

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: P584180

Luminaire Tested: **HC825D010-HM82555927-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584180  
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-HM82555927-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2193.0 lumens  
Efficiency: N/A  
Efficacy: 81.8 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

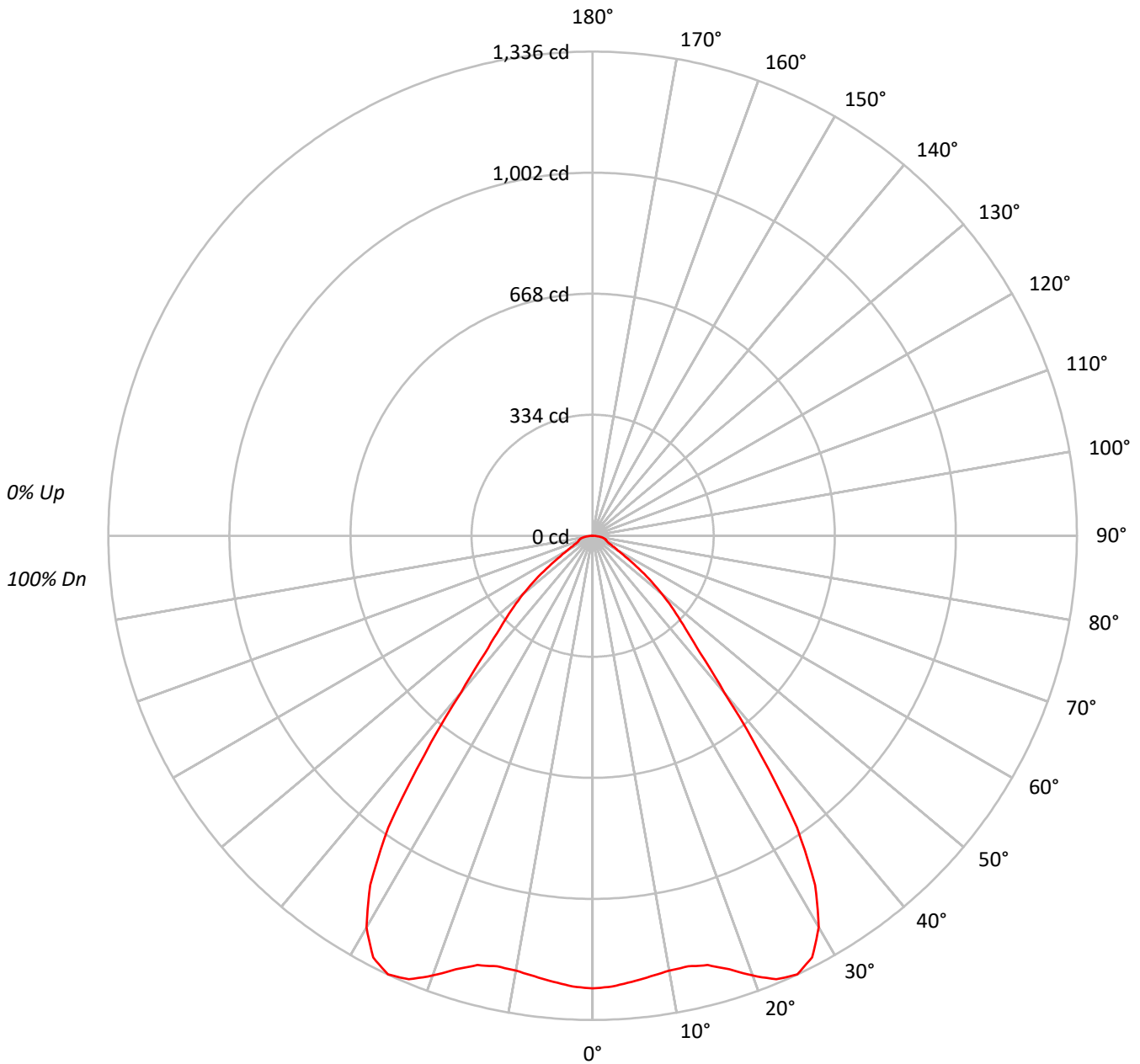
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	38511
5°	38247
10°	38147
15°	39149
20°	42381
25°	45439
30°	44423
35°	36989
40°	22723
45°	15734
50°	12008
55°	7876
60°	4928
65°	3692
70°	3724
75°	4289
80°	4724
85°	4246



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.4	5.4
10°-20°	352.0	16.1
20°-30°	606.0	27.6
30°-40°	587.1	26.8
40°-50°	289.2	13.2
50°-60°	136.5	6.2
60°-70°	53.8	2.5
70°-80°	37.1	1.7
80°-90°	13.8	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°	1075.4	49.0
0°-40°	1662.6	75.8
0°-60°	2088.2	95.2
0°-90°	2193.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2193.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1249	
5°	1236	117
15°	1226	352
25°	1336	606
35°	983	587
45°	361	289
55°	146	136
65°	51	54
75°	36	37
85°	12	14
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1248.9
2.5°	1244.9
5°	1235.6
7.5°	1226.3
10°	1218.3
12.5°	1216.9
15°	1226.3
17.5°	1254.3
20°	1291.5
22.5°	1324.8
25°	1335.5
27.5°	1311.5
30°	1247.6
32.5°	1142.4
35°	982.6
37.5°	762.9
40°	564.5
42.5°	438.1
45°	360.8
47.5°	303.6
50°	250.3
52.5°	197.1
55°	146.5
57.5°	106.5
60°	79.9
62.5°	62.6
65°	50.6
67.5°	44.0
70°	41.3
72.5°	38.6
75°	36.0
77.5°	32.0
80°	26.6
82.5°	20.0
85°	12.0
87.5°	5.4
90°	0.0



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— 0°-180°







(END OF REPORT)