

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: P584502

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584502  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC835D010-HM82555940-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4376.1 lumens  
Efficiency: N/A  
Efficacy: 129.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

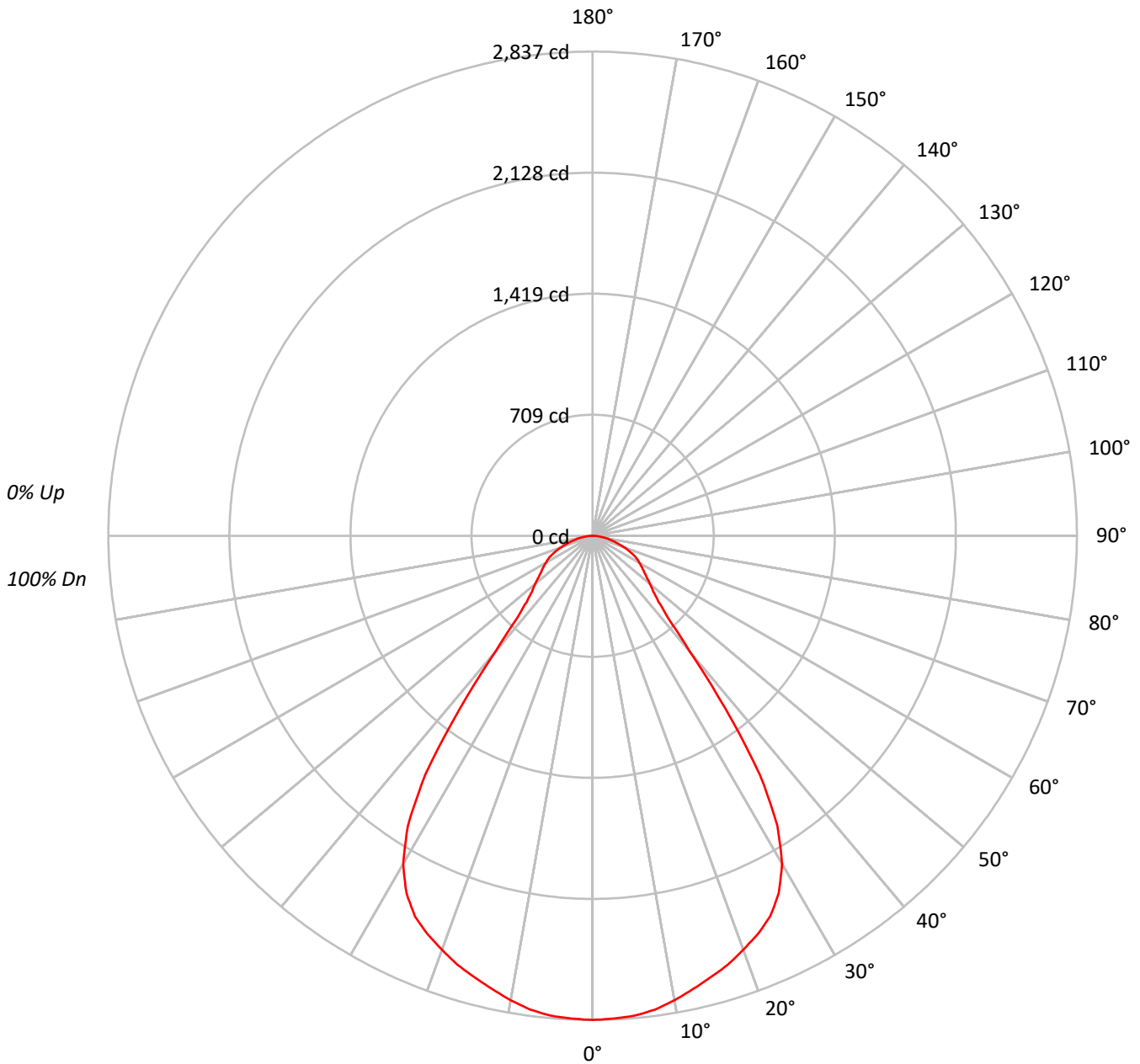
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

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

	0°
0°	87489
5°	87383
10°	86518
15°	85480
20°	84693
25°	83740
30°	79015
35°	64341
40°	35544
45°	23728
50°	21046
55°	19752
60°	19501
65°	19328
70°	17464
75°	15620
80°	13656
85°	12065



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.5	6.1
10°-20°	756.1	17.3
20°-30°	1123.4	25.7
30°-40°	1011.7	23.1
40°-50°	448.5	10.2
50°-60°	332.1	7.6
60°-70°	258.3	5.9
70°-80°	140.0	3.2
80°-90°	38.3	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°	2147.0	49.1
0°-40°	3158.8	72.2
0°-60°	3939.4	90.0
0°-90°	4376.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4376.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2837	
5°	2823	268
15°	2678	756
25°	2461	1123
35°	1709	1012
45°	544	449
55°	367	332
65°	265	258
75°	131	140
85°	34	38
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2837.2
2.5°	2831.5
5°	2823.0
7.5°	2800.1
10°	2763.1
12.5°	2720.4
15°	2677.6
17.5°	2634.9
20°	2580.9
22.5°	2526.7
25°	2461.2
27.5°	2361.5
30°	2219.1
32.5°	2014.0
35°	1709.2
37.5°	1276.1
40°	883.0
42.5°	652.3
45°	544.1
47.5°	481.4
50°	438.7
52.5°	398.8
55°	367.4
57.5°	341.8
60°	316.2
62.5°	293.4
65°	264.9
67.5°	230.7
70°	193.7
72.5°	162.3
75°	131.1
77.5°	102.5
80°	76.9
82.5°	54.1
85°	34.1
87.5°	14.3
90°	0.0



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— 0°-180°







(END OF REPORT)