

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: P585124

Luminaire Tested: **HC860D010-HM86080927-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585124  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC860D010-HM86080927-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4066.1 lumens  
Efficiency: N/A  
Efficacy: 72.6 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

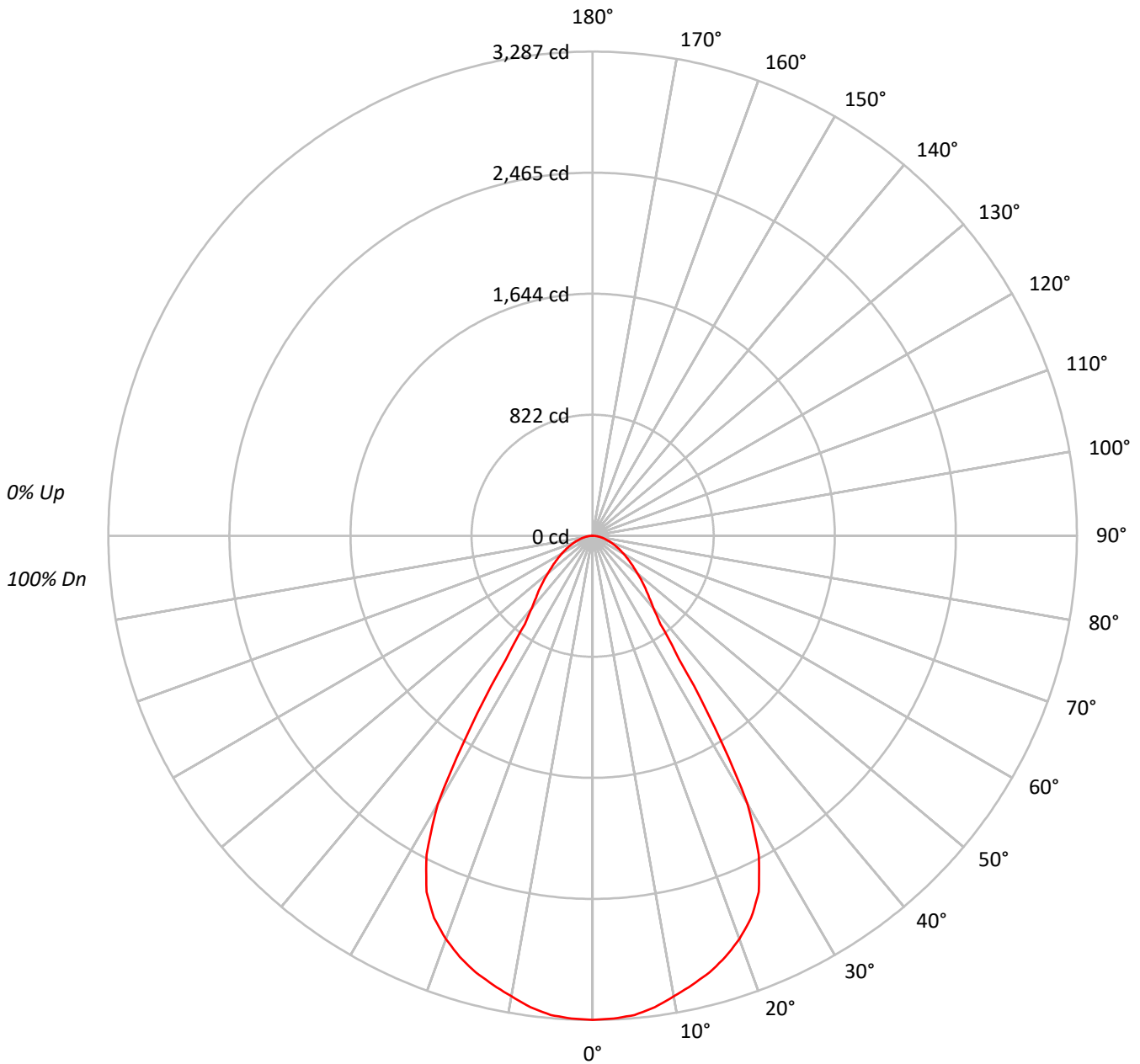
Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			81
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			73
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			56
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			48
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			45
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			42

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

	0°
0°	101350
5°	101081
10°	99397
15°	97943
20°	95594
25°	90746
30°	74849
35°	38533
40°	25799
45°	22123
50°	19088
55°	16655
60°	14801
65°	13294
70°	12054
75°	10854
80°	9714
85°	9659



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.8	7.6
10°-20°	863.2	21.2
20°-30°	1196.0	29.4
30°-40°	718.4	17.7
40°-50°	393.3	9.7
50°-60°	279.4	6.9
60°-70°	181.4	4.5
70°-80°	96.9	2.4
80°-90°	28.9	0.7
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°	2367.9	58.2
0°-40°	3086.3	75.9
0°-60°	3758.9	92.4
0°-90°	4066.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4066.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3287	
5°	3266	309
15°	3068	863
25°	2667	1196
35°	1024	718
45°	507	393
55°	310	279
65°	182	181
75°	91	97
85°	27	29
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3286.7
2.5°	3280.7
5°	3265.5
7.5°	3229.1
10°	3174.4
12.5°	3122.7
15°	3068.0
17.5°	2998.1
20°	2913.1
22.5°	2809.9
25°	2667.1
27.5°	2442.3
30°	2102.1
32.5°	1540.1
35°	1023.6
37.5°	756.4
40°	640.9
42.5°	568.0
45°	507.3
47.5°	449.6
50°	397.9
52.5°	349.4
55°	309.8
57.5°	273.4
60°	240.0
62.5°	209.6
65°	182.2
67.5°	154.9
70°	133.7
72.5°	109.3
75°	91.1
77.5°	72.9
80°	54.7
82.5°	39.4
85°	27.3
87.5°	12.1
90°	0.0



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— 0°-180°







(END OF REPORT)