

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: P593857

Luminaire Tested: **HC860D010-HM86080850-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593857  
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: HC860D010-HM86080850-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7180.4 lumens  
Efficiency: N/A  
Efficacy: 128.2 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

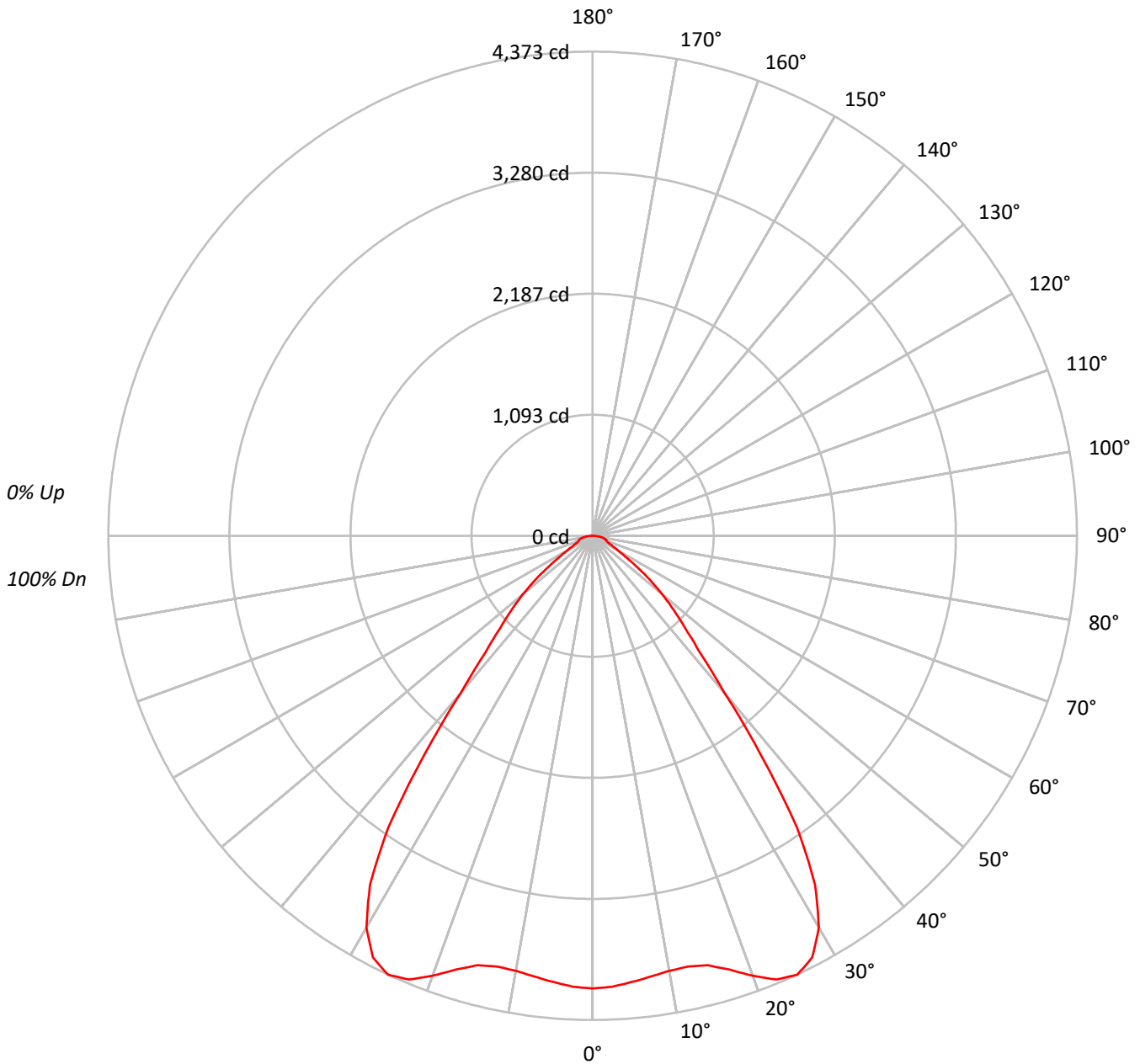
Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			65
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			38

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

	0°
0°	126105
5°	125237
10°	124913
15°	128188
20°	138779
25°	148784
30°	145461
35°	121120
40°	74413
45°	51524
50°	39318
55°	25784
60°	16134
65°	12083
70°	12190
75°	14035
80°	15485
85°	13869



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	384.4	5.4
10°-20°	1152.7	16.1
20°-30°	1984.4	27.6
30°-40°	1922.5	26.8
40°-50°	946.9	13.2
50°-60°	446.9	6.2
60°-70°	176.1	2.5
70°-80°	121.5	1.7
80°-90°	45.1	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°	3521.5	49.0
0°-40°	5444.0	75.8
0°-60°	6837.8	95.2
0°-90°	7180.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7180.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4090	
5°	4046	384
15°	4015	1153
25°	4373	1984
35°	3218	1923
45°	1182	947
55°	480	447
65°	166	176
75°	118	121
85°	39	45
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4089.5
2.5°	4076.5
5°	4045.9
7.5°	4015.4
10°	3989.3
12.5°	3984.9
15°	4015.4
17.5°	4107.0
20°	4229.1
22.5°	4338.1
25°	4372.9
27.5°	4294.5
30°	4085.2
32.5°	3740.7
35°	3217.5
37.5°	2498.1
40°	1848.6
42.5°	1434.4
45°	1181.5
47.5°	994.0
50°	819.6
52.5°	645.2
55°	479.6
57.5°	348.8
60°	261.6
62.5°	205.0
65°	165.6
67.5°	143.8
70°	135.2
72.5°	126.4
75°	117.8
77.5°	104.6
80°	87.2
82.5°	65.4
85°	39.2
87.5°	17.4
90°	0.0



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— 0°-180°







(END OF REPORT)