

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: P593575

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593575  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC815D010-HM80520950-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1548.1 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

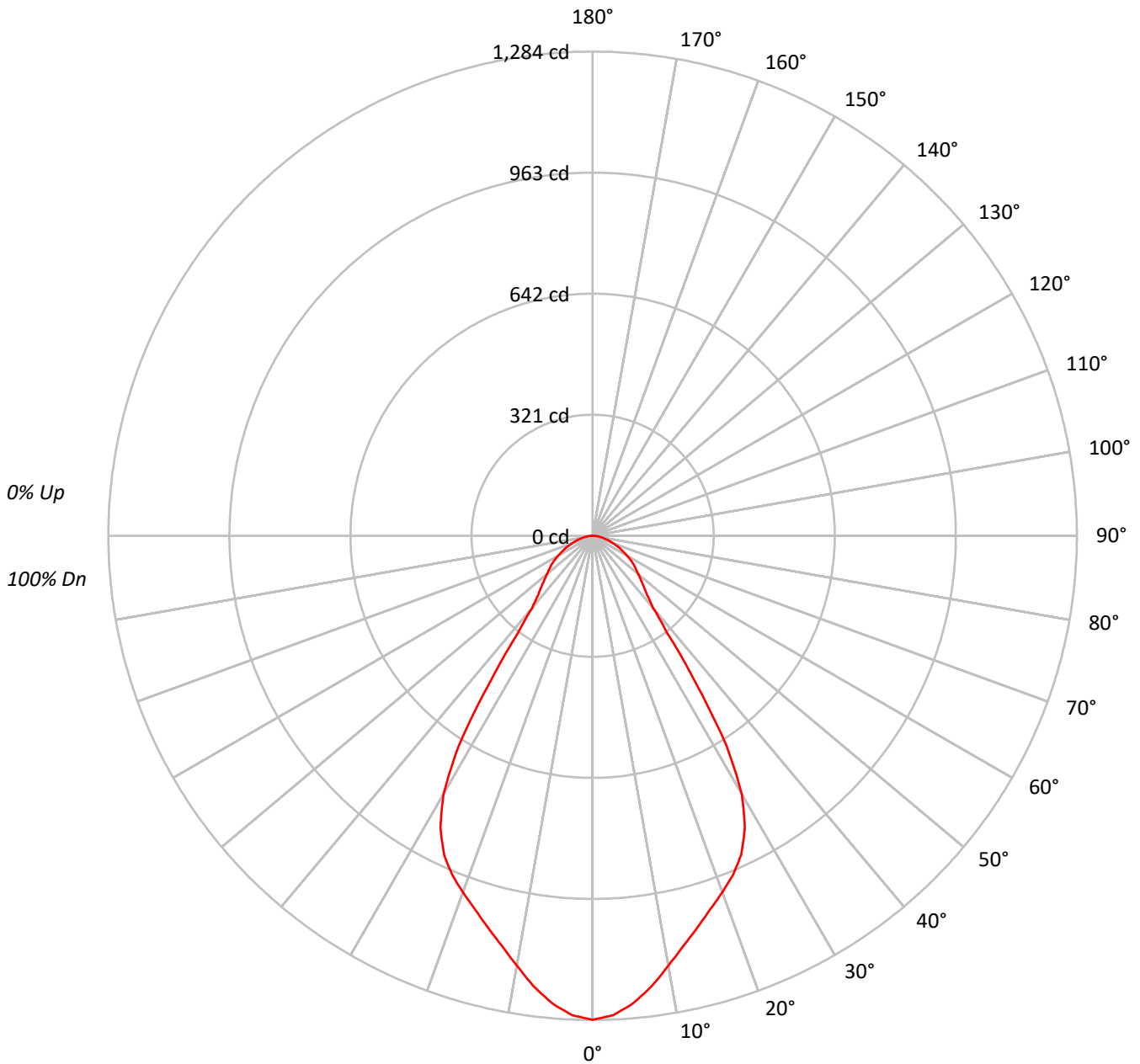
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			

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

	0°
0°	39585
5°	38504
10°	36234
15°	34306
20°	32999
25°	31724
30°	28176
35°	17945
40°	10015
45°	8386
50°	7575
55°	7140
60°	6513
65°	5874
70°	5184
75°	4611
80°	4084
85°	3715



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.0	7.5
10°-20°	303.1	19.6
20°-30°	422.8	27.3
30°-40°	304.2	19.7
40°-50°	150.7	9.7
50°-60°	118.0	7.6
60°-70°	79.8	5.2
70°-80°	41.5	2.7
80°-90°	11.9	0.8
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°	841.8	54.4
0°-40°	1146.0	74.0
0°-60°	1414.8	91.4
0°-90°	1548.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1548.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1284	
5°	1244	116
15°	1075	303
25°	932	423
35°	477	304
45°	192	151
55°	133	118
65°	80	80
75°	39	42
85°	10	12
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1283.7
2.5°	1272.1
5°	1243.9
7.5°	1204.2
10°	1157.2
12.5°	1113.3
15°	1074.6
17.5°	1038.0
20°	1005.6
22.5°	973.2
25°	932.4
27.5°	873.9
30°	791.3
32.5°	661.7
35°	476.7
37.5°	325.1
40°	248.8
42.5°	214.2
45°	192.3
47.5°	173.5
50°	157.9
52.5°	144.2
55°	132.8
57.5°	119.2
60°	105.6
62.5°	91.9
65°	80.5
67.5°	69.0
70°	57.5
72.5°	48.1
75°	38.7
77.5°	30.4
80°	23.0
82.5°	16.7
85°	10.5
87.5°	5.2
90°	0.0



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— 0°-180°







(END OF REPORT)