

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: P585003

Luminaire Tested: **HC855D010-HM82555930-81NDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585003  
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-HM82555930-81NDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5177.1 lumens  
Efficiency: N/A  
Efficacy: 99.6 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

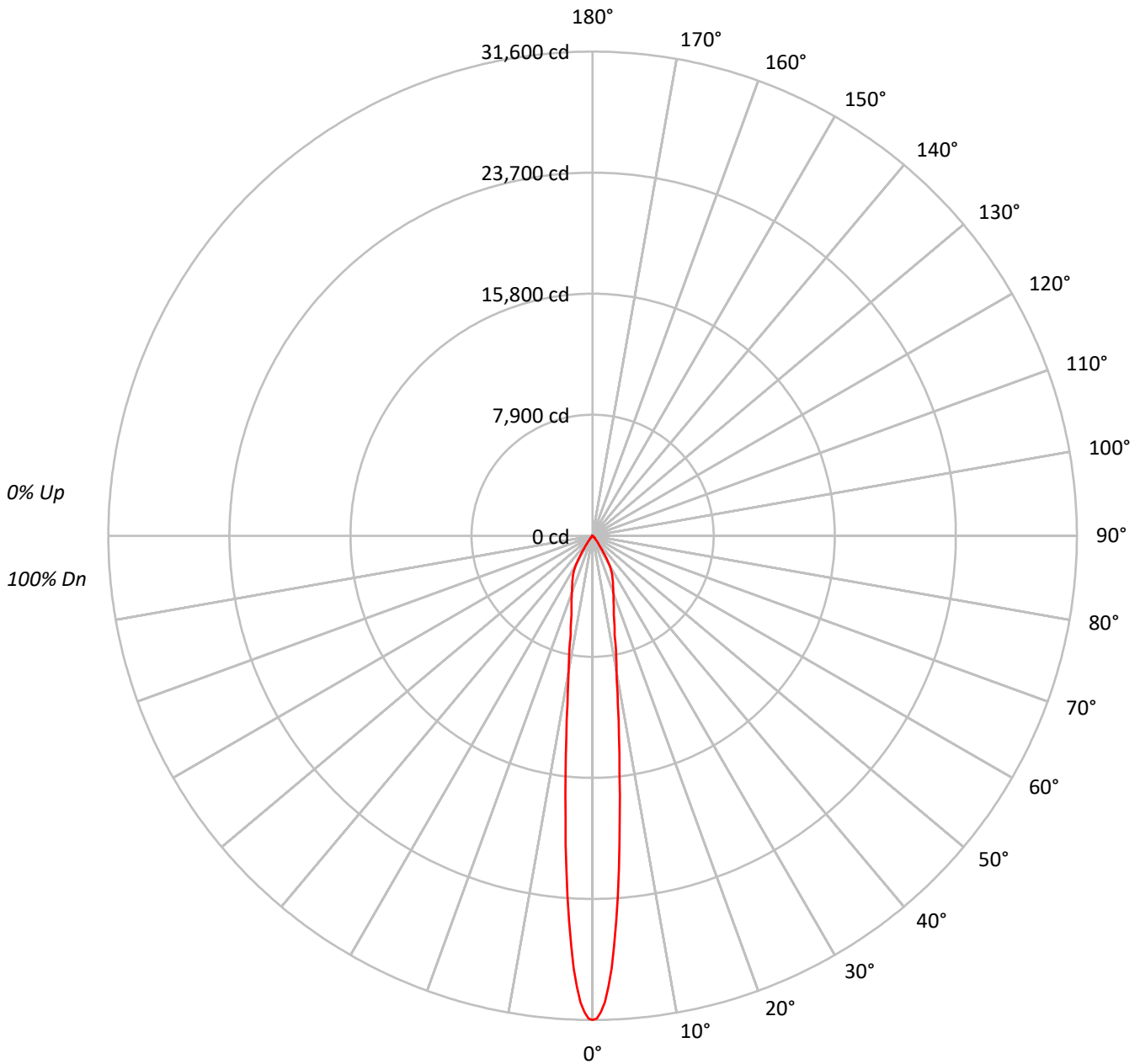
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20																	
RC	80									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	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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96																											
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91																											
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87																											
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83																											
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80																											
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76																											
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73																											
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71																											
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68																											
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66																											

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

	0°
0°	974437
5°	625022
10°	282344
15°	170363
20°	129821
25°	104838
30°	76821
35°	27815
40°	10386
45°	4714
50°	1506
55°	371
60°	216
65°	255
70°	0
75°	0
80°	622
85°	1238



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1540.0	29.7
10°-20°	1564.2	30.2
20°-30°	1400.2	27.0
30°-40°	564.0	10.9
40°-50°	92.5	1.8
50°-60°	8.4	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°	4504.4	87.0
0°-40°	5068.5	97.9
0°-60°	5169.4	99.8
0°-90°	5178.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5177.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	31600	
5°	20192	###
15°	5336	1564
25°	3081	1400
35°	739	564
45°	108	93
55°	7	8
65°	4	3
75°	0	2
85°	4	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	31600.3
0.5°	31502.7
1°	31094.8
1.5°	30439.5
2°	29446.1
2.5°	28271.6
3°	26800.6
3.5°	25186.7
4°	23590.4
4.5°	21802.2
5°	20191.9
5.5°	18438.7
6°	17016.6
6.5°	15535.2
7°	14371.1
7.5°	13140.6
8°	12150.7
8.5°	11157.3
9°	10411.5
9.5°	9588.8
10°	9017.1
12.5°	6650.5
15°	5336.5
17.5°	4559.1
20°	3956.1
22.5°	3475.1
25°	3081.3
27.5°	2687.4
30°	2157.5
32.5°	1387.3
35°	738.9
37.5°	407.9
40°	258.0
42.5°	170.8
45°	108.1
47.5°	66.2
50°	31.4
52.5°	10.4
55°	6.9
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)