

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: P584135

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584135  
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-HM82555835-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2531.5 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

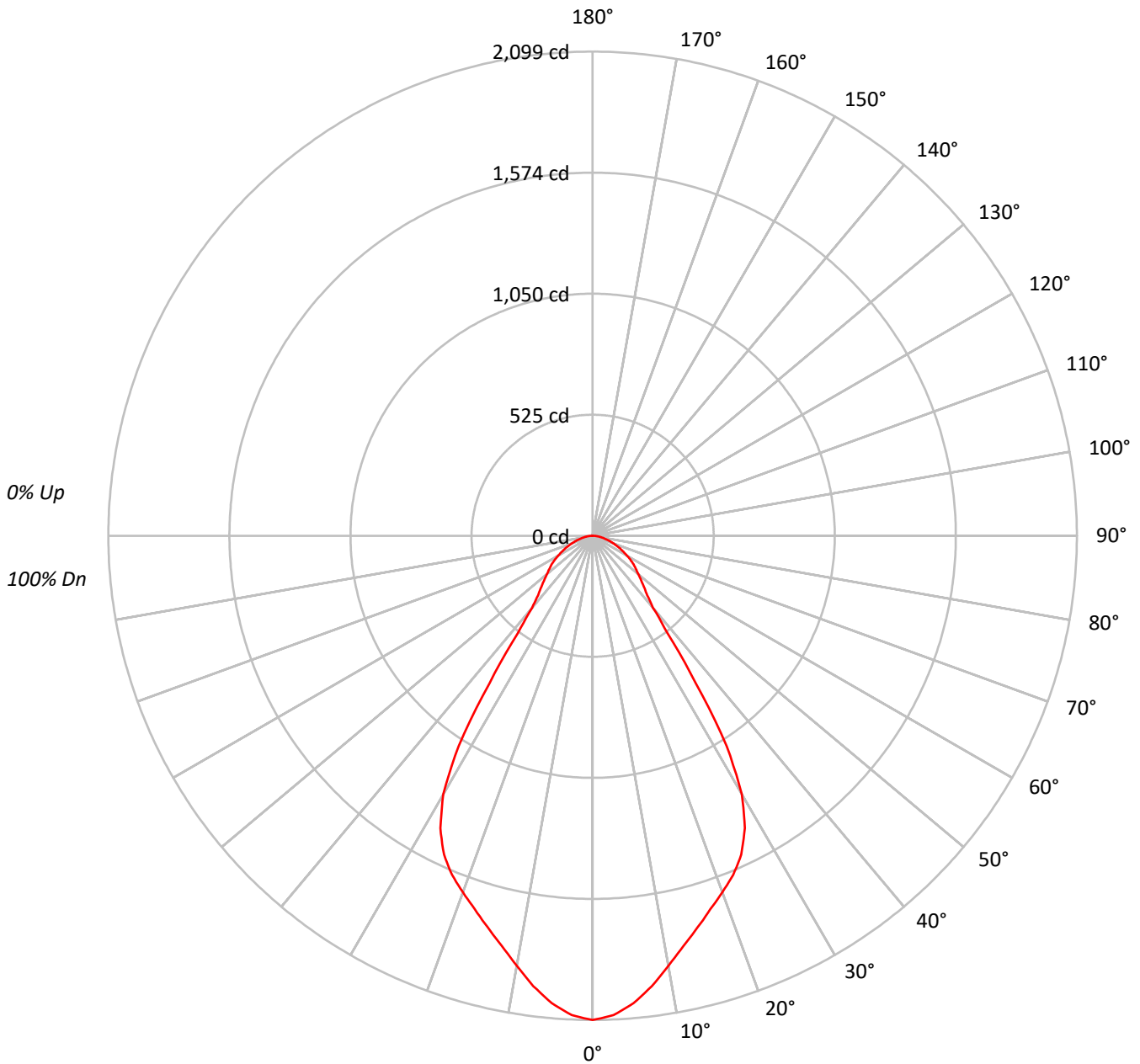
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			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°	64729
5°	62967
10°	59252
15°	56100
20°	53965
25°	51880
30°	46079
35°	29344
40°	16375
45°	13719
50°	12382
55°	11672
60°	10651
65°	9602
70°	8484
75°	7530
80°	6677
85°	6050



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.6	7.5
10°-20°	495.6	19.6
20°-30°	691.4	27.3
30°-40°	497.5	19.7
40°-50°	246.6	9.7
50°-60°	192.9	7.6
60°-70°	130.6	5.2
70°-80°	67.8	2.7
80°-90°	19.6	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°	1376.6	54.4
0°-40°	1874.1	74.0
0°-60°	2313.6	91.4
0°-90°	2531.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2531.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2099	
5°	2034	190
15°	1757	496
25°	1525	691
35°	780	497
45°	315	247
55°	217	193
65°	132	131
75°	63	68
85°	17	20
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2099.1
2.5°	2080.3
5°	2034.2
7.5°	1969.2
10°	1892.3
12.5°	1820.5
15°	1757.3
17.5°	1697.4
20°	1644.5
22.5°	1591.4
25°	1524.8
27.5°	1429.1
30°	1294.1
32.5°	1082.1
35°	779.5
37.5°	531.6
40°	406.8
42.5°	350.4
45°	314.6
47.5°	283.8
50°	258.1
52.5°	235.9
55°	217.1
57.5°	194.8
60°	172.7
62.5°	150.4
65°	131.6
67.5°	112.8
70°	94.1
72.5°	78.6
75°	63.2
77.5°	49.5
80°	37.6
82.5°	27.4
85°	17.1
87.5°	8.6
90°	0.0



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— 0°-180°







(END OF REPORT)