

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: P584754

Luminaire Tested: **HC845D010-HM82555935-81WDBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584754  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC845D010-HM82555935-81WDBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4762.0 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

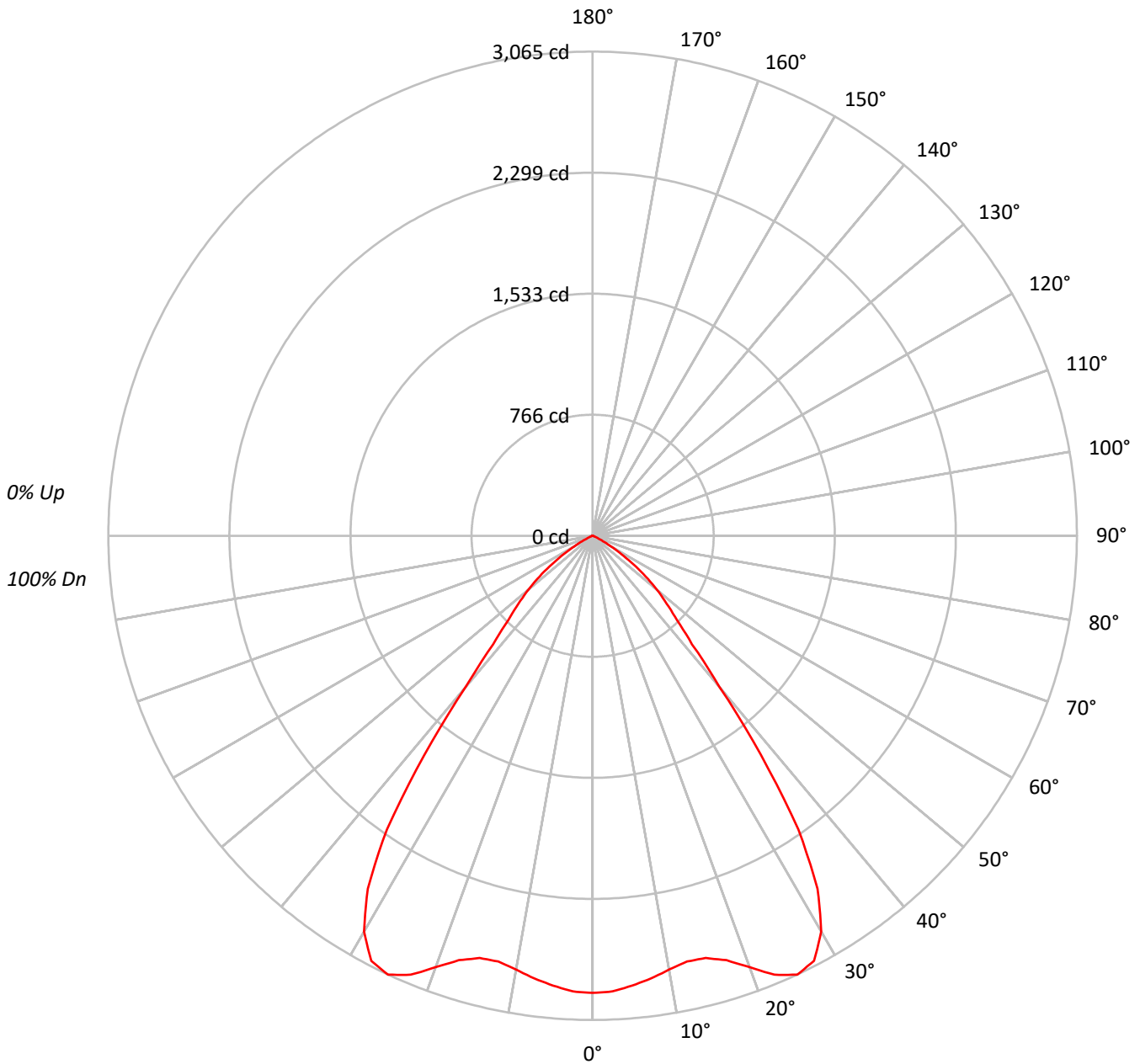
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68			
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40			

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

	0°
0°	89222
5°	88482
10°	87317
15°	88312
20°	95368
25°	104291
30°	103024
35°	85460
40°	50301
45°	32859
50°	25474
55°	16924
60°	8233
65°	2554
70°	857
75°	751
80°	568
85°	1132



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	270.7	5.7
10°-20°	794.7	16.7
20°-30°	1389.5	29.2
30°-40°	1351.6	28.4
40°-50°	614.7	12.9
50°-60°	285.0	6.0
60°-70°	47.8	1.0
70°-80°	5.8	0.1
80°-90°	2.2	0.0
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°	2455.0	51.6
0°-40°	3806.6	79.9
0°-60°	4706.3	98.8
0°-90°	4762.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4762.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2893	
5°	2858	271
15°	2766	795
25°	3065	1390
35°	2270	1352
45°	754	615
55°	315	285
65°	35	48
75°	6	6
85°	3	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2893.4
2.5°	2887.1
5°	2858.5
7.5°	2826.7
10°	2788.6
12.5°	2760.0
15°	2766.3
17.5°	2817.2
20°	2906.2
22.5°	3007.9
25°	3065.2
27.5°	3033.4
30°	2893.4
32.5°	2648.6
35°	2270.2
37.5°	1748.8
40°	1249.6
42.5°	931.6
45°	753.5
47.5°	635.9
50°	531.0
52.5°	422.9
55°	314.8
57.5°	216.2
60°	133.5
62.5°	73.1
65°	35.0
67.5°	16.0
70°	9.5
72.5°	6.3
75°	6.3
77.5°	3.2
80°	3.2
82.5°	3.2
85°	3.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)