

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: P584887

Luminaire Tested: **HC850D010-HM82555935-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584887  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC850D010-HM82555935-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4979.2 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

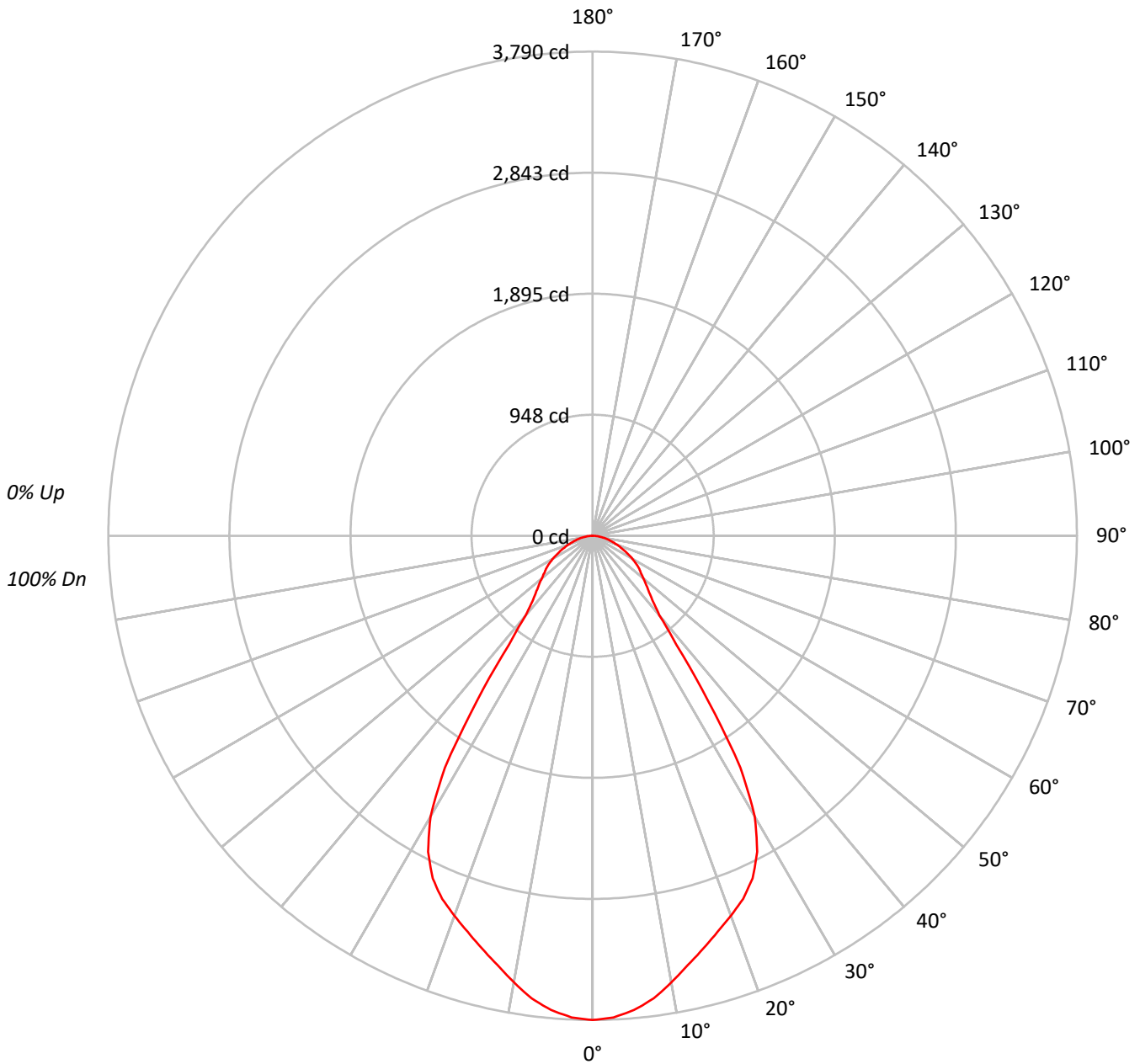
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

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

	0°
0°	116876
5°	115357
10°	111133
15°	106783
20°	103831
25°	100708
30°	90370
35°	59241
40°	32751
45°	27304
50°	24898
55°	23763
60°	22097
65°	20036
70°	18122
75°	16346
80°	14863
85°	14223



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	350.1	7.0
10°-20°	943.7	19.0
20°-30°	1343.0	27.0
30°-40°	994.0	20.0
40°-50°	492.3	9.9
50°-60°	392.9	7.9
60°-70°	272.8	5.5
70°-80°	147.0	3.0
80°-90°	43.3	0.9
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°	2636.9	53.0
0°-40°	3630.9	72.9
0°-60°	4516.1	90.7
0°-90°	4979.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4979.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3790	
5°	3727	350
15°	3345	944
25°	2960	1343
35°	1574	994
45°	626	492
55°	442	393
65°	275	273
75°	137	147
85°	40	43
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3790.2
2.5°	3773.5
5°	3726.7
7.5°	3652.9
10°	3549.2
12.5°	3442.0
15°	3344.9
17.5°	3251.1
20°	3164.1
22.5°	3077.0
25°	2959.9
27.5°	2789.1
30°	2538.0
32.5°	2152.9
35°	1573.7
37.5°	1074.8
40°	813.6
42.5°	696.5
45°	626.1
47.5°	569.2
50°	519.0
52.5°	475.4
55°	442.0
57.5°	401.8
60°	358.3
62.5°	314.7
65°	274.6
67.5°	234.4
70°	201.0
72.5°	167.4
75°	137.2
77.5°	110.5
80°	83.7
82.5°	60.3
85°	40.2
87.5°	16.7
90°	0.0



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— 0°-180°







(END OF REPORT)