

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: P584394

Luminaire Tested: **HC835D010-HM82555830-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584394  
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: HC835D010-HM82555830-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3877.3 lumens  
Efficiency: N/A  
Efficacy: 115.1 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

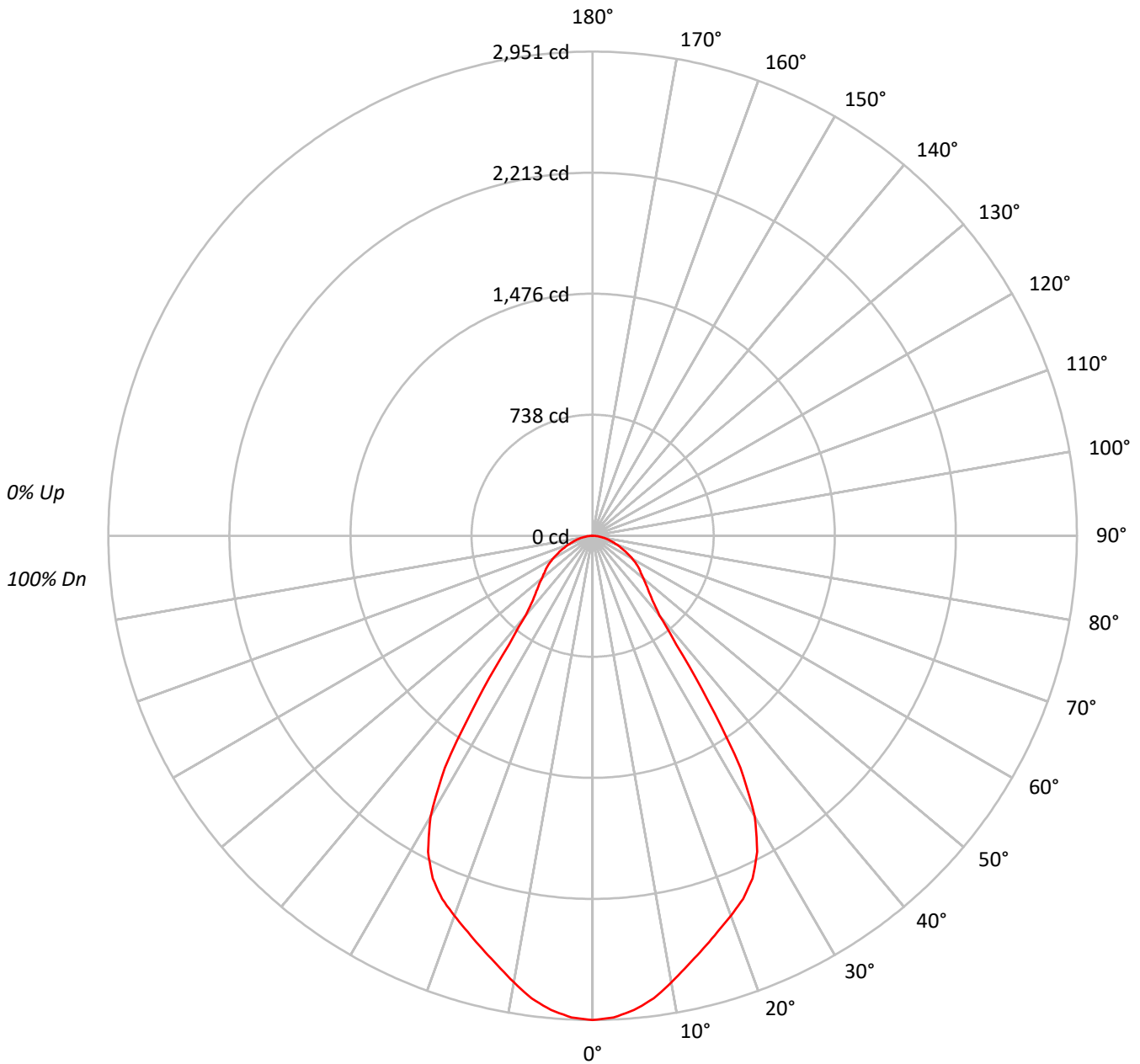
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			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°	91010
5°	89823
10°	86537
15°	83150
20°	80850
25°	78419
30°	70366
35°	46129
40°	25501
45°	21264
50°	19386
55°	18505
60°	17207
65°	15600
70°	14110
75°	12736
80°	11578
85°	11074



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.6	7.0
10°-20°	734.8	19.0
20°-30°	1045.8	27.0
30°-40°	774.0	20.0
40°-50°	383.4	9.9
50°-60°	306.0	7.9
60°-70°	212.4	5.5
70°-80°	114.4	3.0
80°-90°	33.7	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°	2053.3	53.0
0°-40°	2827.3	72.9
0°-60°	3516.7	90.7
0°-90°	3877.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3877.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2951	
5°	2902	273
15°	2605	735
25°	2305	1046
35°	1225	774
45°	488	383
55°	344	306
65°	214	212
75°	107	114
85°	31	34
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2951.4
2.5°	2938.3
5°	2901.8
7.5°	2844.5
10°	2763.7
12.5°	2680.3
15°	2604.6
17.5°	2531.6
20°	2463.8
22.5°	2396.0
25°	2304.8
27.5°	2171.9
30°	1976.2
32.5°	1676.5
35°	1225.4
37.5°	836.9
40°	633.5
42.5°	542.3
45°	487.6
47.5°	443.3
50°	404.1
52.5°	370.2
55°	344.2
57.5°	312.9
60°	279.0
62.5°	245.1
65°	213.8
67.5°	182.5
70°	156.5
72.5°	130.3
75°	106.9
77.5°	86.0
80°	65.2
82.5°	47.0
85°	31.3
87.5°	13.1
90°	0.0



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— 0°-180°







(END OF REPORT)