

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: P584230

Luminaire Tested: **HC825D010-HM82555940-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584230  
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-HM82555940-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2706.4 lumens  
Efficiency: N/A  
Efficacy: 101.0 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

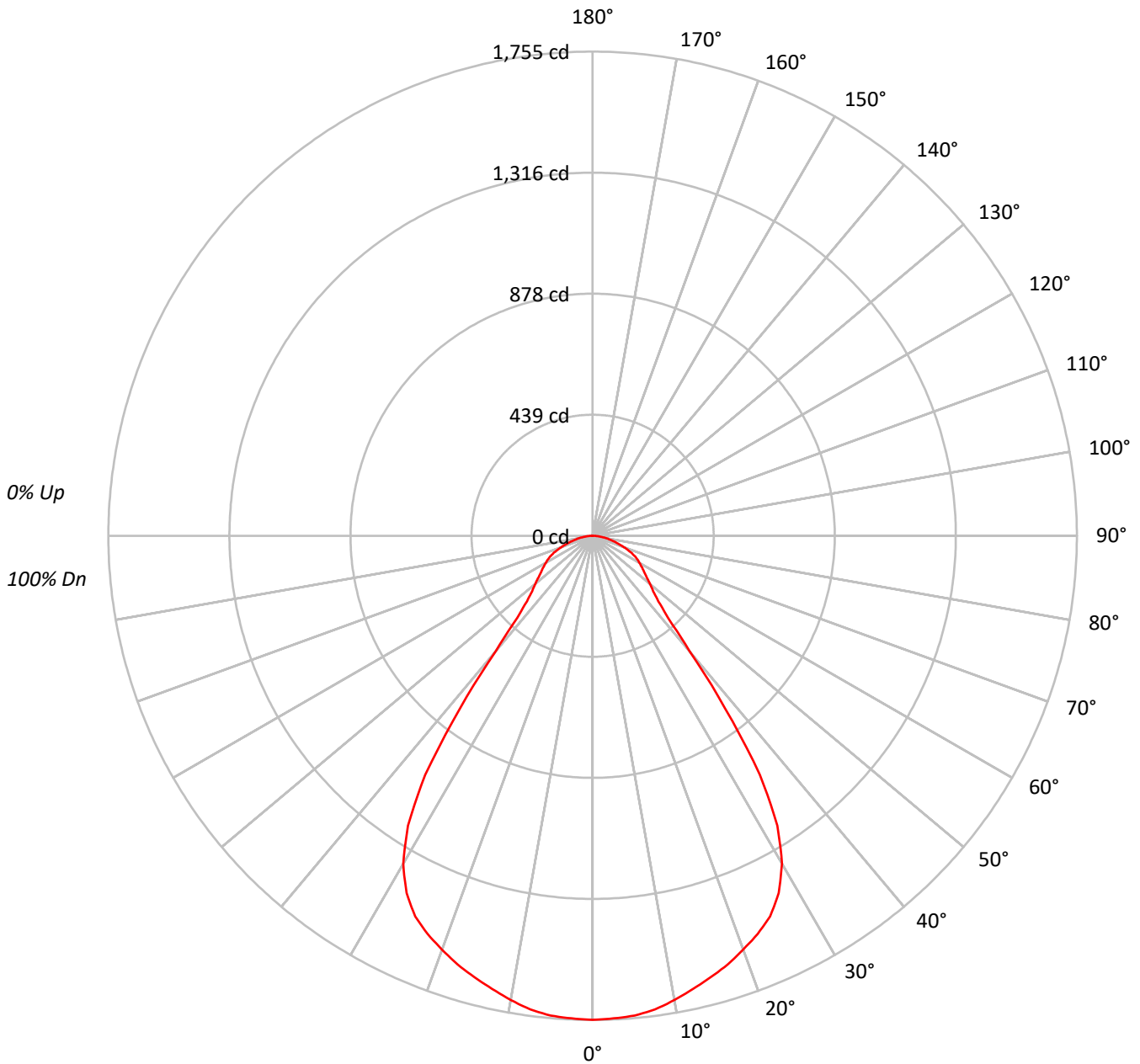
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89		
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79		
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70		
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63		
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57		
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52		
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48		
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44		
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

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

	0°
0°	54105
5°	54040
10°	53506
15°	52863
20°	52377
25°	51788
30°	48867
35°	39794
40°	21983
45°	14674
50°	13010
55°	12220
60°	12063
65°	11952
70°	10801
75°	9651
80°	8453
85°	7501



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.5	6.1
10°-20°	467.6	17.3
20°-30°	694.8	25.7
30°-40°	625.7	23.1
40°-50°	277.4	10.2
50°-60°	205.4	7.6
60°-70°	159.8	5.9
70°-80°	86.6	3.2
80°-90°	23.7	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°	1327.8	49.1
0°-40°	1953.5	72.2
0°-60°	2436.3	90.0
0°-90°	2706.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2706.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1755	
5°	1746	165
15°	1656	468
25°	1522	695
35°	1057	626
45°	336	277
55°	227	205
65°	164	160
75°	81	87
85°	21	24
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1754.6
2.5°	1751.1
5°	1745.8
7.5°	1731.7
10°	1708.8
12.5°	1682.4
15°	1655.9
17.5°	1629.5
20°	1596.1
22.5°	1562.6
25°	1522.1
27.5°	1460.4
30°	1372.4
32.5°	1245.5
35°	1057.1
37.5°	789.2
40°	546.1
42.5°	403.4
45°	336.5
47.5°	297.7
50°	271.2
52.5°	246.6
55°	227.3
57.5°	211.4
60°	195.6
62.5°	181.5
65°	163.8
67.5°	142.7
70°	119.8
72.5°	100.4
75°	81.0
77.5°	63.5
80°	47.6
82.5°	33.5
85°	21.2
87.5°	8.8
90°	0.0



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— 0°-180°







(END OF REPORT)