

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: P584416

Luminaire Tested: **HC835D010-HM82555835-81WDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584416  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC835D010-HM82555835-81WDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4397.3 lumens  
Efficiency: N/A  
Efficacy: 130.5 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

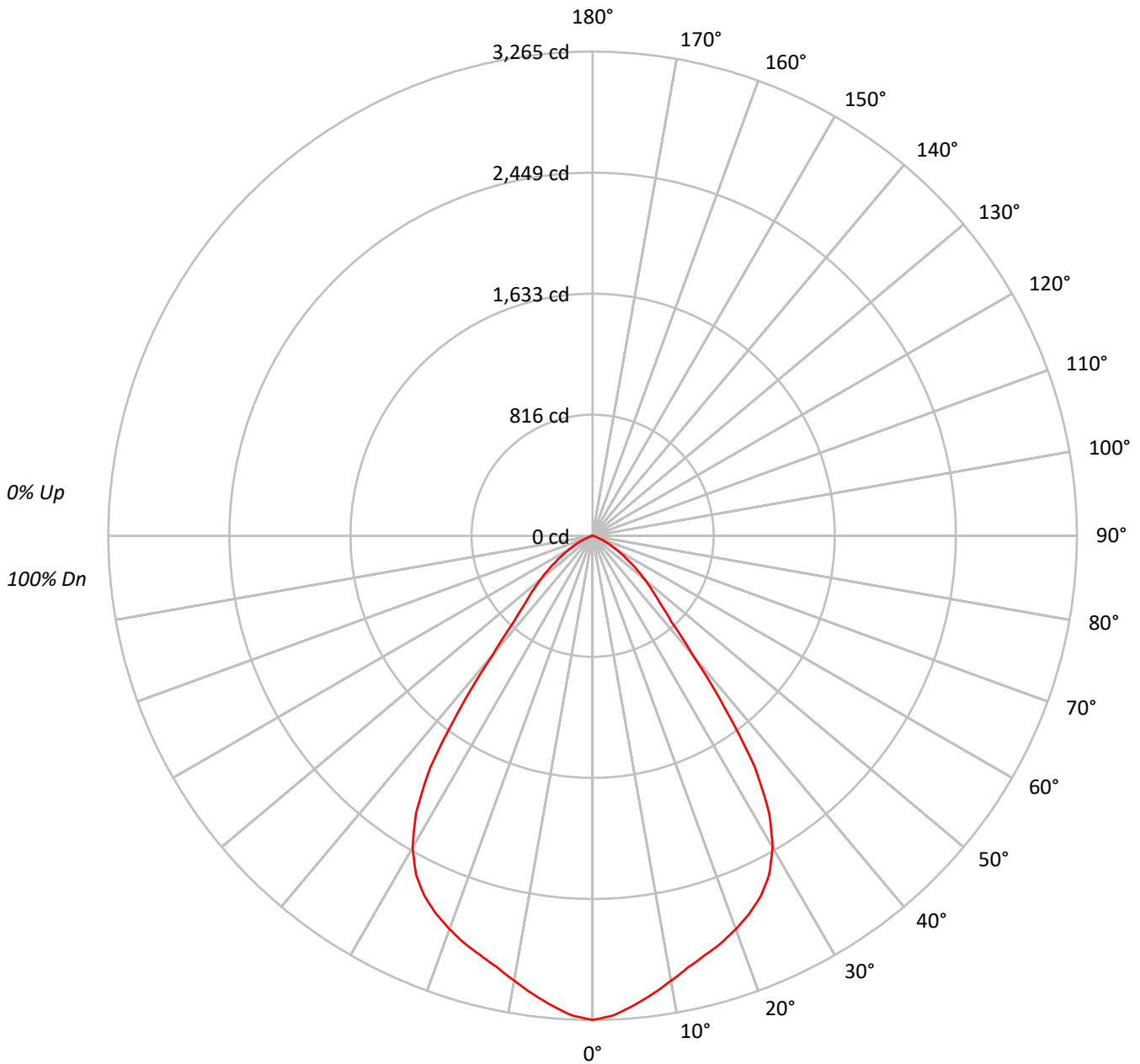
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P584416

CATALOG NUMBER: HC835D010-HM82555835-81WDH

### Luminous Intensity Polar Plot





TEST NUMBER: P584416

CATALOG NUMBER: HC835D010-HM82555835-81WDH

**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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			92
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			75
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68			68
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62			62
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57			57
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52			52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			48
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44			44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41			41

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

	0°
0°	100671
5°	98403
10°	95389
15°	93455
20°	92618
25°	91236
30°	86421
35°	71806
40°	42283
45°	27967
50°	22010
55°	16198
60°	11255
65°	6859
70°	2993
75°	1311
80°	977
85°	0



TEST NUMBER: P584416

CATALOG NUMBER: HC835D010-HM82555835-81WDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.4	6.8
10°-20°	827.6	18.8
20°-30°	1226.2	27.9
30°-40°	1133.1	25.8
40°-50°	522.4	11.9
50°-60°	274.7	6.2
60°-70°	97.1	2.2
70°-80°	15.3	0.3
80°-90°	1.5	0.0
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°	2353.2	53.5
0°-40°	3486.3	79.3
0°-60°	4283.5	97.4
0°-90°	4397.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4397.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3265	
5°	3179	299
15°	2927	828
25°	2682	1226
35°	1908	1133
45°	641	522
55°	301	275
65°	94	97
75°	11	15
85°	0	2
90°	0	



TEST NUMBER: P584416

CATALOG NUMBER: HC835D010-HM82555835-81WDH

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3264.7
2.5°	3237.1
5°	3179.0
7.5°	3115.4
10°	3046.4
12.5°	2980.0
15°	2927.4
17.5°	2880.5
20°	2822.4
22.5°	2758.9
25°	2681.5
27.5°	2576.4
30°	2427.1
32.5°	2214.3
35°	1907.5
37.5°	1465.2
40°	1050.4
42.5°	787.8
45°	641.3
47.5°	544.6
50°	458.8
52.5°	375.9
55°	301.3
57.5°	237.7
60°	182.5
62.5°	138.2
65°	94.0
67.5°	55.2
70°	33.2
72.5°	19.4
75°	11.0
77.5°	8.3
80°	5.5
82.5°	2.8
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)