

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: P593697

Luminaire Tested: **HC835D010-HM82555850-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593697  
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: HC835D010-HM82555850-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4598.0 lumens  
Efficiency: N/A  
Efficacy: 136.4 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

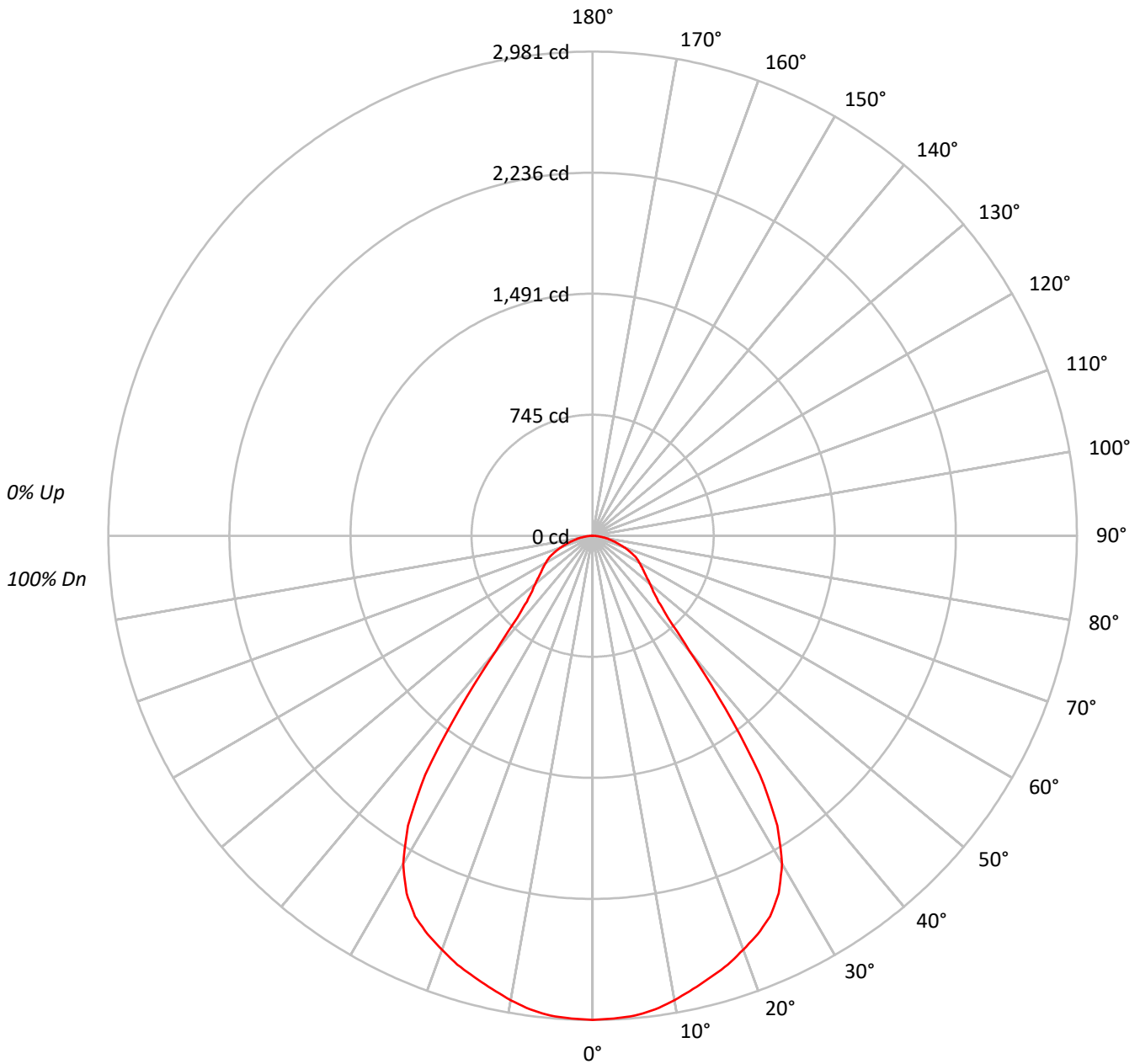
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	91923
5°	91810
10°	90902
15°	89815
20°	88982
25°	87983
30°	83017
35°	67601
40°	37352
45°	24931
50°	22111
55°	20757
60°	20488
65°	20306
70°	18347
75°	16406
80°	14366
85°	12702



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.1	6.1
10°-20°	794.4	17.3
20°-30°	1180.4	25.7
30°-40°	1063.0	23.1
40°-50°	471.3	10.2
50°-60°	349.0	7.6
60°-70°	271.4	5.9
70°-80°	147.2	3.2
80°-90°	40.3	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°	2255.9	49.1
0°-40°	3318.8	72.2
0°-60°	4139.1	90.0
0°-90°	4598.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4598.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2981	
5°	2966	281
15°	2813	794
25°	2586	1180
35°	1796	1063
45°	572	471
55°	386	349
65°	278	271
75°	138	147
85°	36	40
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2981.0
2.5°	2975.0
5°	2966.0
7.5°	2942.0
10°	2903.1
12.5°	2858.3
15°	2813.4
17.5°	2768.5
20°	2711.6
22.5°	2654.8
25°	2585.9
27.5°	2481.2
30°	2331.5
32.5°	2116.0
35°	1795.8
37.5°	1340.8
40°	927.9
42.5°	685.4
45°	571.7
47.5°	505.8
50°	460.9
52.5°	419.1
55°	386.1
57.5°	359.2
60°	332.2
62.5°	308.2
65°	278.3
67.5°	242.5
70°	203.5
72.5°	170.6
75°	137.7
77.5°	107.7
80°	80.9
82.5°	56.9
85°	35.9
87.5°	15.0
90°	0.0



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— 0°-180°







(END OF REPORT)