

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: P584849

Luminaire Tested: **HC850D010-HM82555927-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584849
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: HC850D010-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: 4142.2 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

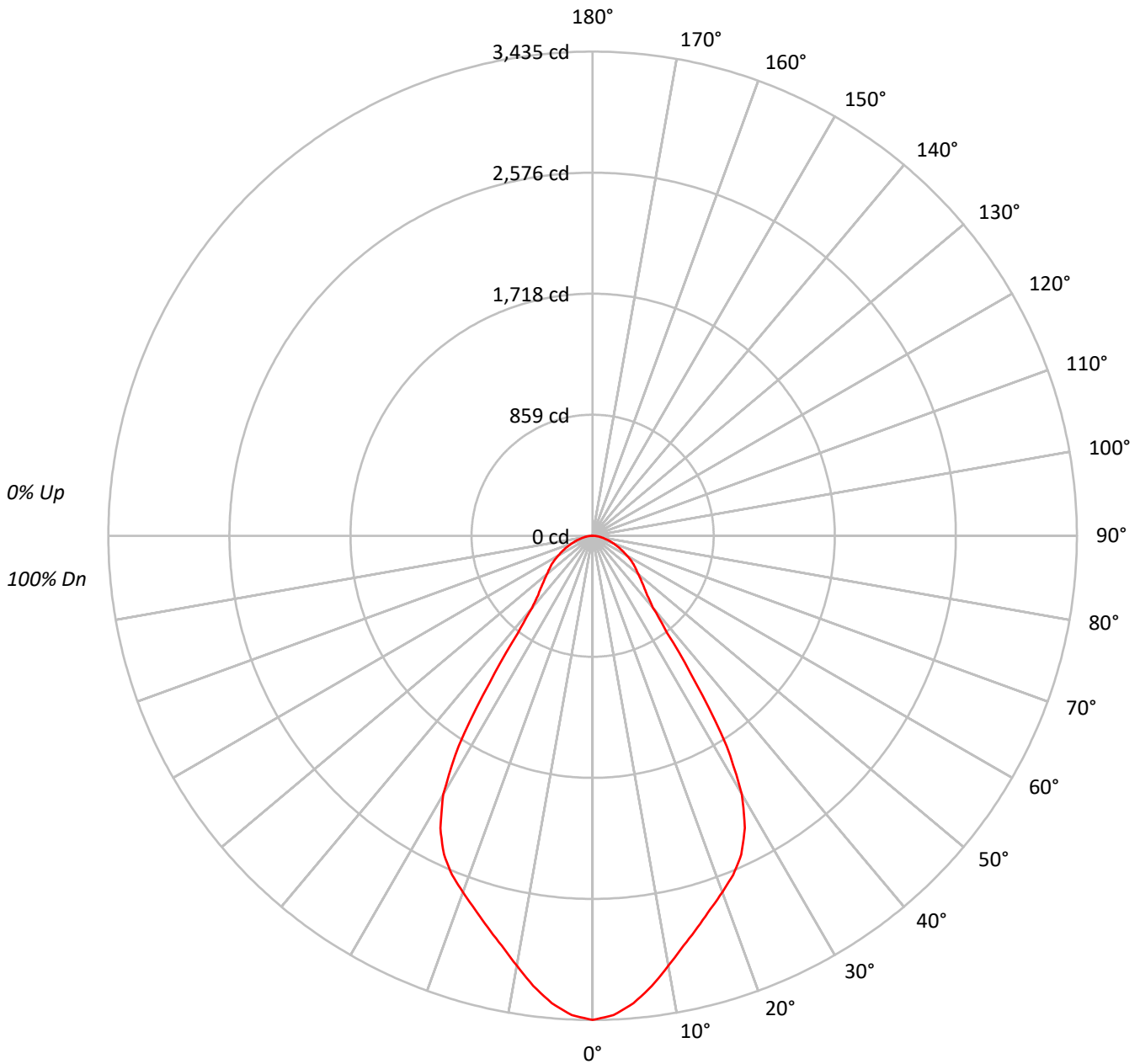
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	105917
5°	103031
10°	96951
15°	91795
20°	88296
25°	84890
30°	75390
35°	48015
40°	26797
45°	22441
50°	20264
55°	19101
60°	17423
65°	15709
70°	13867
75°	12331
80°	10921
85°	9871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.3	7.5
10°-20°	810.9	19.6
20°-30°	1131.3	27.3
30°-40°	814.0	19.7
40°-50°	403.4	9.7
50°-60°	315.7	7.6
60°-70°	213.7	5.2
70°-80°	111.0	2.7
80°-90°	32.0	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°	2252.5	54.4
0°-40°	3066.5	74.0
0°-60°	3785.6	91.4
0°-90°	4142.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4142.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3435	
5°	3328	310
15°	2875	811
25°	2495	1131
35°	1276	814
45°	515	403
55°	355	316
65°	215	214
75°	104	111
85°	28	32
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3434.8
2.5°	3404.0
5°	3328.5
7.5°	3222.1
10°	3096.3
12.5°	2978.8
15°	2875.4
17.5°	2777.4
20°	2690.7
22.5°	2604.1
25°	2495.0
27.5°	2338.4
30°	2117.3
32.5°	1770.6
35°	1275.5
37.5°	869.9
40°	665.7
42.5°	573.4
45°	514.6
47.5°	464.3
50°	422.4
52.5°	386.0
55°	355.3
57.5°	318.9
60°	282.5
62.5°	246.2
65°	215.3
67.5°	184.6
70°	153.8
72.5°	128.7
75°	103.5
77.5°	81.1
80°	61.5
82.5°	44.8
85°	27.9
87.5°	14.0
90°	0.0



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— 0°-180°







(END OF REPORT)