

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: P584496

Luminaire Tested: **HC835D010-HM82555940-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584496  
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-HM82555940-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4236.6 lumens  
Efficiency: N/A  
Efficacy: 125.7 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

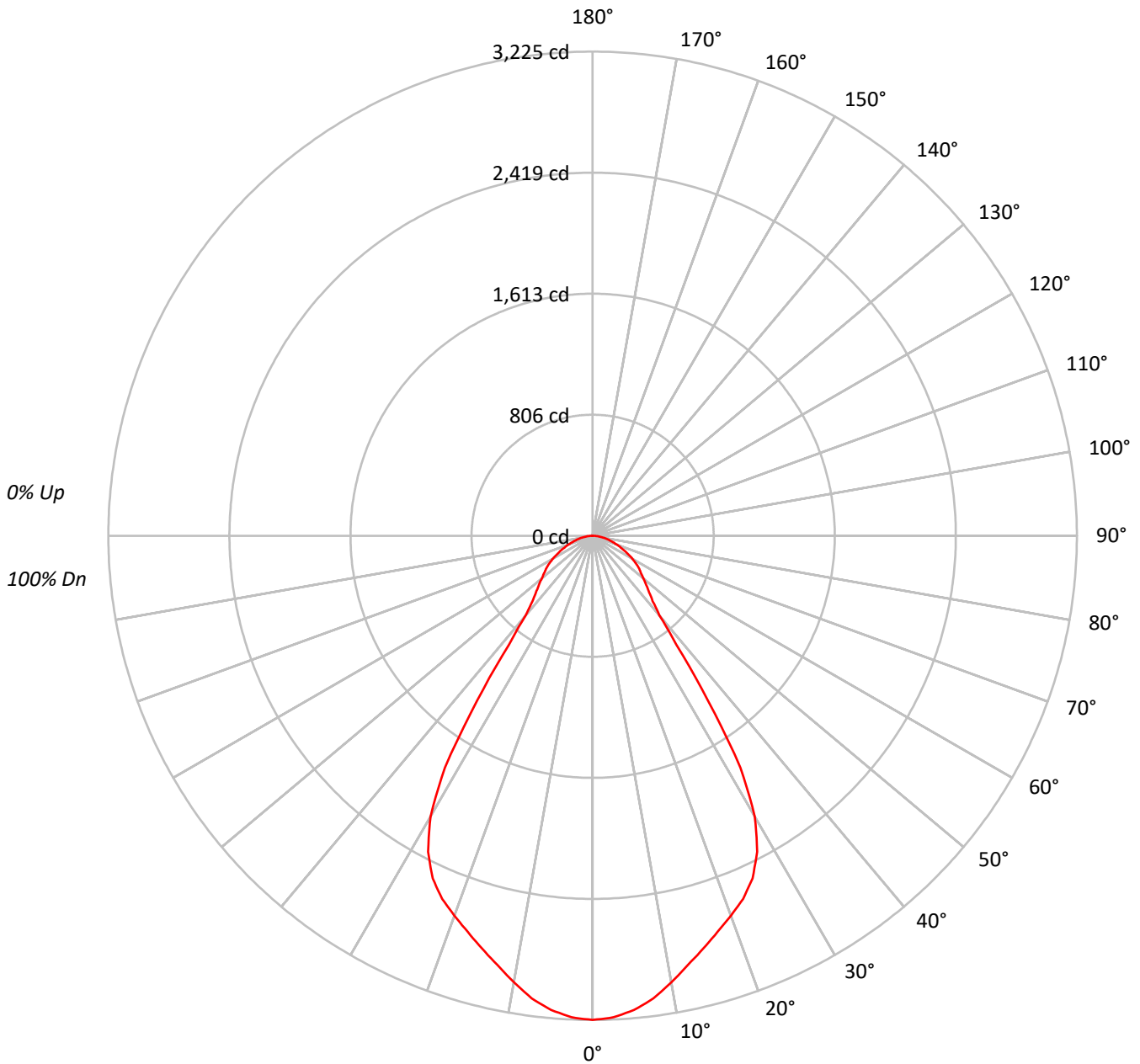
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	99444
5°	98146
10°	94556
15°	90856
20°	88342
25°	85686
30°	76889
35°	50406
40°	27868
45°	23235
50°	21185
55°	20220
60°	18798
65°	17045
70°	15417
75°	13916
80°	12661
85°	12065



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.9	7.0
10°-20°	802.9	19.0
20°-30°	1142.7	27.0
30°-40°	845.8	20.0
40°-50°	418.9	9.9
50°-60°	334.4	7.9
60°-70°	232.1	5.5
70°-80°	125.1	3.0
80°-90°	36.8	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°	2243.6	53.0
0°-40°	3089.3	72.9
0°-60°	3842.6	90.7
0°-90°	4236.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4236.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3225	
5°	3171	298
15°	2846	803
25°	2518	1143
35°	1339	846
45°	533	419
55°	376	334
65°	234	232
75°	117	125
85°	34	37
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3224.9
2.5°	3210.6
5°	3170.7
7.5°	3108.1
10°	3019.8
12.5°	2928.6
15°	2846.0
17.5°	2766.2
20°	2692.1
22.5°	2618.1
25°	2518.4
27.5°	2373.1
30°	2159.4
32.5°	1831.9
35°	1339.0
37.5°	914.4
40°	692.3
42.5°	592.5
45°	532.8
47.5°	484.4
50°	441.6
52.5°	404.6
55°	376.1
57.5°	341.9
60°	304.8
62.5°	267.8
65°	233.6
67.5°	199.5
70°	171.0
72.5°	142.4
75°	116.8
77.5°	94.0
80°	71.3
82.5°	51.3
85°	34.1
87.5°	14.3
90°	0.0



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— 0°-180°







(END OF REPORT)