

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: P583562

Luminaire Tested: **HC807D010-HM80520827-81NDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583562  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC807D010-HM80520827-81NDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 929.3 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

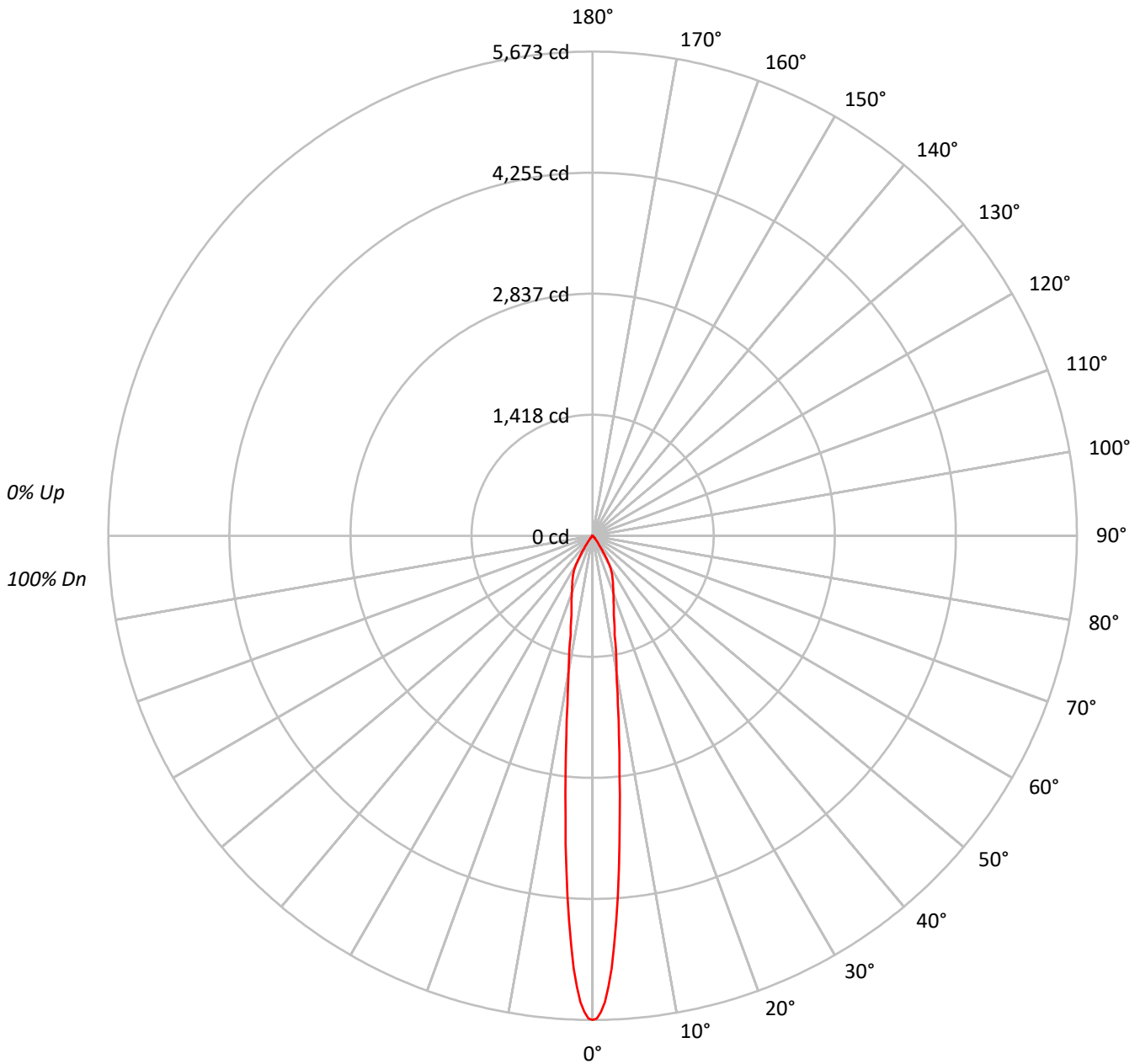
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100	100
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96	96	96	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	91
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87	87	87	87
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83	83	83	83
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80	80	80	80
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76	76	76	76
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73	73	73	73
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71	71	71	71
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68	68	68	68
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66	66	66	66

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

	0°
0°	174931
5°	112206
10°	50685
15°	30583
20°	23305
25°	18822
30°	13790
35°	4992
40°	1860
45°	846
50°	269
55°	65
60°	37
65°	44
70°	0
75°	0
80°	107
85°	212



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.5	29.8
10°-20°	280.8	30.2
20°-30°	251.4	27.0
30°-40°	101.2	10.9
40°-50°	16.6	1.8
50°-60°	1.5	0.2
60°-70°	0.5	0.1
70°-80°	0.4	0.0
80°-90°	0.6	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°	808.6	87.0
0°-40°	909.9	97.9
0°-60°	928.0	99.9
0°-90°	929.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	929.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5673	
5°	3625	276
15°	958	281
25°	553	251
35°	133	101
45°	19	17
55°	1	1
65°	1	1
75°	0	0
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5672.9
0.5°	5655.5
1°	5582.2
1.5°	5464.6
2°	5286.2
2.5°	5075.4
3°	4811.3
3.5°	4521.6
4°	4235.0
4.5°	3914.0
5°	3624.9
5.5°	3310.2
6°	3054.9
6.5°	2788.9
7°	2579.9
7.5°	2359.0
8°	2181.4
8.5°	2002.9
9°	1869.1
9.5°	1721.4
10°	1618.7
12.5°	1193.9
15°	958.0
17.5°	818.5
20°	710.2
22.5°	623.9
25°	553.2
27.5°	482.4
30°	387.3
32.5°	249.0
35°	132.6
37.5°	73.3
40°	46.2
42.5°	30.7
45°	19.4
47.5°	11.8
50°	5.6
52.5°	1.9
55°	1.2
57.5°	0.6
60°	0.6
62.5°	0.6
65°	0.6



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**CANDELA DISTRIBUTION (continued):**

	0°
72.5°	0.0
75°	0.0
77.5°	0.6
80°	0.6
82.5°	0.6
85°	0.6
87.5°	0.6
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







67.5°		0.6
70°		0.0



(END OF REPORT)