

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: P584781

Luminaire Tested: **HC850D010-HM82555827-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584781
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-HM82555827-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5137.3 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

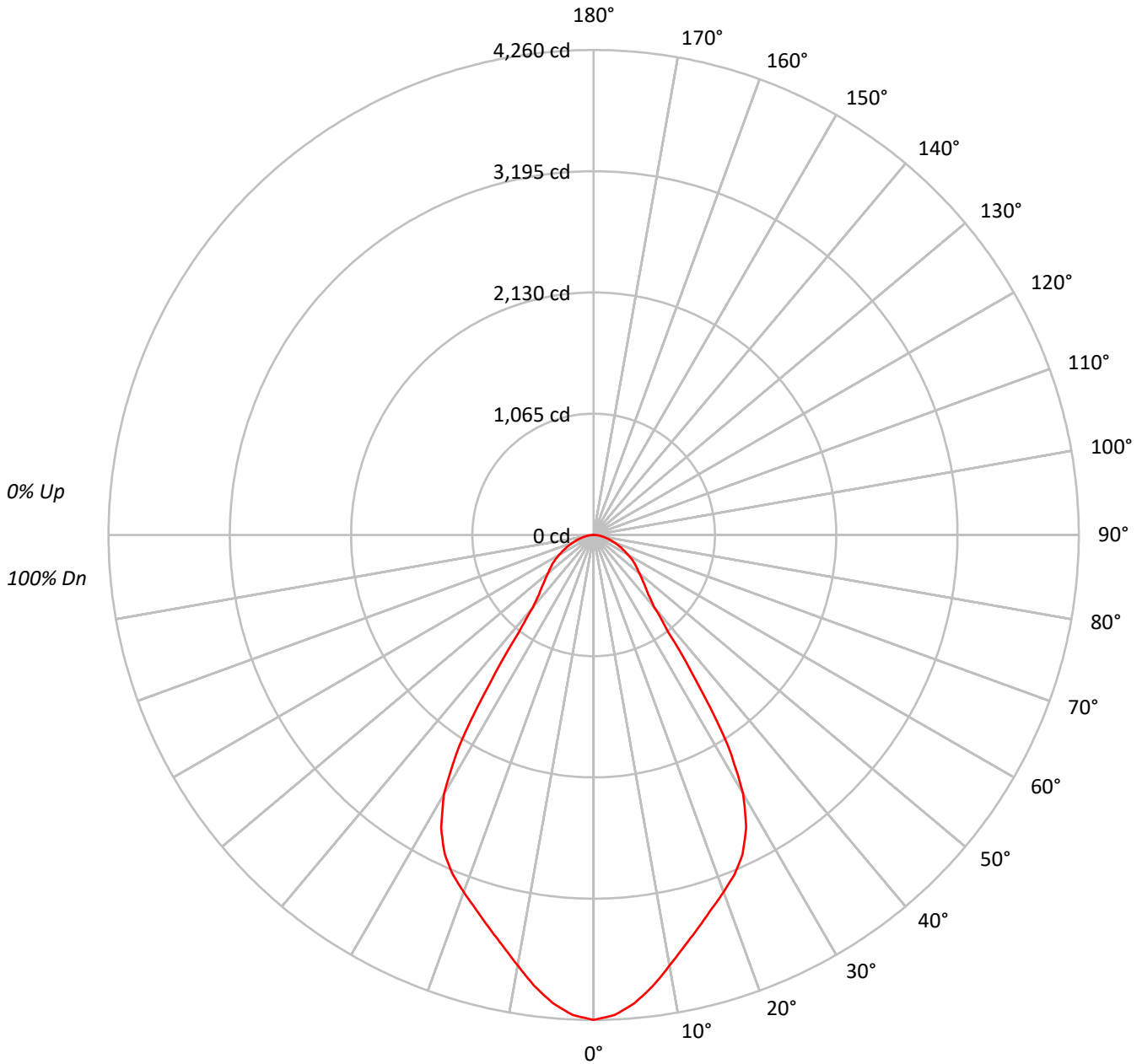
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	131363
5°	127782
10°	120244
15°	113848
20°	109508
25°	105281
30°	93503
35°	59549
40°	33238
45°	27836
50°	25128
55°	23687
60°	21604
65°	19489
70°	17202
75°	15298
80°	13549
85°	12277



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.8	7.5
10°-20°	1005.7	19.6
20°-30°	1403.0	27.3
30°-40°	1009.6	19.7
40°-50°	500.3	9.7
50°-60°	391.5	7.6
60°-70°	265.0	5.2
70°-80°	137.7	2.7
80°-90°	39.6	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°	2793.6	54.4
0°-40°	3803.2	74.0
0°-60°	4695.0	91.4
0°-90°	5137.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5137.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4260	
5°	4128	385
15°	3566	1006
25°	3094	1403
35°	1582	1010
45°	638	500
55°	441	391
65°	267	265
75°	128	138
85°	35	40
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4260.0
2.5°	4221.7
5°	4128.1
7.5°	3996.2
10°	3840.2
12.5°	3694.5
15°	3566.2
17.5°	3444.7
20°	3337.1
22.5°	3229.6
25°	3094.3
27.5°	2900.1
30°	2626.0
32.5°	2195.8
35°	1581.9
37.5°	1078.9
40°	825.7
42.5°	711.1
45°	638.3
47.5°	575.8
50°	523.8
52.5°	478.7
55°	440.6
57.5°	395.5
60°	350.3
62.5°	305.2
65°	267.1
67.5°	229.0
70°	190.8
72.5°	159.6
75°	128.4
77.5°	100.7
80°	76.3
82.5°	55.5
85°	34.7
87.5°	17.3
90°	0.0



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— 0°-180°







(END OF REPORT)