

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: P585040

Luminaire Tested: **HC855D010-HM82555940-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585040  
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-HM82555940-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5761.1 lumens  
Efficiency: N/A  
Efficacy: 110.8 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

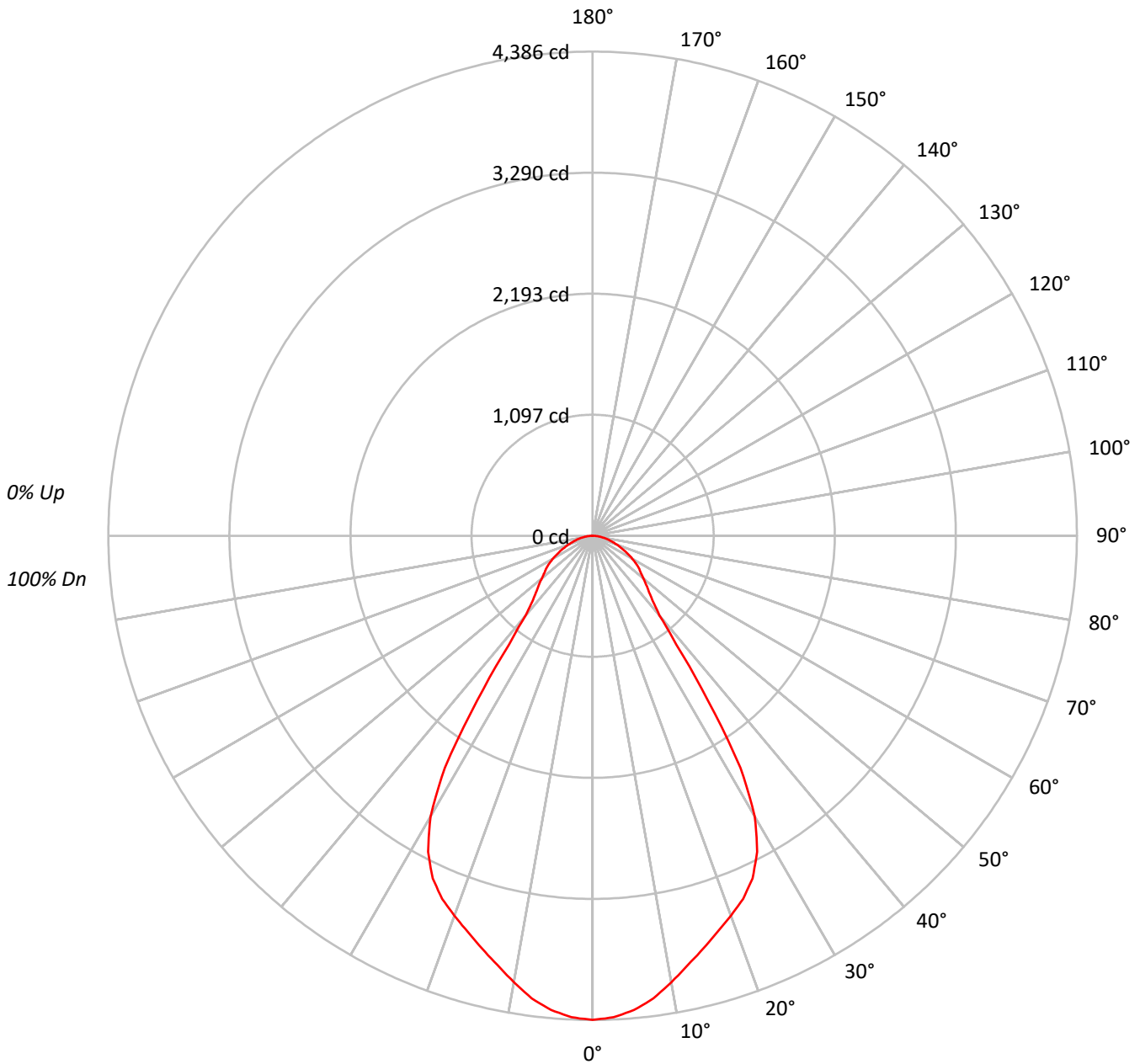
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	135233
5°	133471
10°	128586
15°	123553
20°	120137
25°	116522
30°	104563
35°	68543
40°	37895
45°	31590
50°	28808
55°	27488
60°	25563
65°	23181
70°	20953
75°	18920
80°	17190
85°	16452



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	405.1	7.0
10°-20°	1091.9	19.0
20°-30°	1553.9	27.0
30°-40°	1150.1	20.0
40°-50°	569.6	9.9
50°-60°	454.6	7.9
60°-70°	315.6	5.5
70°-80°	170.1	3.0
80°-90°	50.0	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°	3051.0	53.0
0°-40°	4201.1	72.9
0°-60°	5225.4	90.7
0°-90°	5761.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5761.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4386	
5°	4312	405
15°	3870	1092
25°	3425	1554
35°	1821	1150
45°	724	570
55°	511	455
65°	318	316
75°	159	170
85°	46	50
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4385.5
2.5°	4366.1
5°	4311.9
7.5°	4226.6
10°	4106.6
12.5°	3982.6
15°	3870.2
17.5°	3761.8
20°	3661.0
22.5°	3560.3
25°	3424.7
27.5°	3227.1
30°	2936.6
32.5°	2491.1
35°	1820.8
37.5°	1243.6
40°	941.4
42.5°	805.9
45°	724.4
47.5°	658.5
50°	600.5
52.5°	550.1
55°	511.3
57.5°	464.9
60°	414.5
62.5°	364.1
65°	317.7
67.5°	271.2
70°	232.4
72.5°	193.7
75°	158.8
77.5°	127.9
80°	96.8
82.5°	69.7
85°	46.5
87.5°	19.3
90°	0.0



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— 0°-180°







(END OF REPORT)