

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: P584389

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC835D010-HM82555830-81MDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3851.2 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

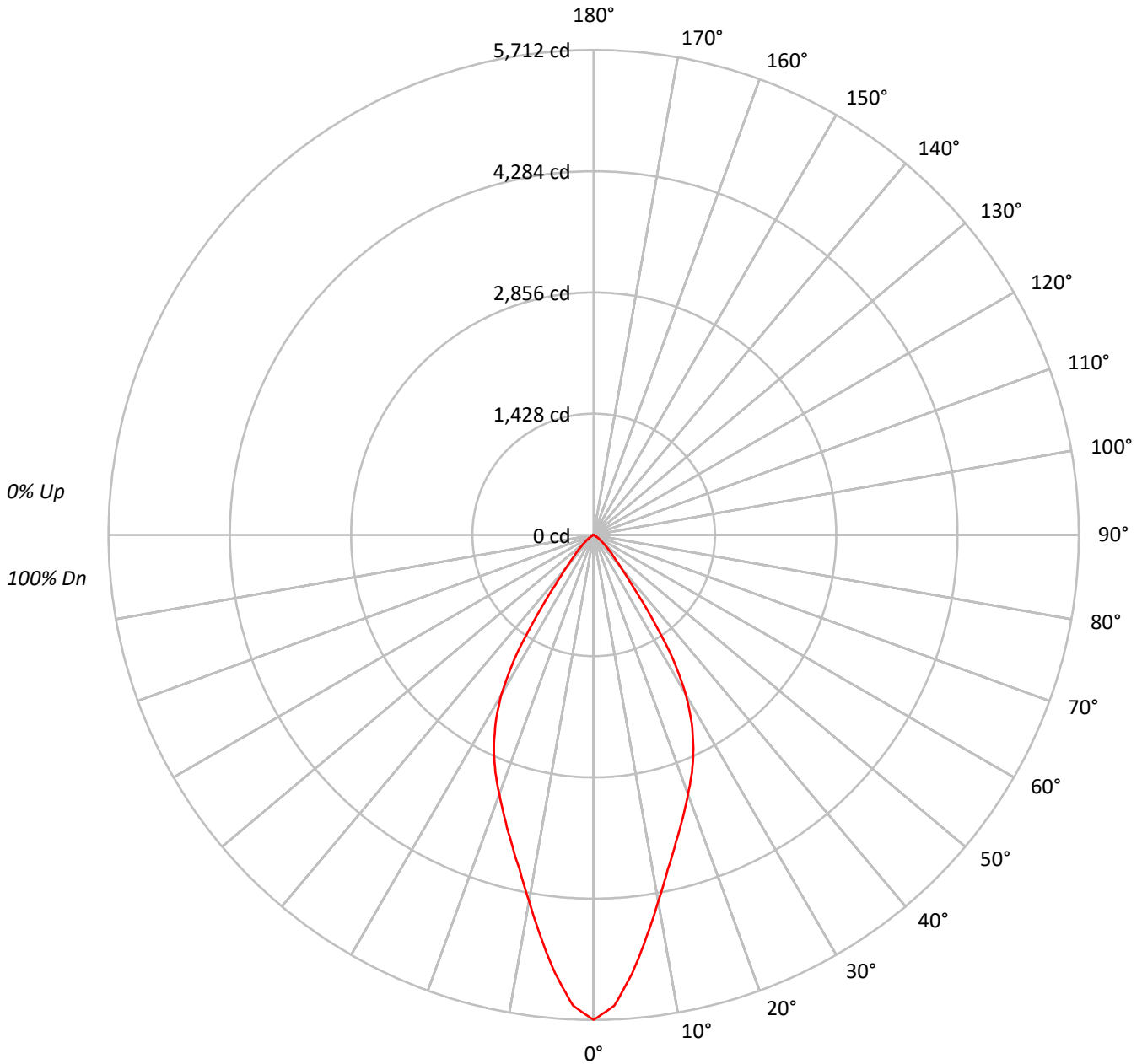
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584389

CATALOG NUMBER: HC835D010-HM82555830-81MDH

Luminous Intensity Polar Plot





TEST NUMBER: P584389

CATALOG NUMBER: HC835D010-HM82555830-81MDH

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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76			
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71			
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58			
9	76	67	61	57	75	66	61	57	65	60	56	64	60	56	63	59	56	55			
10	73	63	57	54	72	63	57	53	62	57	53	61	56	53	60	56	53	52			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	176122
5°	160494
10°	137128
15°	119588
20°	106584
25°	94550
30°	77413
35°	44454
40°	19728
45°	11482
50°	6625
55°	3785
60°	2091
65°	1328
70°	938
75°	631
80°	462
85°	920



TEST NUMBER: P584389

CATALOG NUMBER: HC835D010-HM82555830-81MDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.3	12.2
10°-20°	1053.0	27.3
20°-30°	1260.4	32.7
30°-40°	762.5	19.8
40°-50°	213.7	5.5
50°-60°	66.4	1.7
60°-70°	19.0	0.5
70°-80°	5.2	0.1
80°-90°	1.8	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°	2782.7	72.3
0°-40°	3545.2	92.1
0°-60°	3825.3	99.3
0°-90°	3851.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3851.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5712	
5°	5185	469
15°	3746	1053
25°	2779	1260
35°	1181	763
45°	263	214
55°	70	66
65°	18	19
75°	5	5
85°	3	2
90°	0	



TEST NUMBER: P584389

CATALOG NUMBER: HC835D010-HM82555830-81MDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	5711.5
2.5°	5549.9
5°	5184.9
7.5°	4773.1
10°	4379.4
12.5°	4035.3
15°	3746.0
17.5°	3490.5
20°	3248.0
22.5°	3023.9
25°	2778.9
27.5°	2502.5
30°	2174.1
32.5°	1749.2
35°	1180.9
37.5°	735.1
40°	490.1
42.5°	352.0
45°	263.3
47.5°	192.9
50°	138.1
52.5°	96.4
55°	70.4
57.5°	47.0
60°	33.9
62.5°	23.5
65°	18.2
67.5°	13.1
70°	10.4
72.5°	5.3
75°	5.3
77.5°	2.6
80°	2.6
82.5°	2.6
85°	2.6
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)