

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: P585055

Luminaire Tested: **HC860D010-HM86080827-81NDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585055  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC860D010-HM86080827-81NDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4720.9 lumens  
Efficiency: N/A  
Efficacy: 84.3 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

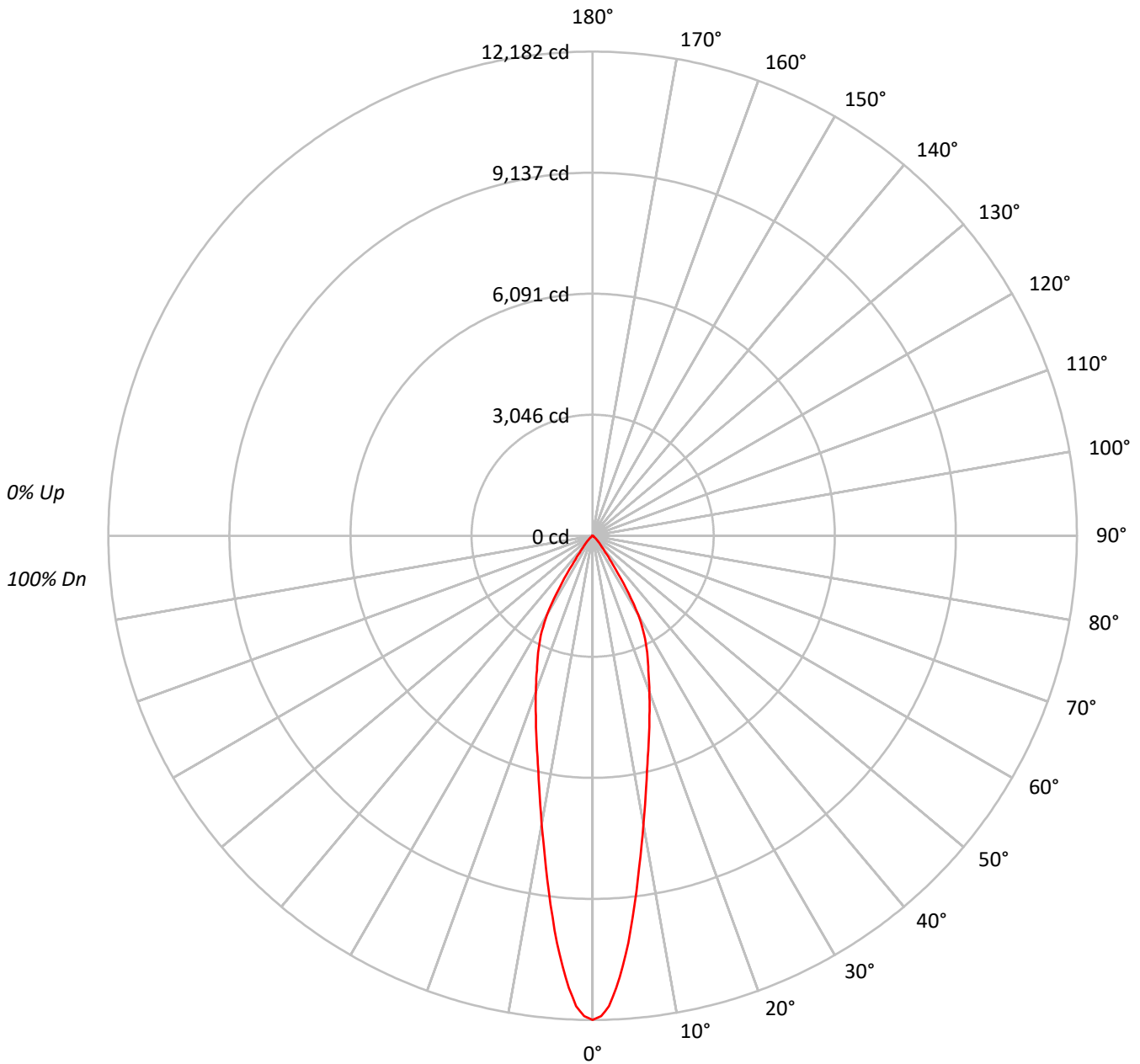
Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89			
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84			
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80			
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75			
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72			
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68			
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65			
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62			
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59			

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

	0°
0°	375636
5°	318242
10°	230898
15°	173399
20°	136814
25°	110357
30°	81781
35°	33134
40°	13976
45°	7496
50°	3363
55°	1699
60°	1079
65°	766
70°	631
75°	417
80°	622
85°	1238



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	882.7	18.7
10°-20°	1525.5	32.3
20°-30°	1475.0	31.2
30°-40°	647.8	13.7
40°-50°	140.0	3.0
50°-60°	31.5	0.7
60°-70°	10.8	0.2
70°-80°	4.2	0.1
80°-90°	3.3	0.1
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°	3883.2	82.3
0°-40°	4531.1	96.0
0°-60°	4702.6	99.6
0°-90°	4720.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4720.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	12182	
5°	10281	883
15°	5432	1526
25°	3244	1475
35°	880	648
45°	172	140
55°	32	31
65°	10	11
75°	4	4
85°	4	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	12181.6
1°	12090.4
2°	11841.5
3°	11392.7
4°	10856.1
5°	10281.1
6°	9653.4
7°	9022.2
8°	8429.6
9°	7879.1
10°	7374.1
11°	6897.3
12°	6469.5
13°	6080.3
14°	5736.7
15°	5431.6
17.5°	4747.9
20°	4169.2
22.5°	3660.8
25°	3243.5
27.5°	2819.3
30°	2296.8
32.5°	1560.4
35°	880.2
37.5°	518.9
40°	347.2
42.5°	245.4
45°	171.9
47.5°	112.2
50°	70.1
52.5°	42.1
55°	31.6
57.5°	24.6
60°	17.5
62.5°	14.1
65°	10.5
67.5°	7.0
70°	7.0
72.5°	3.5
75°	3.5
77.5°	3.5
80°	3.5
82.5°	3.5



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**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



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— 0°-180°







85°	3.5
87.5°	3.5



(END OF REPORT)