

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: P585148

Luminaire Tested: **HC860D010-HM86080930-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585148  
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: HC860D010-HM86080930-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4990.0 lumens  
Efficiency: N/A  
Efficacy: 89.1 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

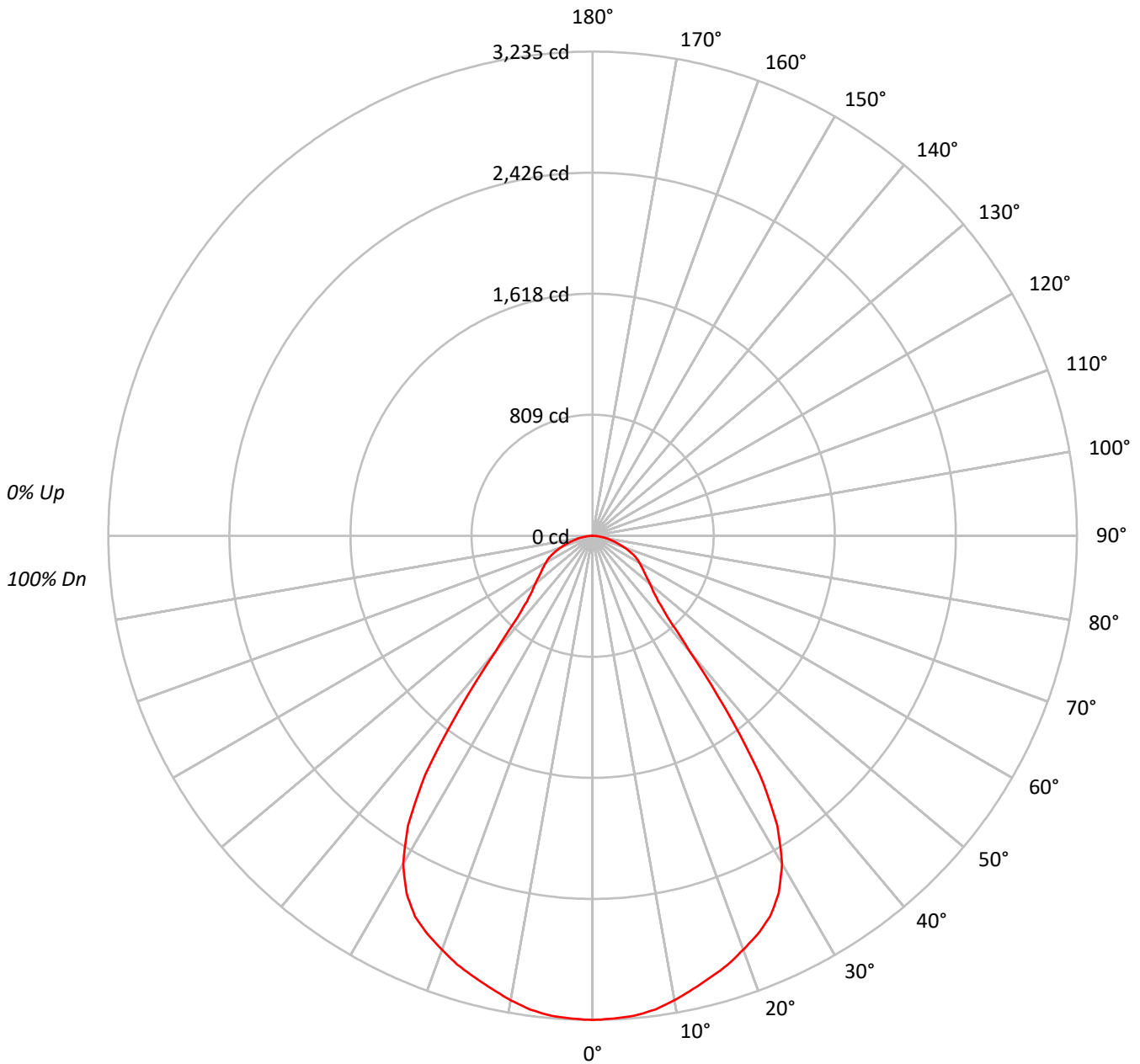
Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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°	99762
5°	99638
10°	98655
15°	97474
20°	96569
25°	95489
30°	90096
35°	73365
40°	40532
45°	27055
50°	23996
55°	22526
60°	22239
65°	22043
70°	19916
75°	17800
80°	15574
85°	13798



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.1	6.1
10°-20°	862.1	17.3
20°-30°	1281.0	25.7
30°-40°	1153.6	23.1
40°-50°	511.4	10.2
50°-60°	378.8	7.6
60°-70°	294.6	5.9
70°-80°	159.7	3.2
80°-90°	43.8	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°	2448.2	49.1
0°-40°	3601.8	72.2
0°-60°	4492.0	90.0
0°-90°	4990.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4990.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3235	
5°	3219	305
15°	3053	862
25°	2806	1281
35°	1949	1154
45°	620	511
55°	419	379
65°	302	295
75°	149	160
85°	39	44
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3235.2
2.5°	3228.7
5°	3218.9
7.5°	3193.0
10°	3150.7
12.5°	3102.0
15°	3053.3
17.5°	3004.6
20°	2942.8
22.5°	2881.1
25°	2806.5
27.5°	2692.7
30°	2530.3
32.5°	2296.4
35°	1948.9
37.5°	1455.1
40°	1006.9
42.5°	743.8
45°	620.4
47.5°	548.9
50°	500.2
52.5°	454.8
55°	419.0
57.5°	389.7
60°	360.6
62.5°	334.6
65°	302.1
67.5°	263.1
70°	220.9
72.5°	185.1
75°	149.4
77.5°	117.0
80°	87.7
82.5°	61.7
85°	39.0
87.5°	16.3
90°	0.0



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— 0°-180°







(END OF REPORT)