

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: P584186

Luminaire Tested: **HC825D010-HM82555930-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584186  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC825D010-HM82555930-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2348.1 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

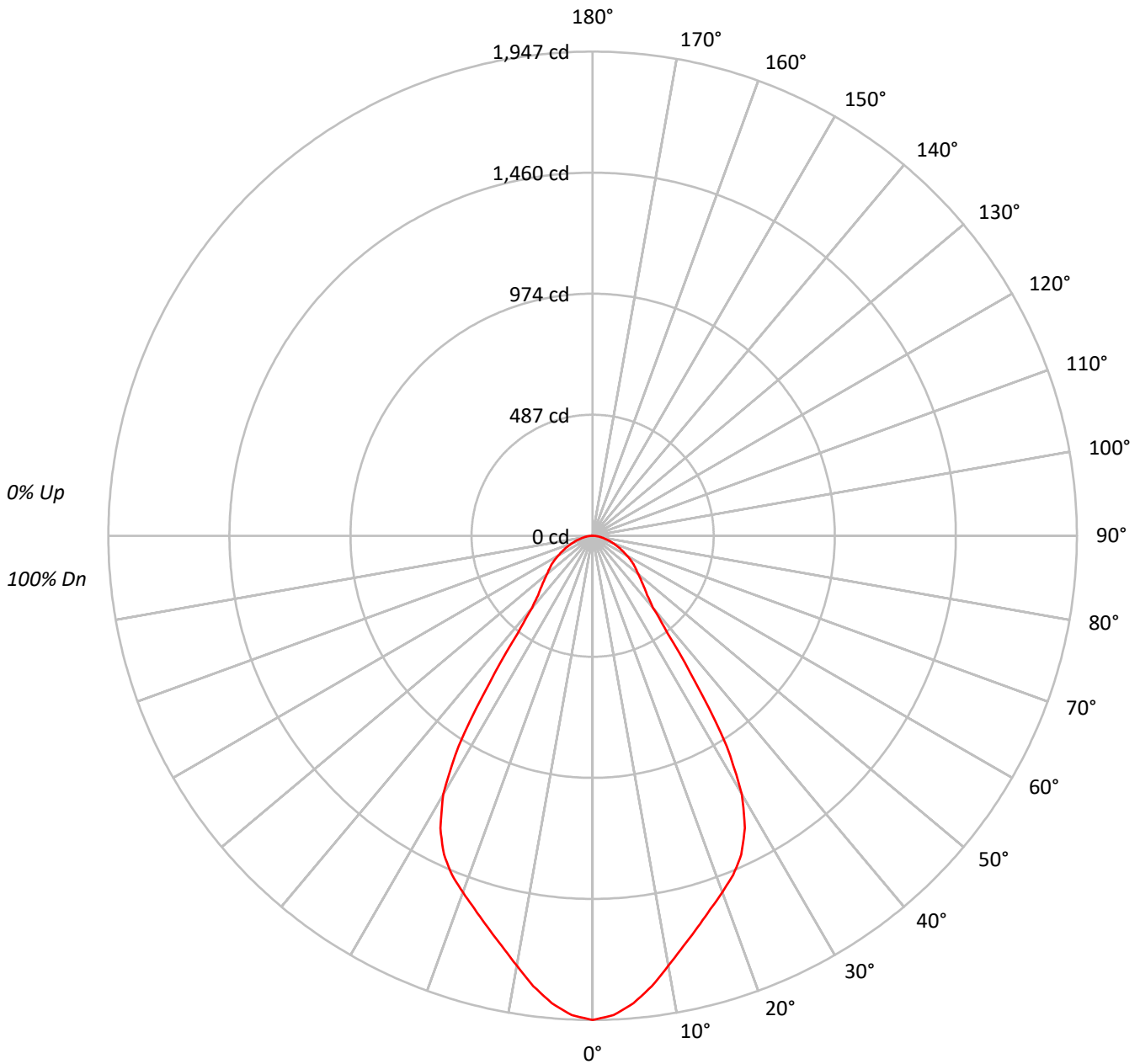
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			59
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			54
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			43
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			40

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

	0°
0°	60041
5°	58404
10°	54959
15°	52033
20°	50053
25°	48120
30°	42739
35°	27217
40°	15192
45°	12725
50°	11489
55°	10828
60°	9880
65°	8909
70°	7862
75°	6982
80°	6198
85°	5590



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.9	7.5
10°-20°	459.7	19.6
20°-30°	641.3	27.3
30°-40°	461.5	19.7
40°-50°	228.7	9.7
50°-60°	178.9	7.6
60°-70°	121.1	5.2
70°-80°	62.9	2.7
80°-90°	18.1	0.8
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°	1276.9	54.4
0°-40°	1738.3	74.0
0°-60°	2146.0	91.4
0°-90°	2348.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2348.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1947	
5°	1887	176
15°	1630	460
25°	1414	641
35°	723	461
45°	292	229
55°	201	179
65°	122	121
75°	59	63
85°	16	18
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1947.1
2.5°	1929.6
5°	1886.8
7.5°	1826.6
10°	1755.2
12.5°	1688.7
15°	1629.9
17.5°	1574.5
20°	1525.3
22.5°	1476.2
25°	1414.3
27.5°	1325.5
30°	1200.3
32.5°	1003.7
35°	723.0
37.5°	493.2
40°	377.4
42.5°	325.1
45°	291.8
47.5°	263.2
50°	239.5
52.5°	218.8
55°	201.4
57.5°	180.7
60°	160.2
62.5°	139.5
65°	122.1
67.5°	104.6
70°	87.2
72.5°	73.0
75°	58.6
77.5°	46.0
80°	34.9
82.5°	25.4
85°	15.8
87.5°	7.9
90°	0.0



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— 0°-180°







(END OF REPORT)