

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: P584955

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584955  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC855D010-HM82555835-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5588.9 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

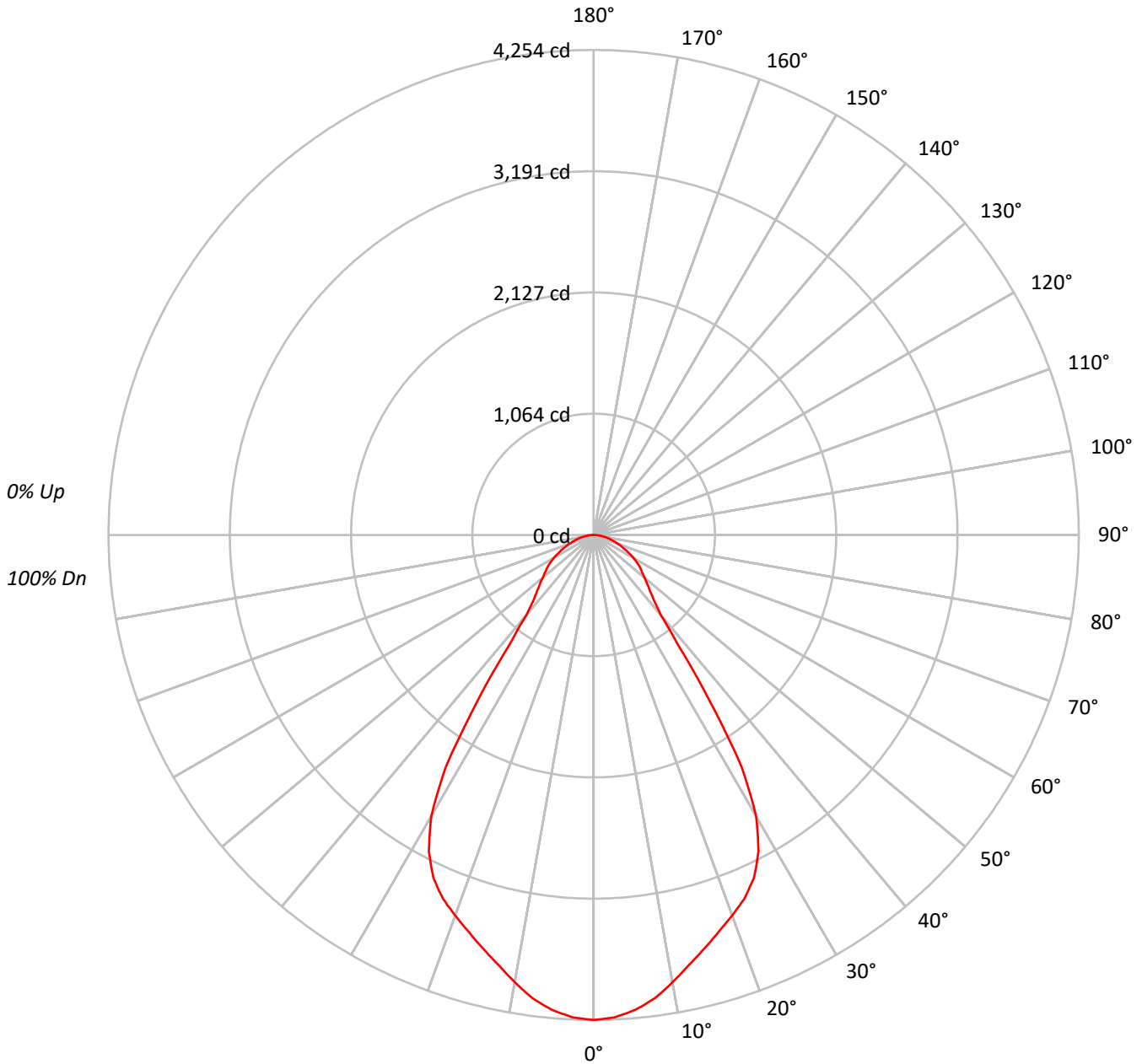
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100	100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89	89	89	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79	79	79	79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71	71	71	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64	64	64	64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53	53	53	53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49	49	49	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42	42	42	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39	39	39	39

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

	0°
0°	131190
5°	129481
10°	124738
15°	119859
20°	116547
25°	113042
30°	101436
35°	66495
40°	36760
45°	30648
50°	27944
55°	26671
60°	24799
65°	22488
70°	20331
75°	18360
80°	16692
85°	15957



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	393.0	7.0
10°-20°	1059.3	19.0
20°-30°	1507.5	27.0
30°-40°	1115.7	20.0
40°-50°	552.6	9.9
50°-60°	441.1	7.9
60°-70°	306.2	5.5
70°-80°	165.0	3.0
80°-90°	48.6	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°	2959.8	53.0
0°-40°	4075.5	72.9
0°-60°	5069.2	90.7
0°-90°	5588.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5588.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4254	
5°	4183	393
15°	3754	1059
25°	3322	1508
35°	1766	1116
45°	703	553
55°	496	441
65°	308	306
75°	154	165
85°	45	49
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4254.4
2.5°	4235.6
5°	4183.0
7.5°	4100.4
10°	3983.7
12.5°	3863.5
15°	3754.5
17.5°	3649.3
20°	3551.6
22.5°	3453.9
25°	3322.4
27.5°	3130.6
30°	2848.8
32.5°	2416.5
35°	1766.4
37.5°	1206.5
40°	913.2
42.5°	781.7
45°	702.8
47.5°	638.9
50°	582.5
52.5°	533.7
55°	496.1
57.5°	451.0
60°	402.1
62.5°	353.2
65°	308.2
67.5°	263.1
70°	225.5
72.5°	187.9
75°	154.1
77.5°	124.0
80°	94.0
82.5°	67.6
85°	45.1
87.5°	18.8
90°	0.0



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— 0°-180°







(END OF REPORT)