

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: P584968

Luminaire Tested: **HC855D010-HM82555840-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584968  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC855D010-HM82555840-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6028.7 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

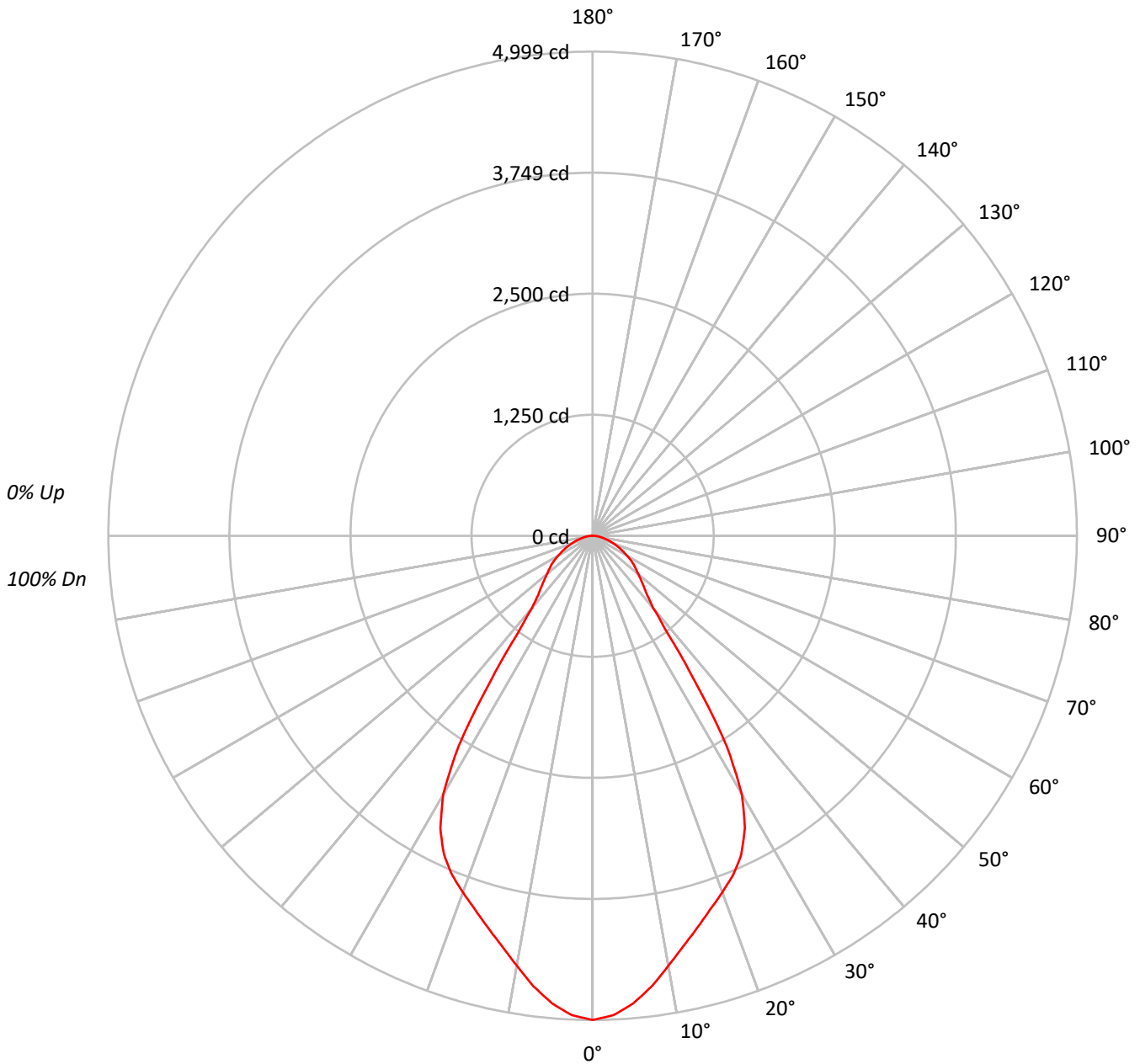
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65	65	65	65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59	59	59	59
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54	54	54	54
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50	50	50	50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46	46	46	46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43	43	43	43
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40	40	40	40

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

	0°
0°	154157
5°	149957
10°	141111
15°	133602
20°	128511
25°	123552
30°	109729
35°	69879
40°	39002
45°	32663
50°	29489
55°	27795
60°	25354
65°	22875
70°	20187
75°	17943
80°	15893
85°	14400



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	451.6	7.5
10°-20°	1180.3	19.6
20°-30°	1646.5	27.3
30°-40°	1184.8	19.7
40°-50°	587.2	9.7
50°-60°	459.4	7.6
60°-70°	311.0	5.2
70°-80°	161.5	2.7
80°-90°	46.5	0.8
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°	3278.4	54.4
0°-40°	4463.2	74.0
0°-60°	5509.7	91.4
0°-90°	6028.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6028.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4999	
5°	4844	452
15°	4185	1180
25°	3631	1647
35°	1856	1185
45°	749	587
55°	517	459
65°	314	311
75°	151	161
85°	41	47
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4999.2
2.5°	4954.3
5°	4844.5
7.5°	4689.8
10°	4506.6
12.5°	4335.6
15°	4185.0
17.5°	4042.5
20°	3916.2
22.5°	3790.0
25°	3631.3
27.5°	3403.3
30°	3081.7
32.5°	2576.9
35°	1856.3
37.5°	1266.1
40°	968.9
42.5°	834.6
45°	749.0
47.5°	675.8
50°	614.7
52.5°	561.7
55°	517.0
57.5°	464.1
60°	411.1
62.5°	358.3
65°	313.5
67.5°	268.7
70°	223.9
72.5°	187.3
75°	150.6
77.5°	118.0
80°	89.5
82.5°	65.2
85°	40.7
87.5°	20.4
90°	0.0



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— 0°-180°







(END OF REPORT)