

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: P584935

Luminaire Tested: **HC855D010-HM82555830-81NDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584935  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC855D010-HM82555830-81NDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5265.3 lumens  
Efficiency: N/A  
Efficacy: 101.3 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

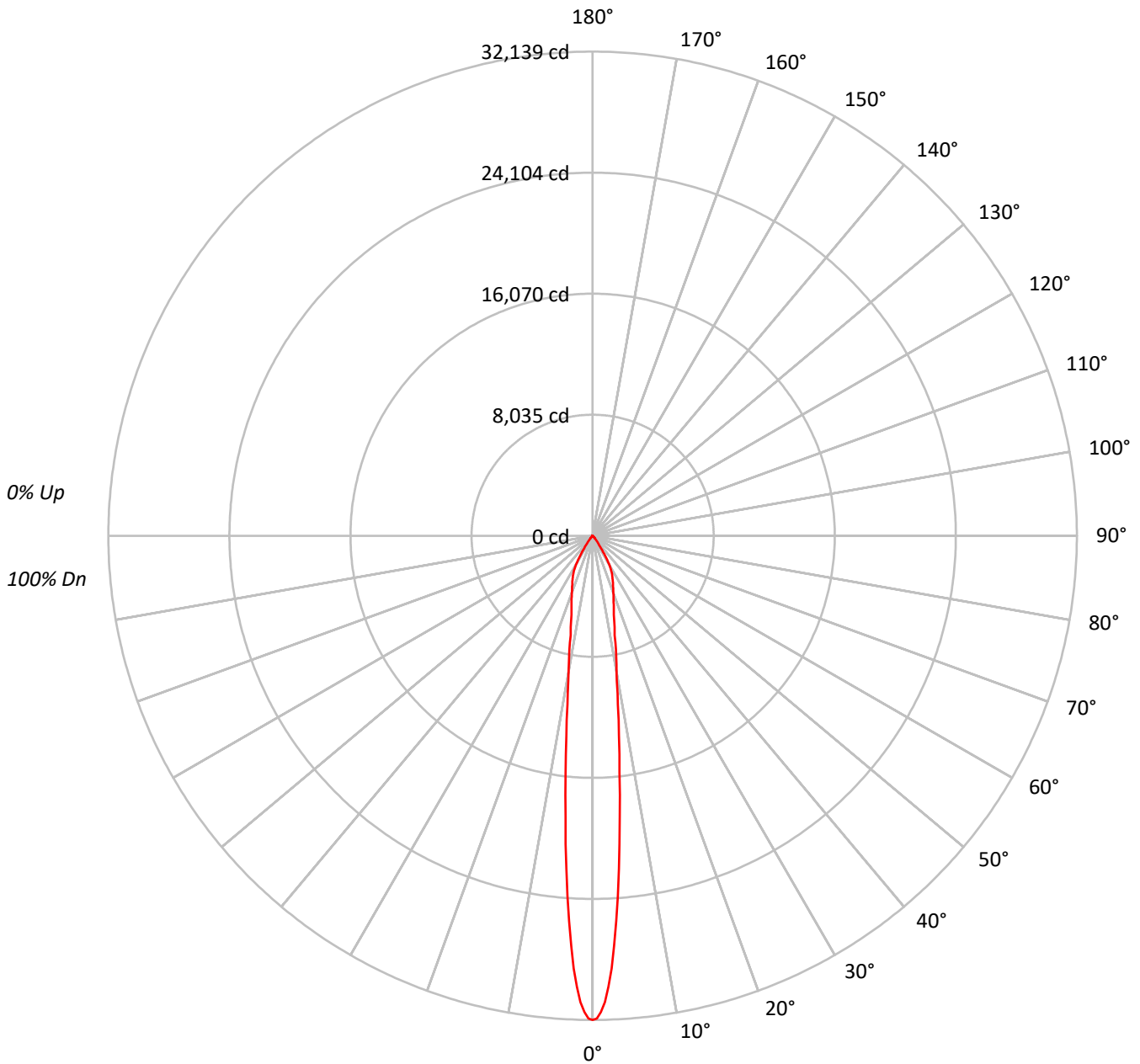
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96	96	96	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	91
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87	87	87	87
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83	83	83	83
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80	80	80	80
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76	76	76	76
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73	73	73	73
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71	71	71	71
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68	68	68	68
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66	66	66	66

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

	0°
0°	991054
5°	635686
10°	287162
15°	173265
20°	132036
25°	106625
30°	78132
35°	28293
40°	10559
45°	4793
50°	1530
55°	376
60°	216
65°	255
70°	0
75°	0
80°	622
85°	1238



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1566.3	29.7
10°-20°	1590.9	30.2
20°-30°	1424.1	27.0
30°-40°	573.7	10.9
40°-50°	94.1	1.8
50°-60°	8.5	0.2
60°-70°	3.0	0.1
70°-80°	2.3	0.0
80°-90°	3.3	0.1
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°	4581.3	87.0
0°-40°	5154.9	97.9
0°-60°	5257.5	99.9
0°-90°	5266.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5265.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	32139	
5°	20536	###
15°	5427	1591
25°	3134	1424
35°	752	574
45°	110	94
55°	7	9
65°	4	3
75°	0	2
85°	4	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	32139.2
0.5°	32039.9
1°	31625.1
1.5°	30958.7
2°	29948.4
2.5°	28753.7
3°	27257.7
3.5°	25616.4
4°	23992.7
4.5°	22174.1
5°	20536.4
5.5°	18753.2
6°	17306.8
6.5°	15800.2
7°	14616.1
7.5°	13364.8
8°	12357.9
8.5°	11347.7
9°	10589.0
9.5°	9752.3
10°	9171.0
12.5°	6764.0
15°	5427.4
17.5°	4636.9
20°	4023.6
22.5°	3534.4
25°	3133.8
27.5°	2733.2
30°	2194.3
32.5°	1411.0
35°	751.6
37.5°	414.8
40°	262.3
42.5°	173.7
45°	109.9
47.5°	67.4
50°	31.9
52.5°	10.7
55°	7.0
57.5°	3.5
60°	3.5
62.5°	3.5
65°	3.5



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**CANDELA DISTRIBUTION (continued):**

	0°
72.5°	0.0
75°	0.0
77.5°	3.5
80°	3.5
82.5°	3.5
85°	3.5
87.5°	3.5
90°	0.0



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— 0°-180°







67.5°		3.5
70°		0.0



(END OF REPORT)