

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: P584145

Luminaire Tested: **HC825D010-HM82555835-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584145  
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: HC825D010-HM82555835-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2625.5 lumens  
Efficiency: N/A  
Efficacy: 98.0 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

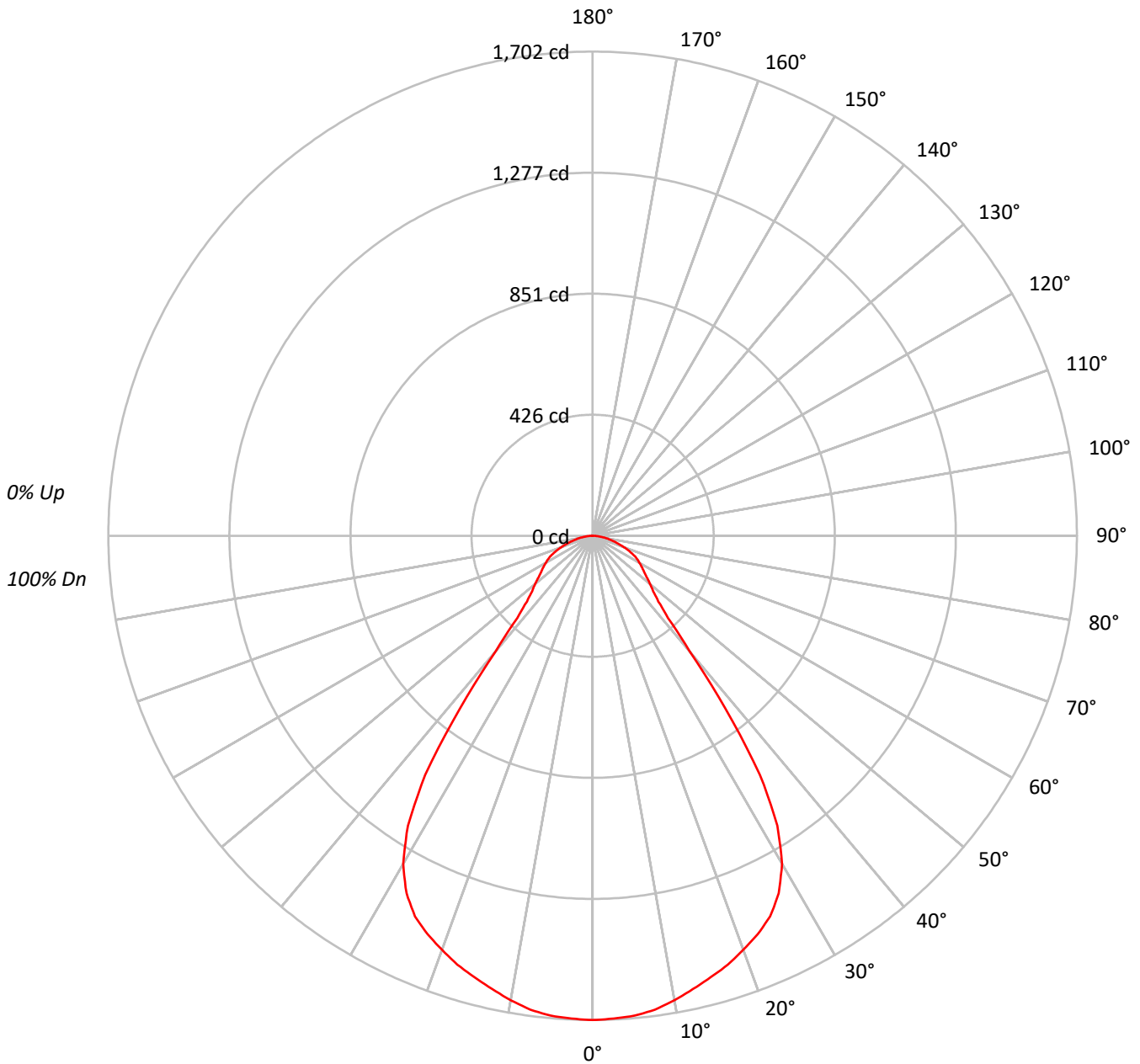
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	52490
5°	52424
10°	51909
15°	51286
20°	50811
25°	50240
30°	47403
35°	38600
40°	21327
45°	14238
50°	12626
55°	11849
60°	11699
65°	11594
70°	10477
75°	9365
80°	8186
85°	7253



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.5	6.1
10°-20°	453.6	17.3
20°-30°	674.0	25.7
30°-40°	607.0	23.1
40°-50°	269.1	10.2
50°-60°	199.3	7.6
60°-70°	155.0	5.9
70°-80°	84.0	3.2
80°-90°	23.0	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°	1288.1	49.1
0°-40°	1895.1	72.2
0°-60°	2363.5	90.0
0°-90°	2625.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2625.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1702	
5°	1694	161
15°	1606	454
25°	1477	674
35°	1025	607
45°	326	269
55°	220	199
65°	159	155
75°	79	84
85°	20	23
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1702.2
2.5°	1698.7
5°	1693.6
7.5°	1680.0
10°	1657.8
12.5°	1632.1
15°	1606.5
17.5°	1580.8
20°	1548.4
22.5°	1515.9
25°	1476.6
27.5°	1416.8
30°	1331.3
32.5°	1208.2
35°	1025.4
37.5°	765.7
40°	529.8
42.5°	391.4
45°	326.5
47.5°	288.8
50°	263.2
52.5°	239.3
55°	220.4
57.5°	205.1
60°	189.7
62.5°	176.0
65°	158.9
67.5°	138.5
70°	116.2
72.5°	97.4
75°	78.6
77.5°	61.5
80°	46.1
82.5°	32.4
85°	20.5
87.5°	8.6
90°	0.0



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— 0°-180°







(END OF REPORT)