.5°	998.1
15°	982.4
17.5°	966.7
20°	946.9
22.5°	927.0
25°	902.9
27.5°	866.4
30°	814.1
32.5°	738.9
35°	627.1
37.5°	468.1
40°	324.0
42.5°	239.3
45°	199.7
47.5°	176.7
50°	161.0
52.5°	146.3
55°	134.8
57.5°	125.4
60°	116.0
62.5°	107.6
65°	97.2
67.5°	84.7
70°	71.1
72.5°	59.5
75°	48.1
77.5°	37.6
80°	28.2
82.5°	19.9
85°	12.5
87.5°	5.2
90°	0.0



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— 0°-180°







(END OF REPORT)