

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: P593772

Luminaire Tested: **HC845D010-HM82555950-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593772  
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: HC845D010-HM82555950-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5787.5 lumens  
Efficiency: N/A  
Efficacy: 131.5 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

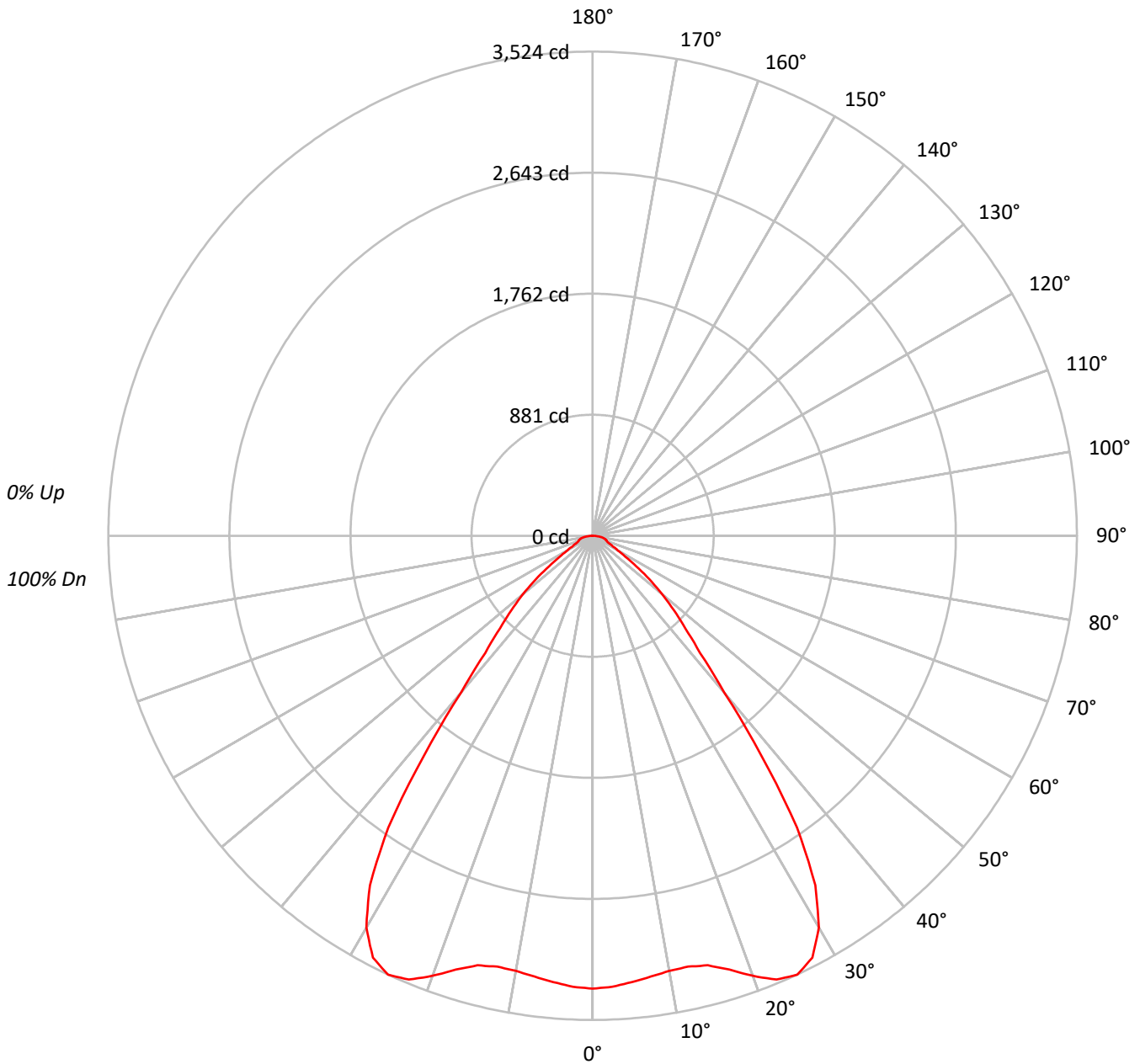
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20																	
RC	80									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	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°	101640
5°	100938
10°	100678
15°	103319
20°	111854
25°	119918
30°	117239
35°	97626
40°	59974
45°	41525
50°	31691
55°	20779
60°	13001
65°	9741
70°	9827
75°	11307
80°	12484
85°	11216



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.8	5.4
10°-20°	929.1	16.1
20°-30°	1599.4	27.6
30°-40°	1549.6	26.8
40°-50°	763.2	13.2
50°-60°	360.2	6.2
60°-70°	141.9	2.5
70°-80°	97.9	1.7
80°-90°	36.4	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°	2838.3	49.0
0°-40°	4387.9	75.8
0°-60°	5511.2	95.2
0°-90°	5787.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5787.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3296	
5°	3261	310
15°	3236	929
25°	3524	1599
35°	2593	1550
45°	952	763
55°	386	360
65°	134	142
75°	95	98
85°	32	36
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3296.1
2.5°	3285.6
5°	3260.9
7.5°	3236.4
10°	3215.3
12.5°	3211.8
15°	3236.4
17.5°	3310.2
20°	3408.6
22.5°	3496.5
25°	3524.5
27.5°	3461.3
30°	3292.6
32.5°	3015.0
35°	2593.4
37.5°	2013.6
40°	1489.9
42.5°	1156.1
45°	952.2
47.5°	801.2
50°	660.6
52.5°	520.1
55°	386.5
57.5°	281.2
60°	210.8
62.5°	165.2
65°	133.5
67.5°	116.0
70°	109.0
72.5°	101.9
75°	94.9
77.5°	84.3
80°	70.3
82.5°	52.7
85°	31.7
87.5°	14.1
90°	0.0



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— 0°-180°







(END OF REPORT)