

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: P584925

Luminaire Tested: **HC855D010-HM82555827-81WDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584925  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC855D010-HM82555827-81WDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6100.1 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

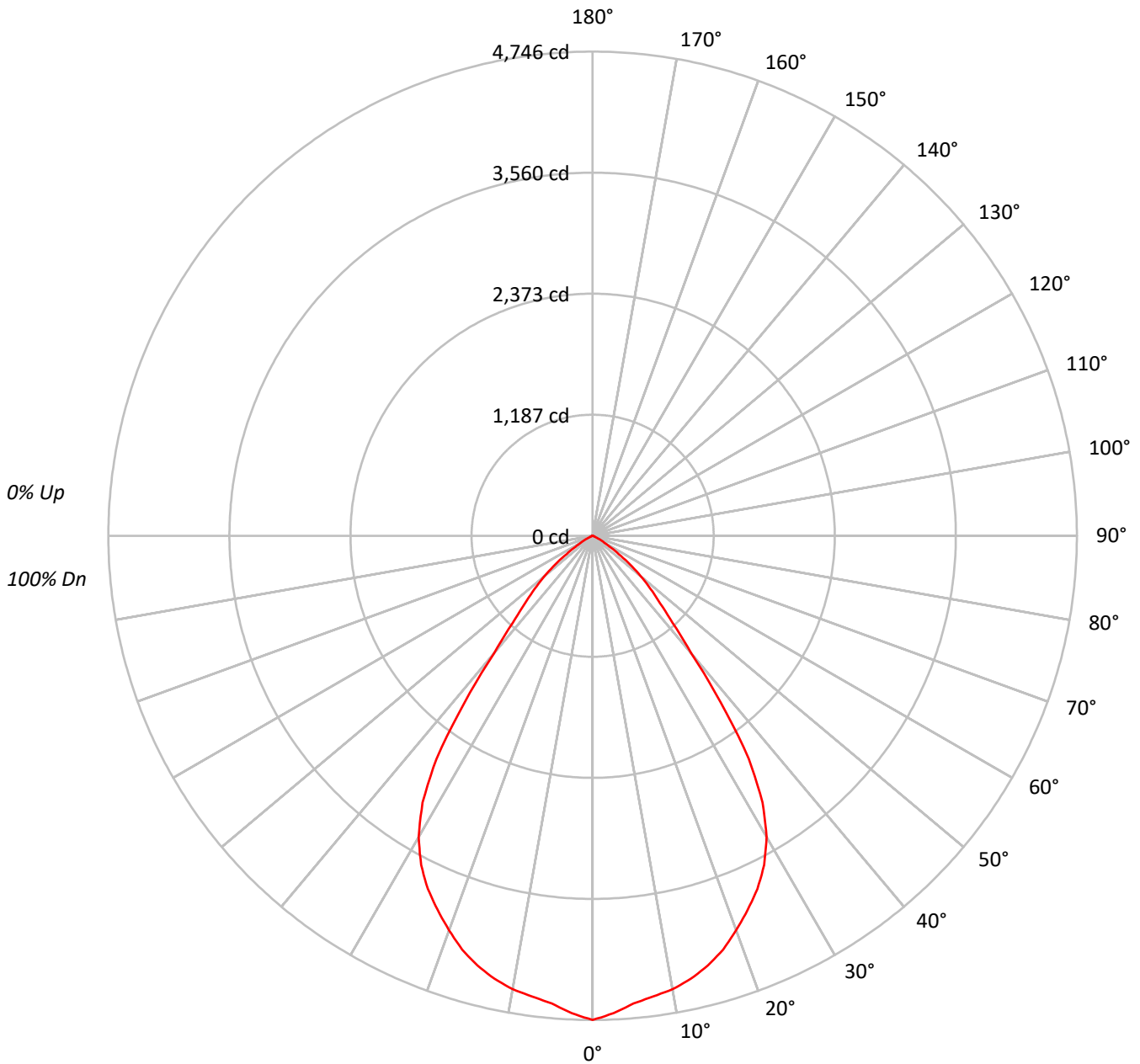
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92			
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84			
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	77			
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	71	70			
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64			
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59			
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	63	59	55	54			
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46			
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43			

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

	0°
0°	146352
5°	142417
10°	141333
15°	139227
20°	135012
25°	129975
30°	121412
35°	100472
40°	60663
45°	40857
50°	29441
55°	16790
60°	7388
65°	2649
70°	983
75°	429
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	437.1	7.2
10°-20°	1225.7	20.1
20°-30°	1748.4	28.7
30°-40°	1592.1	26.1
40°-50°	751.1	12.3
50°-60°	295.4	4.8
60°-70°	47.1	0.8
70°-80°	3.3	0.1
80°-90°	0.0	0.0
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°	3411.2	55.9
0°-40°	5003.3	82.0
0°-60°	6049.7	99.2
0°-90°	6100.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6100.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4746	
5°	4601	437
15°	4361	1226
25°	3820	1748
35°	2669	1592
45°	937	751
55°	312	295
65°	36	47
75°	4	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4746.1
2.5°	4684.4
5°	4600.9
7.5°	4553.7
10°	4513.7
12.5°	4448.4
15°	4361.2
17.5°	4252.3
20°	4114.3
22.5°	3969.1
25°	3820.1
27.5°	3638.6
30°	3409.8
32.5°	3101.1
35°	2669.0
37.5°	2062.6
40°	1507.0
42.5°	1158.4
45°	936.9
47.5°	769.9
50°	613.7
52.5°	461.2
55°	312.3
57.5°	196.1
60°	119.8
62.5°	72.7
65°	36.3
67.5°	18.2
70°	10.9
72.5°	3.6
75°	3.6
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)