

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: P593832

Luminaire Tested: **HC855D010-HM82555850-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593832  
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-HM82555850-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6053.2 lumens  
Efficiency: N/A  
Efficacy: 116.4 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

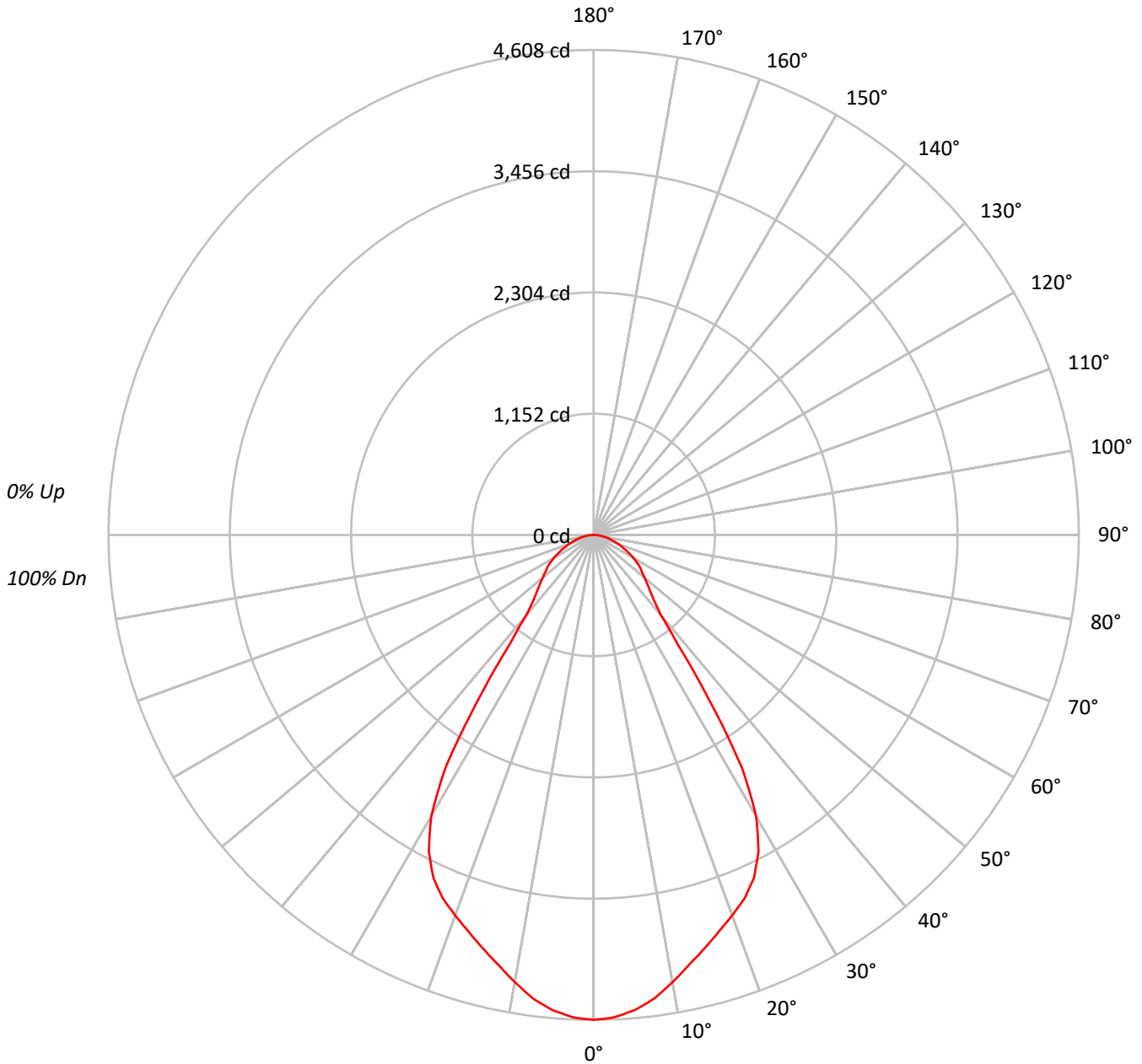
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89		
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79		
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71		
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64		
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58		
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42		
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39		

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

	0°
0°	142084
5°	140234
10°	135102
15°	129816
20°	126227
25°	122429
30°	109861
35°	72017
40°	39819
45°	33195
50°	30266
55°	28881
60°	26858
65°	24356
70°	22017
75°	19885
80°	18060
85°	17301



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	425.7	7.0
10°-20°	1147.3	19.0
20°-30°	1632.7	27.0
30°-40°	1208.4	20.0
40°-50°	598.5	9.9
50°-60°	477.7	7.9
60°-70°	331.6	5.5
70°-80°	178.7	3.0
80°-90°	52.6	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°	3205.6	53.0
0°-40°	4414.1	72.9
0°-60°	5490.2	90.7
0°-90°	6053.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6053.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4608	
5°	4530	426
15°	4066	1147
25°	3598	1633
35°	1913	1208
45°	761	599
55°	537	478
65°	334	332
75°	167	179
85°	49	53
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4607.7
2.5°	4587.4
5°	4530.4
7.5°	4440.8
10°	4314.7
12.5°	4184.4
15°	4066.4
17.5°	3952.5
20°	3846.6
22.5°	3740.8
25°	3598.3
27.5°	3390.7
30°	3085.4
32.5°	2617.3
35°	1913.1
37.5°	1306.7
40°	989.2
42.5°	846.7
45°	761.2
47.5°	691.9
50°	630.9
52.5°	578.0
55°	537.2
57.5°	488.5
60°	435.5
62.5°	382.7
65°	333.8
67.5°	284.9
70°	244.2
72.5°	203.6
75°	166.9
77.5°	134.3
80°	101.7
82.5°	73.2
85°	48.9
87.5°	20.4
90°	0.0



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— 0°-180°







(END OF REPORT)