

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: P585090

Luminaire Tested: **HC860D010-HM86080835-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585090  
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-HM86080835-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5574.3 lumens  
Efficiency: N/A  
Efficacy: 99.5 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

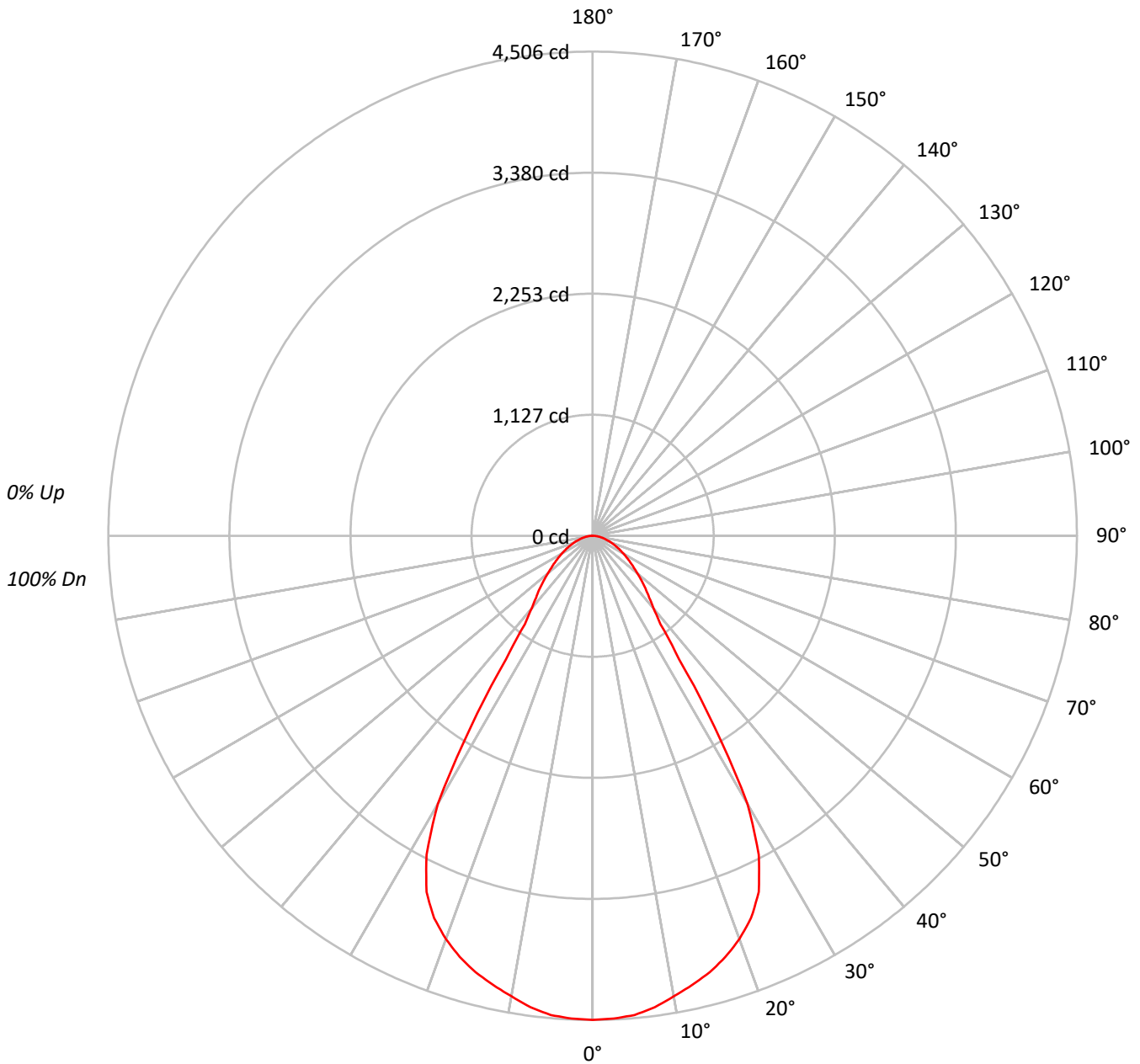
Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	138945
5°	138572
10°	136264
15°	134273
20°	131051
25°	124402
30°	102611
35°	52826
40°	35371
45°	30330
50°	26174
55°	22838
60°	20284
65°	18227
70°	16526
75°	14881
80°	13318
85°	13268



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	423.3	7.6
10°-20°	1183.4	21.2
20°-30°	1639.6	29.4
30°-40°	984.8	17.7
40°-50°	539.2	9.7
50°-60°	383.0	6.9
60°-70°	248.6	4.5
70°-80°	132.9	2.4
80°-90°	39.6	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°	3246.2	58.2
0°-40°	4231.0	75.9
0°-60°	5153.2	92.4
0°-90°	5574.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5574.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4506	
5°	4477	423
15°	4206	1183
25°	3656	1640
35°	1403	985
45°	696	539
55°	425	383
65°	250	249
75°	125	133
85°	38	40
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4505.9
2.5°	4497.5
5°	4476.7
7.5°	4426.7
10°	4351.8
12.5°	4281.0
15°	4206.0
17.5°	4110.3
20°	3993.6
22.5°	3852.0
25°	3656.3
27.5°	3348.1
30°	2881.8
32.5°	2111.3
35°	1403.3
37.5°	1036.9
40°	878.7
42.5°	778.8
45°	695.5
47.5°	616.4
50°	545.6
52.5°	478.9
55°	424.8
57.5°	374.7
60°	328.9
62.5°	287.3
65°	249.8
67.5°	212.3
70°	183.3
72.5°	149.9
75°	124.9
77.5°	100.0
80°	75.0
82.5°	54.1
85°	37.5
87.5°	16.6
90°	0.0



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— 0°-180°







(END OF REPORT)