

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: P583666

Luminaire Tested: **HC807D010-HM80520935-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583666  
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: HC807D010-HM80520935-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 795.9 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

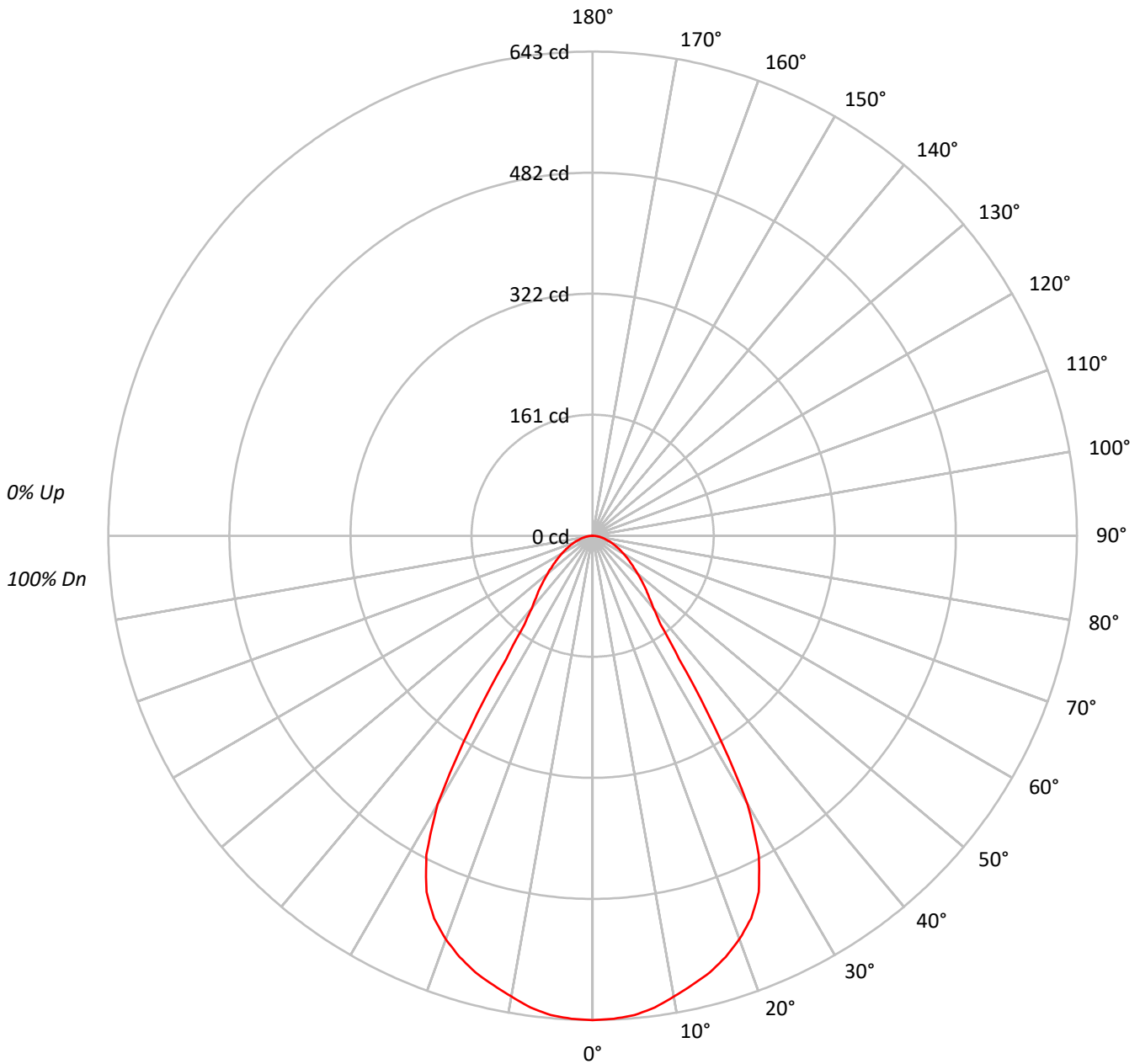
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
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°	19837
5°	19783
10°	19454
15°	19170
20°	18708
25°	17761
30°	14649
35°	7544
40°	5052
45°	4330
50°	3737
55°	3258
60°	2899
65°	2598
70°	2362
75°	2121
80°	1918
85°	1911



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.4	7.6
10°-20°	168.9	21.2
20°-30°	234.1	29.4
30°-40°	140.6	17.7
40°-50°	77.0	9.7
50°-60°	54.7	6.9
60°-70°	35.5	4.5
70°-80°	19.0	2.4
80°-90°	5.7	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°	463.4	58.2
0°-40°	604.0	75.9
0°-60°	735.7	92.4
0°-90°	795.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	795.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	643	
5°	639	60
15°	600	169
25°	522	234
35°	200	141
45°	99	77
55°	61	55
65°	36	36
75°	18	19
85°	5	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	643.3
2.5°	642.1
5°	639.1
7.5°	631.9
10°	621.3
12.5°	611.1
15°	600.5
17.5°	586.7
20°	570.1
22.5°	549.9
25°	522.0
27.5°	478.0
30°	411.4
32.5°	301.4
35°	200.4
37.5°	148.1
40°	125.5
42.5°	111.1
45°	99.3
47.5°	88.0
50°	77.9
52.5°	68.4
55°	60.6
57.5°	53.5
60°	47.0
62.5°	41.0
65°	35.6
67.5°	30.4
70°	26.2
72.5°	21.4
75°	17.8
77.5°	14.2
80°	10.8
82.5°	7.8
85°	5.4
87.5°	2.4
90°	0.0



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— 0°-180°







(END OF REPORT)