

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: P584934

Luminaire Tested: **HC855D010-HM82555830-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC855D010-HM82555830-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5251.2 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

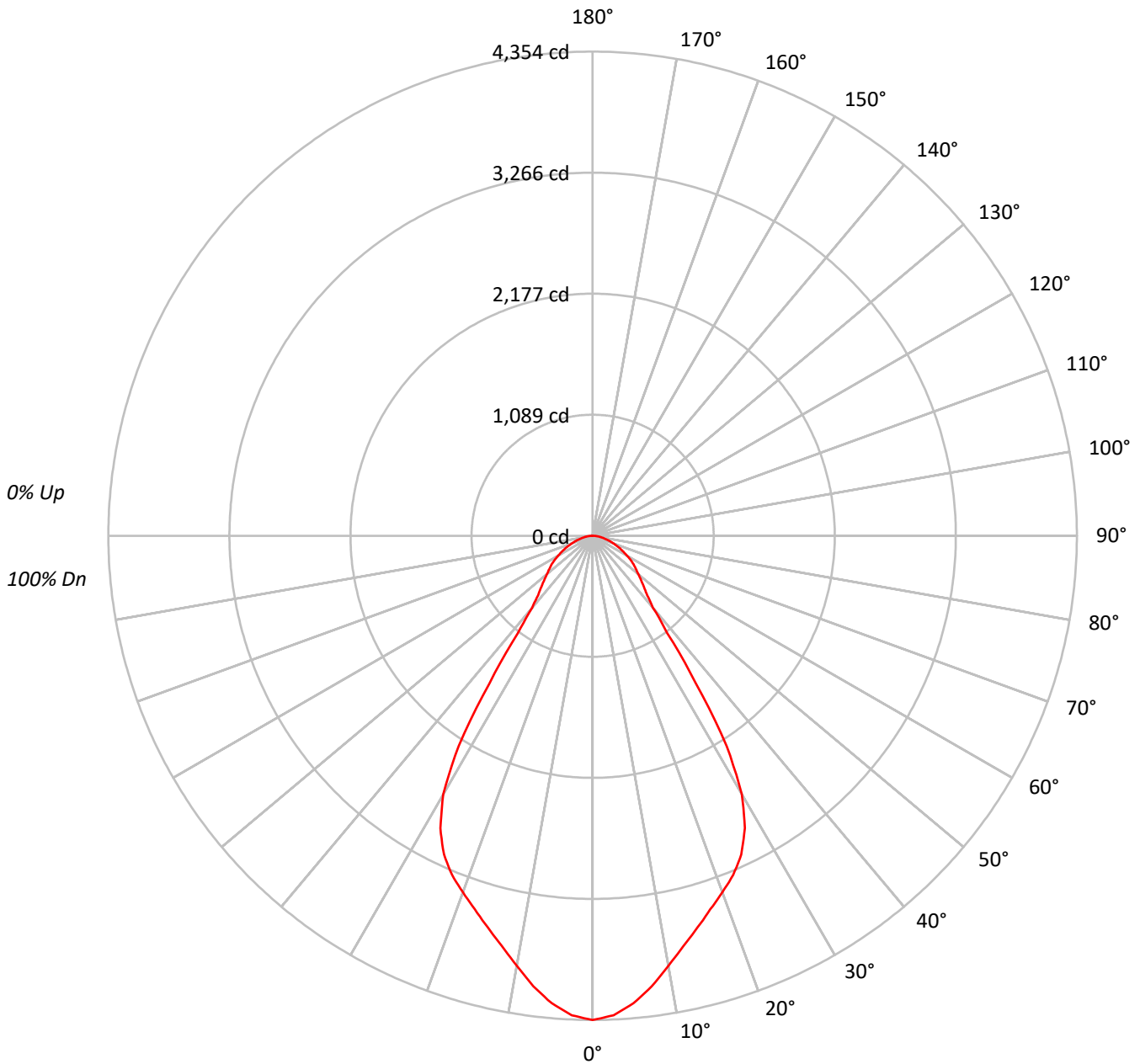
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	134274
5°	130617
10°	122912
15°	116373
20°	111940
25°	107618
30°	95576
35°	60867
40°	33974
45°	28455
50°	25689
55°	24209
60°	22091
65°	19927
70°	17581
75°	15620
80°	13869
85°	12560



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.4	7.5
10°-20°	1028.0	19.6
20°-30°	1434.2	27.3
30°-40°	1032.0	19.7
40°-50°	511.4	9.7
50°-60°	400.1	7.6
60°-70°	270.9	5.2
70°-80°	140.7	2.7
80°-90°	40.5	0.8
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°	2855.6	54.4
0°-40°	3887.6	74.0
0°-60°	4799.1	91.4
0°-90°	5251.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5251.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4354	
5°	4220	393
15°	3645	1028
25°	3163	1434
35°	1617	1032
45°	652	511
55°	450	400
65°	273	271
75°	131	141
85°	36	41
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4354.4
2.5°	4315.4
5°	4219.7
7.5°	4084.9
10°	3925.4
12.5°	3776.4
15°	3645.3
17.5°	3521.2
20°	3411.2
22.5°	3301.3
25°	3163.0
27.5°	2964.5
30°	2684.2
32.5°	2244.6
35°	1616.9
37.5°	1102.7
40°	844.0
42.5°	726.9
45°	652.5
47.5°	588.6
50°	535.5
52.5°	489.3
55°	450.3
57.5°	404.2
60°	358.2
62.5°	312.0
65°	273.1
67.5°	234.0
70°	195.0
72.5°	163.1
75°	131.1
77.5°	102.8
80°	78.1
82.5°	56.7
85°	35.5
87.5°	17.7
90°	0.0



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— 0°-180°







(END OF REPORT)