

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: P583494

Luminaire Tested: **HC805D010-HM80520927-81NDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583494  
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: HC805D010-HM80520927-81NDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 572.0 lumens  
Efficiency: N/A  
Efficacy: 95.3 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

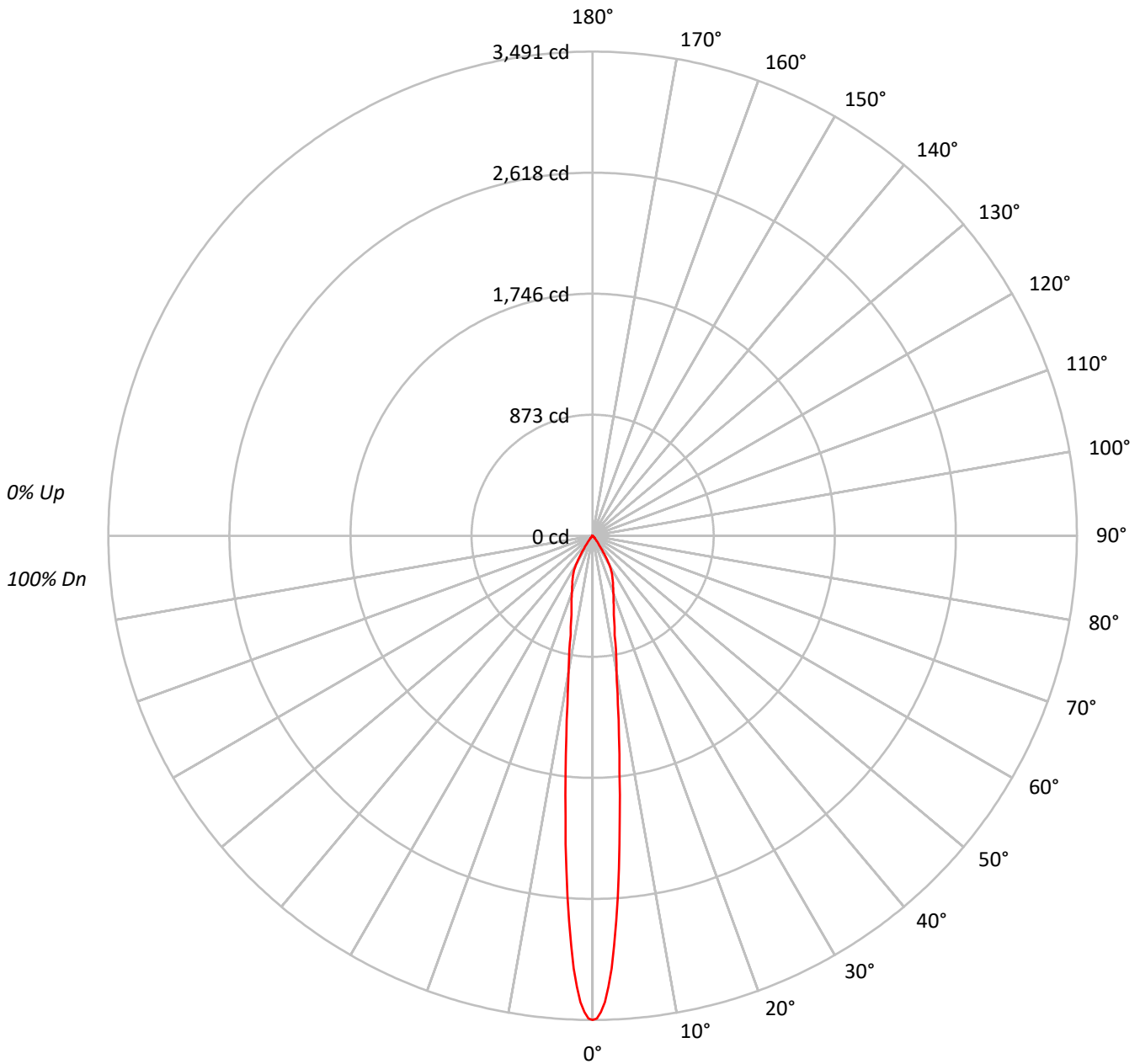
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	106	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°	107653
5°	69049
10°	31190
15°	18819
20°	14340
25°	11582
30°	8485
35°	3072
40°	1147
45°	523
50°	168
55°	38
60°	25
65°	29
70°	0
75°	0
80°	71
85°	142



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.1	29.7
10°-20°	172.8	30.2
20°-30°	154.7	27.0
30°-40°	62.3	10.9
40°-50°	10.2	1.8
50°-60°	0.9	0.2
60°-70°	0.3	0.1
70°-80°	0.3	0.0
80°-90°	0.4	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°	497.6	87.0
0°-40°	559.9	97.9
0°-60°	571.1	99.8
0°-90°	572.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	572.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3491	
5°	2231	170
15°	590	173
25°	340	155
35°	82	62
45°	12	10
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3491.1
0.5°	3480.3
1°	3435.3
1.5°	3362.9
2°	3253.1
2.5°	3123.3
3°	2960.8
3.5°	2782.5
4°	2606.2
4.5°	2408.6
5°	2230.7
5.5°	2037.1
6°	1879.9
6.5°	1716.3
7°	1587.7
7.5°	1451.7
8°	1342.3
8.5°	1232.7
9°	1150.2
9.5°	1059.3
10°	996.1
12.5°	734.7
15°	589.5
17.5°	503.7
20°	437.0
22.5°	383.9
25°	340.4
27.5°	296.9
30°	238.3
32.5°	153.2
35°	81.6
37.5°	45.0
40°	28.5
42.5°	18.9
45°	12.0
47.5°	7.3
50°	3.5
52.5°	1.2
55°	0.7
57.5°	0.4
60°	0.4
62.5°	0.4
65°	0.4



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**CANDELA DISTRIBUTION (continued):**

	0°
72.5°	0.0
75°	0.0
77.5°	0.4
80°	0.4
82.5°	0.4
85°	0.4
87.5°	0.4
90°	0.0



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— 0°-180°







67.5°		0.4
70°		0.0



(END OF REPORT)