

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: P593619

Luminaire Tested: **HC825D010-HM82555850-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593619  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC825D010-HM82555850-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3049.0 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

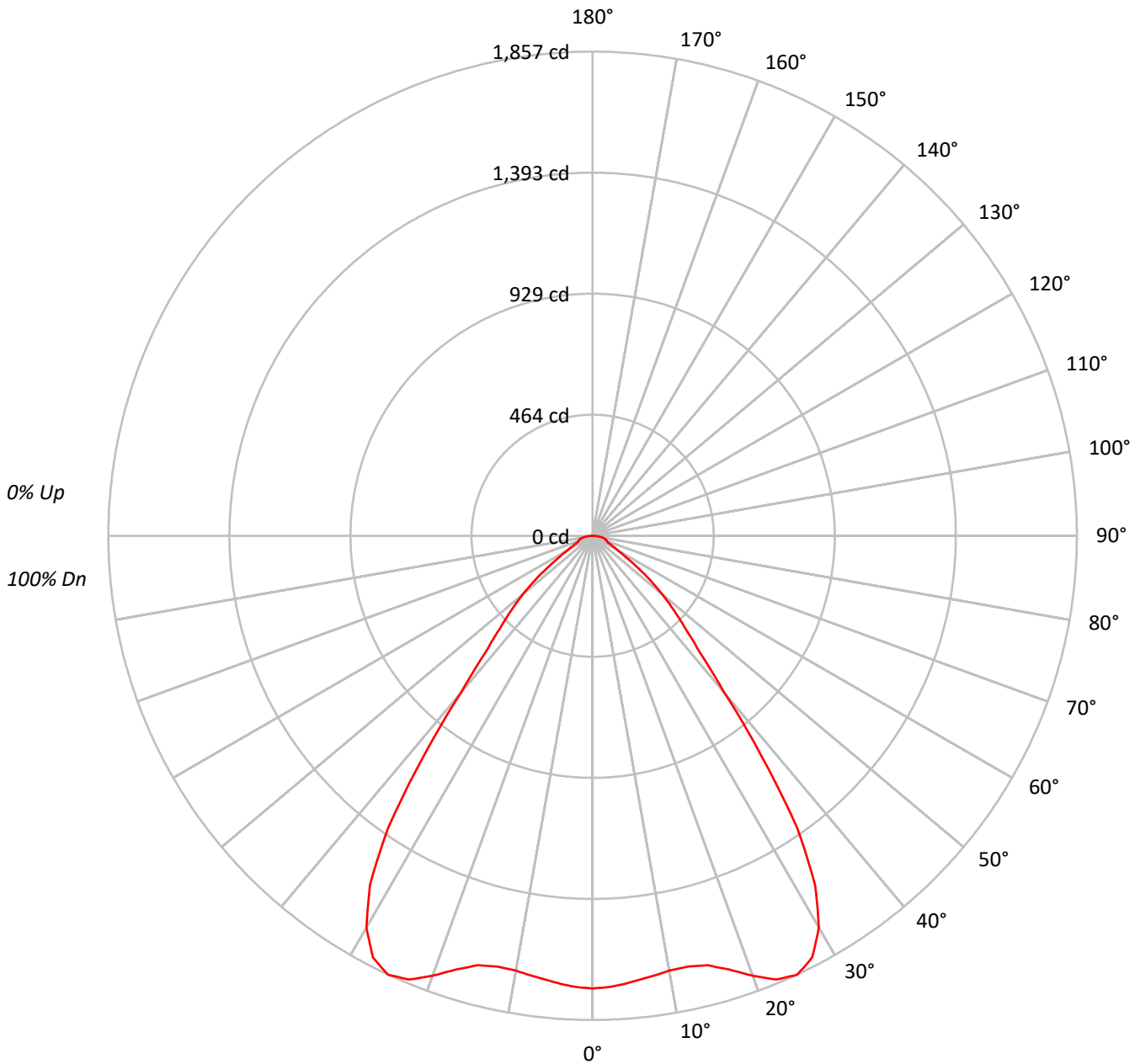
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90		
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59		
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49		
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45		
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41		
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38		

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

	0°
0°	53547
5°	53179
10°	53039
15°	54431
20°	58930
25°	63179
30°	61767
35°	51433
40°	31599
45°	21879
50°	16699
55°	10946
60°	6852
65°	5129
70°	5175
75°	5957
80°	6570
85°	5909



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.2	5.4
10°-20°	489.5	16.1
20°-30°	842.6	27.6
30°-40°	816.4	26.8
40°-50°	402.1	13.2
50°-60°	189.7	6.2
60°-70°	74.8	2.5
70°-80°	51.6	1.7
80°-90°	19.2	0.6
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°	1495.3	49.0
0°-40°	2311.7	75.8
0°-60°	2903.5	95.2
0°-90°	3049.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3049.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1736	
5°	1718	163
15°	1705	489
25°	1857	843
35°	1366	816
45°	502	402
55°	204	190
65°	70	75
75°	50	52
85°	17	19
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1736.5
2.5°	1730.9
5°	1718.0
7.5°	1705.0
10°	1693.9
12.5°	1692.1
15°	1705.0
17.5°	1743.9
20°	1795.8
22.5°	1842.0
25°	1856.9
27.5°	1823.5
30°	1734.7
32.5°	1588.4
35°	1366.3
37.5°	1060.8
40°	785.0
42.5°	609.0
45°	501.7
47.5°	422.1
50°	348.1
52.5°	274.0
55°	203.6
57.5°	148.1
60°	111.1
62.5°	87.0
65°	70.3
67.5°	61.1
70°	57.4
72.5°	53.7
75°	50.0
77.5°	44.4
80°	37.0
82.5°	27.8
85°	16.7
87.5°	7.4
90°	0.0



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— 0°-180°







(END OF REPORT)