

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: P584985

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584985
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-HM82555927-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4335.9 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

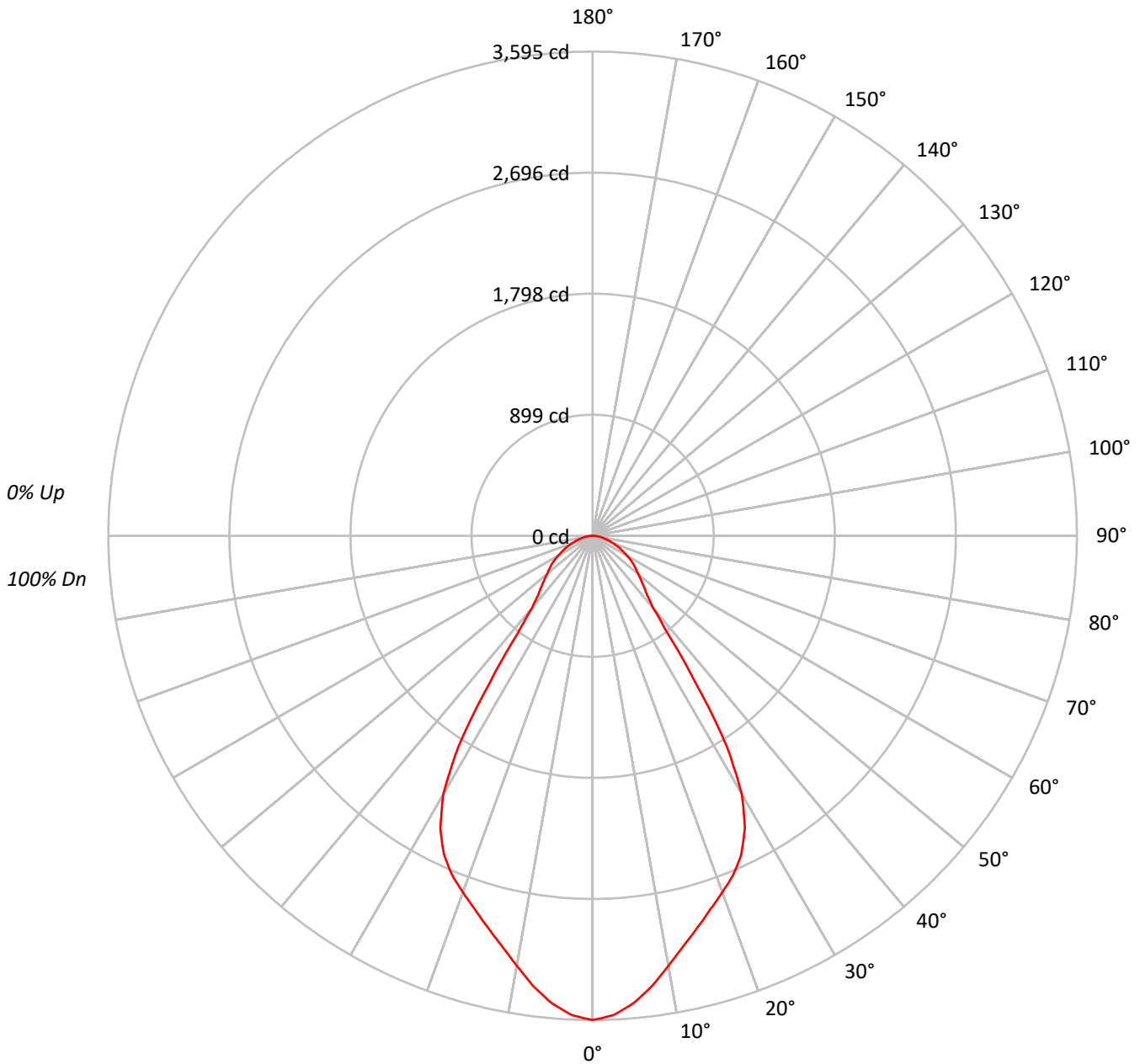
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	110866
5°	107847
10°	101482
15°	96085
20°	92428
25°	88857
30°	78919
35°	50259
40°	28053
45°	23497
50°	21209
55°	19994
60°	18237
65°	16454
70°	14516
75°	12903
80°	11454
85°	10367



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.8	7.5
10°-20°	848.8	19.6
20°-30°	1184.2	27.3
30°-40°	852.1	19.7
40°-50°	422.3	9.7
50°-60°	330.4	7.6
60°-70°	223.7	5.2
70°-80°	116.2	2.7
80°-90°	33.5	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°	2357.8	54.4
0°-40°	3209.9	74.0
0°-60°	3962.6	91.4
0°-90°	4335.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4335.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3595	
5°	3484	325
15°	3010	849
25°	2612	1184
35°	1335	852
45°	539	422
55°	372	330
65°	226	224
75°	108	116
85°	29	33
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3595.3
2.5°	3563.1
5°	3484.1
7.5°	3372.9
10°	3241.0
12.5°	3118.1
15°	3009.8
17.5°	2907.4
20°	2816.6
22.5°	2725.8
25°	2611.6
27.5°	2447.6
30°	2216.4
32.5°	1853.3
35°	1335.1
37.5°	910.5
40°	696.9
42.5°	600.2
45°	538.8
47.5°	486.0
50°	442.1
52.5°	404.0
55°	371.9
57.5°	333.8
60°	295.7
62.5°	257.6
65°	225.5
67.5°	193.3
70°	161.0
72.5°	134.7
75°	108.3
77.5°	84.9
80°	64.5
82.5°	46.9
85°	29.3
87.5°	14.6
90°	0.0



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— 0°-180°







(END OF REPORT)