

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: P585138

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585138  
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: HC860D010-HM86080930-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4811.3 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

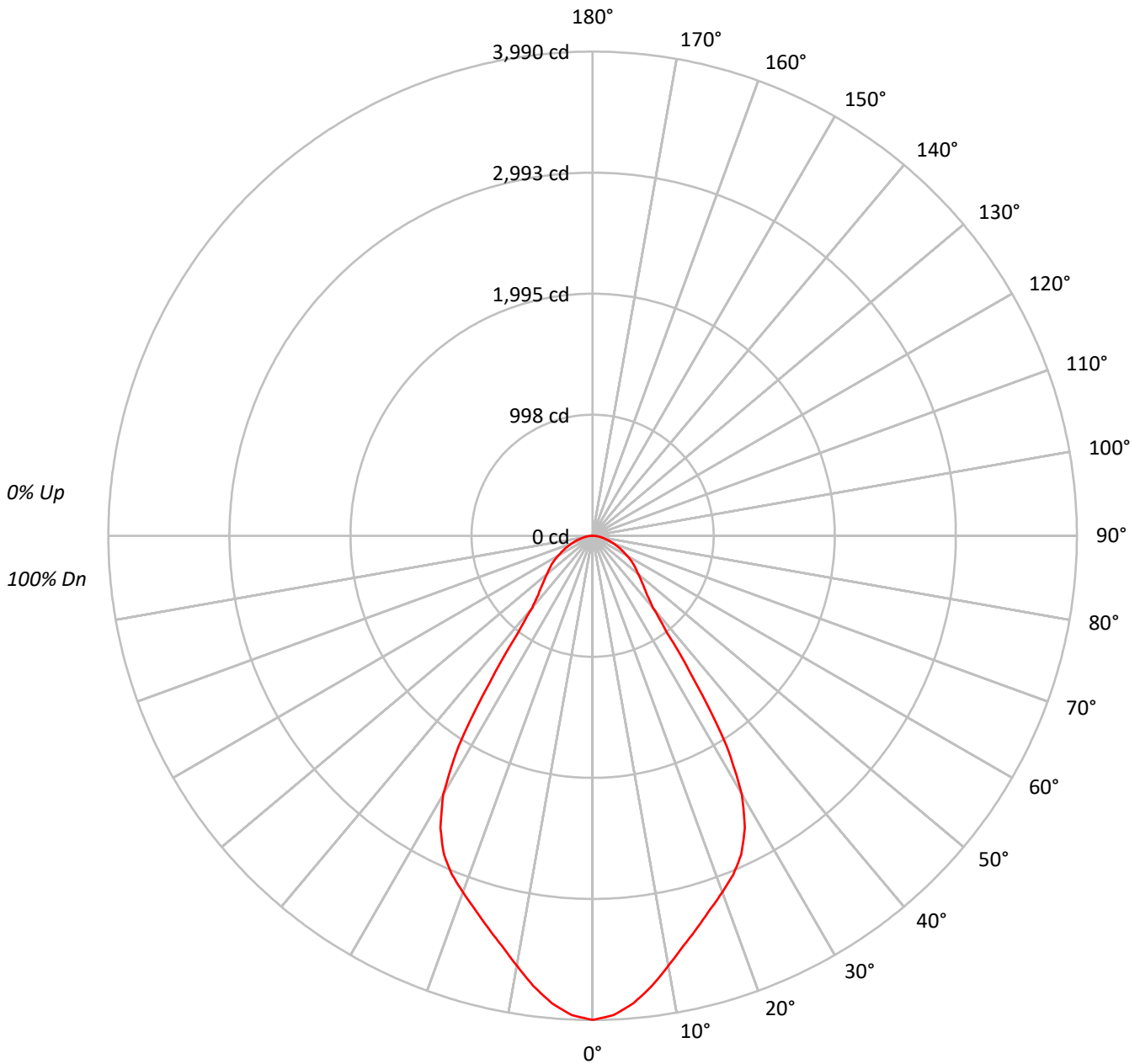
Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65	65	65	65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59	59	59	59
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54	54	54	54
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50	50	50	50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46	46	46	46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43	43	43	43
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40	40	40	40

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

	0°
0°	123025
5°	119675
10°	112614
15°	106623
20°	102561
25°	98602
30°	87571
35°	55770
40°	31124
45°	26070
50°	23531
55°	22182
60°	20235
65°	18256
70°	16111
75°	14321
80°	12697
85°	11499



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.4	7.5
10°-20°	941.9	19.6
20°-30°	1314.0	27.3
30°-40°	945.5	19.7
40°-50°	468.6	9.7
50°-60°	366.6	7.6
60°-70°	248.2	5.2
70°-80°	128.9	2.7
80°-90°	37.2	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°	2616.4	54.4
0°-40°	3561.9	74.0
0°-60°	4397.1	91.4
0°-90°	4811.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4811.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3990	
5°	3866	360
15°	3340	942
25°	2898	1314
35°	1482	946
45°	598	469
55°	413	367
65°	250	248
75°	120	129
85°	32	37
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3989.6
2.5°	3953.9
5°	3866.2
7.5°	3742.7
10°	3596.5
12.5°	3460.1
15°	3339.9
17.5°	3226.2
20°	3125.4
22.5°	3024.7
25°	2898.0
27.5°	2716.0
30°	2459.4
32.5°	2056.5
35°	1481.5
37.5°	1010.4
40°	773.2
42.5°	666.0
45°	597.8
47.5°	539.3
50°	490.5
52.5°	448.3
55°	412.6
57.5°	370.4
60°	328.1
62.5°	285.9
65°	250.2
67.5°	214.4
70°	178.7
72.5°	149.5
75°	120.2
77.5°	94.2
80°	71.5
82.5°	52.0
85°	32.5
87.5°	16.3
90°	0.0



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— 0°-180°







(END OF REPORT)