

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: P584479

Luminaire Tested: **HC835D010-HM82555935-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584479  
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-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: 3832.8 lumens  
Efficiency: N/A  
Efficacy: 113.7 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

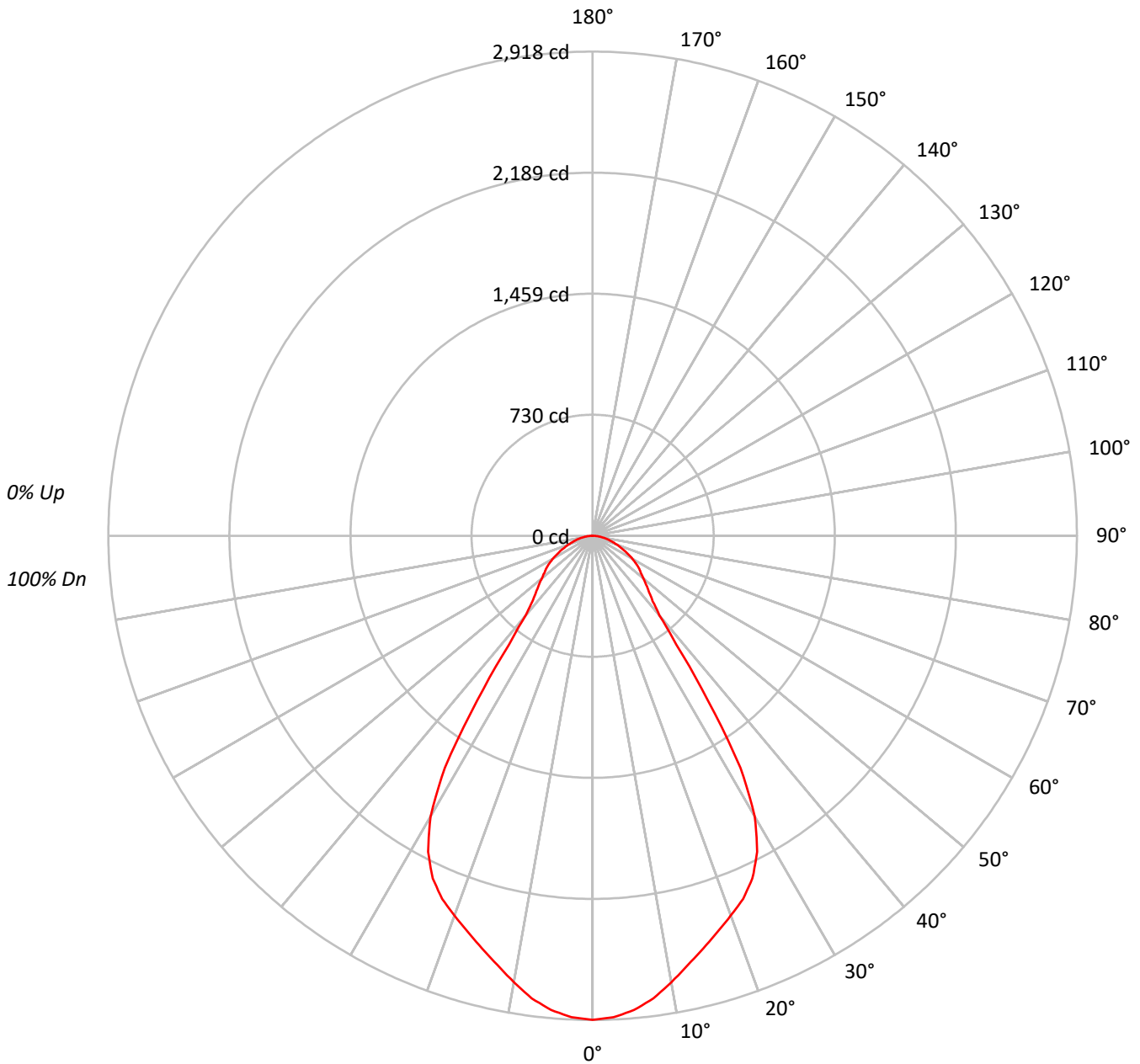
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	89965
5°	88792
10°	85541
15°	82195
20°	79922
25°	77521
30°	69561
35°	45598
40°	25211
45°	21020
50°	19165
55°	18290
60°	17009
65°	15417
70°	13948
75°	12593
80°	11454
85°	10933



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.5	7.0
10°-20°	726.4	19.0
20°-30°	1033.8	27.0
30°-40°	765.1	20.0
40°-50°	379.0	9.9
50°-60°	302.5	7.9
60°-70°	209.9	5.5
70°-80°	113.2	3.0
80°-90°	33.3	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°	2029.7	53.0
0°-40°	2794.9	72.9
0°-60°	3476.3	90.7
0°-90°	3832.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3832.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2918	
5°	2868	270
15°	2575	726
25°	2278	1034
35°	1211	765
45°	482	379
55°	340	302
65°	211	210
75°	106	113
85°	31	33
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2917.5
2.5°	2904.7
5°	2868.5
7.5°	2811.8
10°	2731.9
12.5°	2649.5
15°	2574.7
17.5°	2502.6
20°	2435.5
22.5°	2368.6
25°	2278.4
27.5°	2146.9
30°	1953.6
32.5°	1657.2
35°	1211.3
37.5°	827.3
40°	626.3
42.5°	536.1
45°	482.0
47.5°	438.1
50°	399.5
52.5°	366.0
55°	340.2
57.5°	309.3
60°	275.8
62.5°	242.2
65°	211.3
67.5°	180.4
70°	154.7
72.5°	128.9
75°	105.7
77.5°	85.1
80°	64.5
82.5°	46.4
85°	30.9
87.5°	12.9
90°	0.0



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— 0°-180°







(END OF REPORT)