

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: P584954

Luminaire Tested: **HC855D010-HM82555835-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584954  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC855D010-HM82555835-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5032.7 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

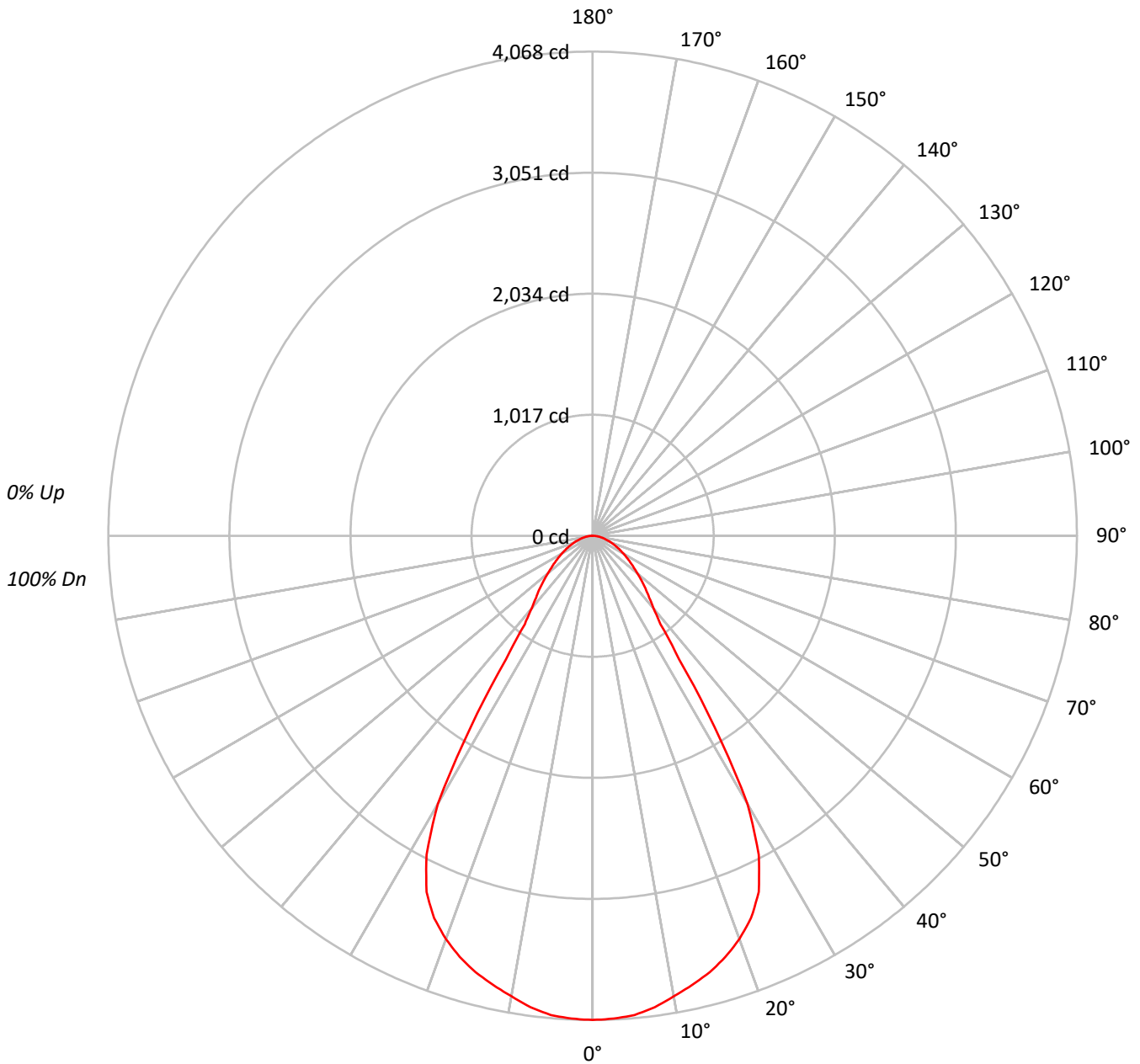
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

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

	0°
0°	125442
5°	125110
10°	123022
15°	121225
20°	118316
25°	112317
30°	92638
35°	47695
40°	31933
45°	27378
50°	23627
55°	20618
60°	18317
65°	16461
70°	14921
75°	13427
80°	12004
85°	11994



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	382.1	7.6
10°-20°	1068.4	21.2
20°-30°	1480.3	29.4
30°-40°	889.1	17.7
40°-50°	486.7	9.7
50°-60°	345.8	6.9
60°-70°	224.5	4.5
70°-80°	119.9	2.4
80°-90°	35.8	0.7
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°	2930.8	58.2
0°-40°	3819.9	75.9
0°-60°	4652.4	92.4
0°-90°	5032.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5032.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4068	
5°	4042	382
15°	3797	1068
25°	3301	1480
35°	1267	889
45°	628	487
55°	384	346
65°	226	224
75°	113	120
85°	34	36
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4068.0
2.5°	4060.5
5°	4041.8
7.5°	3996.6
10°	3928.9
12.5°	3865.0
15°	3797.3
17.5°	3710.9
20°	3605.5
22.5°	3477.8
25°	3301.1
27.5°	3022.8
30°	2601.7
32.5°	1906.1
35°	1267.0
37.5°	936.2
40°	793.3
42.5°	703.1
45°	627.8
47.5°	556.5
50°	492.5
52.5°	432.4
55°	383.5
57.5°	338.4
60°	297.0
62.5°	259.4
65°	225.6
67.5°	191.7
70°	165.5
72.5°	135.4
75°	112.7
77.5°	90.2
80°	67.6
82.5°	48.9
85°	33.9
87.5°	15.0
90°	0.0



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— 0°-180°







(END OF REPORT)