

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: P584989

Luminaire Tested: **HC855D010-HM82555927-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584989  
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-HM82555927-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4353.4 lumens  
Efficiency: N/A  
Efficacy: 83.7 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

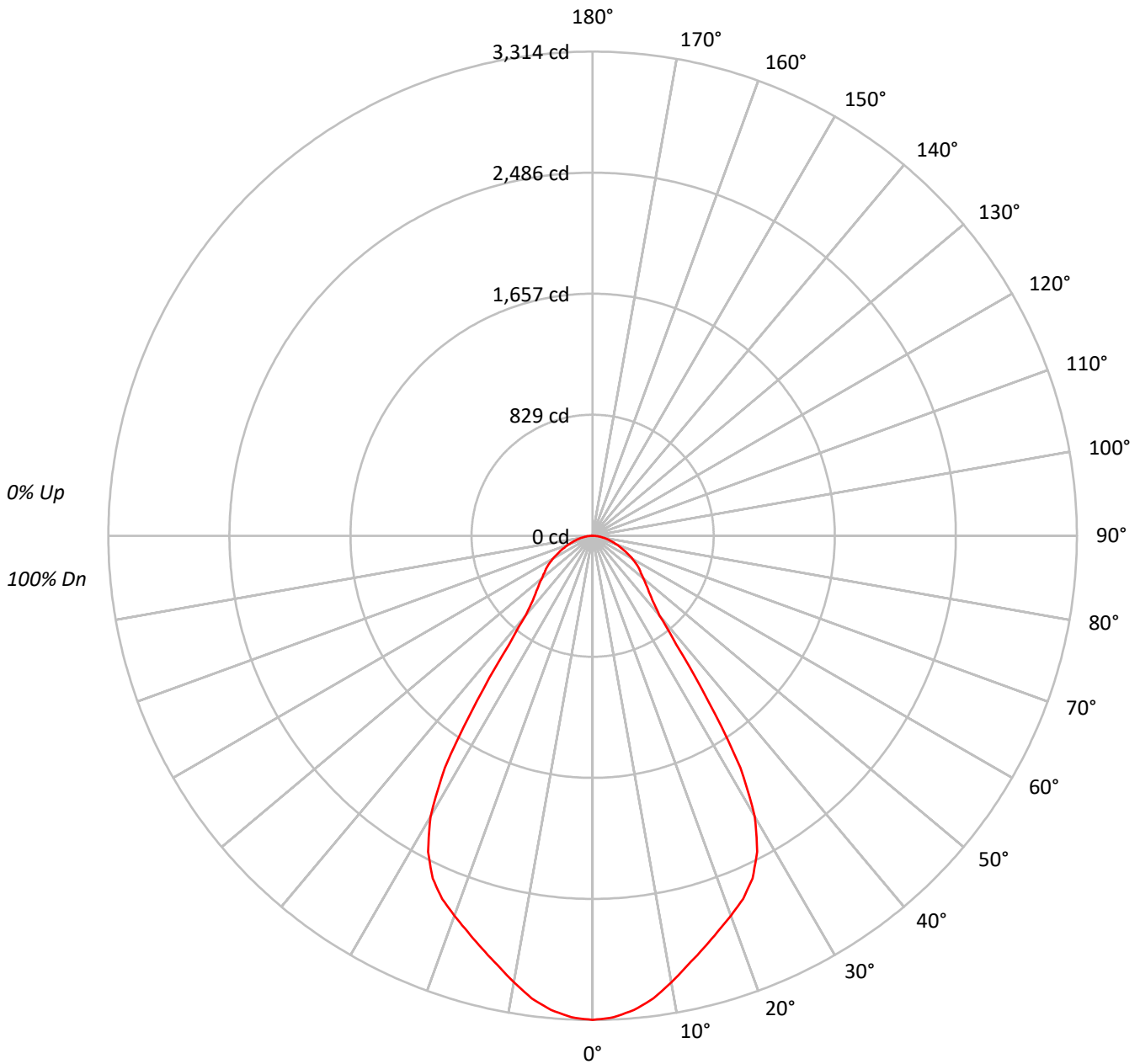
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	102188
5°	100858
10°	97164
15°	93362
20°	90784
25°	88051
30°	79015
35°	51795
40°	28637
45°	23872
50°	21770
55°	20773
60°	19322
65°	17512
70°	15841
75°	14297
80°	12981
85°	12454



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.1	7.0
10°-20°	825.1	19.0
20°-30°	1174.3	27.0
30°-40°	869.1	20.0
40°-50°	430.5	9.9
50°-60°	343.5	7.9
60°-70°	238.5	5.5
70°-80°	128.5	3.0
80°-90°	37.8	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°	2305.5	53.0
0°-40°	3174.6	72.9
0°-60°	3948.6	90.7
0°-90°	4353.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4353.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3314	
5°	3258	306
15°	2924	825
25°	2588	1174
35°	1376	869
45°	547	430
55°	386	344
65°	240	238
75°	120	129
85°	35	38
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3313.9
2.5°	3299.3
5°	3258.3
7.5°	3193.8
10°	3103.1
12.5°	3009.5
15°	2924.5
17.5°	2842.6
20°	2766.5
22.5°	2690.3
25°	2587.9
27.5°	2438.6
30°	2219.1
32.5°	1882.3
35°	1375.9
37.5°	939.7
40°	711.4
42.5°	609.0
45°	547.4
47.5°	497.6
50°	453.8
52.5°	415.7
55°	386.4
57.5°	351.2
60°	313.3
62.5°	275.2
65°	240.0
67.5°	204.9
70°	175.7
72.5°	146.4
75°	120.0
77.5°	96.6
80°	73.1
82.5°	52.7
85°	35.2
87.5°	14.6
90°	0.0



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— 0°-180°







(END OF REPORT)