

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: P584468

Luminaire Tested: **HC835D010-HM82555930-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584468  
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-HM82555930-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3937.8 lumens  
Efficiency: N/A  
Efficacy: 116.8 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

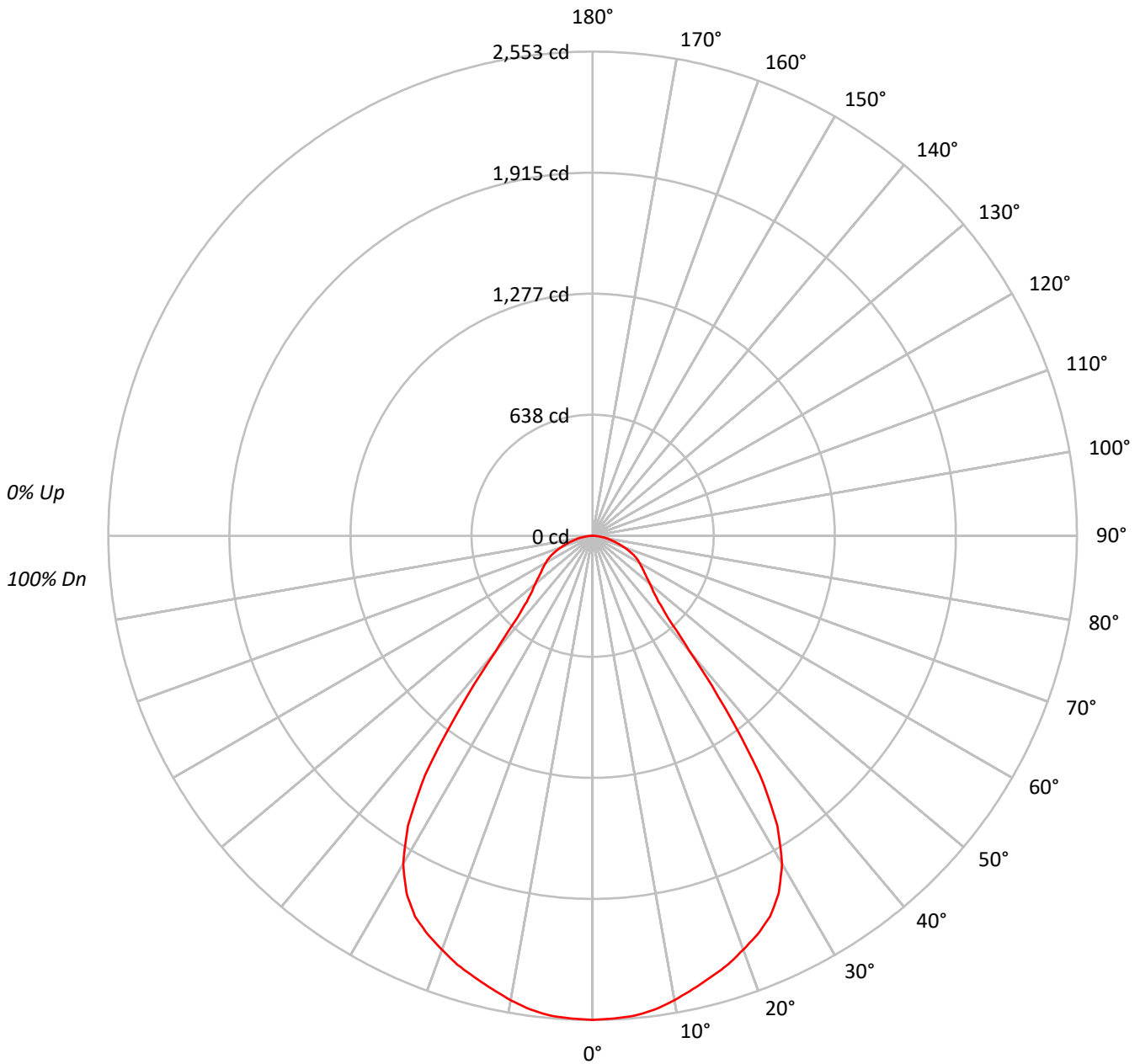
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	78722
5°	78630
10°	77851
15°	76918
20°	76207
25°	75350
30°	71099
35°	57897
40°	31986
45°	21351
50°	18935
55°	17774
60°	17546
65°	17395
70°	15715
75°	14047
80°	12288
85°	10897



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.7	6.1
10°-20°	680.3	17.3
20°-30°	1010.9	25.7
30°-40°	910.4	23.1
40°-50°	403.6	10.2
50°-60°	298.9	7.6
60°-70°	232.4	5.9
70°-80°	126.0	3.2
80°-90°	34.5	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°	1932.0	49.1
0°-40°	2842.3	72.2
0°-60°	3544.8	90.0
0°-90°	3937.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3937.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2553	
5°	2540	241
15°	2409	680
25°	2215	1011
35°	1538	910
45°	490	404
55°	331	299
65°	238	232
75°	118	126
85°	31	35
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2552.9
2.5°	2547.9
5°	2540.2
7.5°	2519.6
10°	2486.3
12.5°	2447.9
15°	2409.4
17.5°	2371.0
20°	2322.3
22.5°	2273.6
25°	2214.6
27.5°	2124.9
30°	1996.8
32.5°	1812.2
35°	1538.0
37.5°	1148.3
40°	794.6
42.5°	587.0
45°	489.6
47.5°	433.2
50°	394.7
52.5°	358.8
55°	330.6
57.5°	307.6
60°	284.5
62.5°	264.0
65°	238.4
67.5°	207.6
70°	174.3
72.5°	146.2
75°	117.9
77.5°	92.2
80°	69.2
82.5°	48.8
85°	30.8
87.5°	12.8
90°	0.0



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— 0°-180°







(END OF REPORT)