

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: P584802

Luminaire Tested: **HC850D010-HM82555830-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584802
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: HC850D010-HM82555830-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5037.0 lumens
Efficiency: N/A
Efficacy: 104.9 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

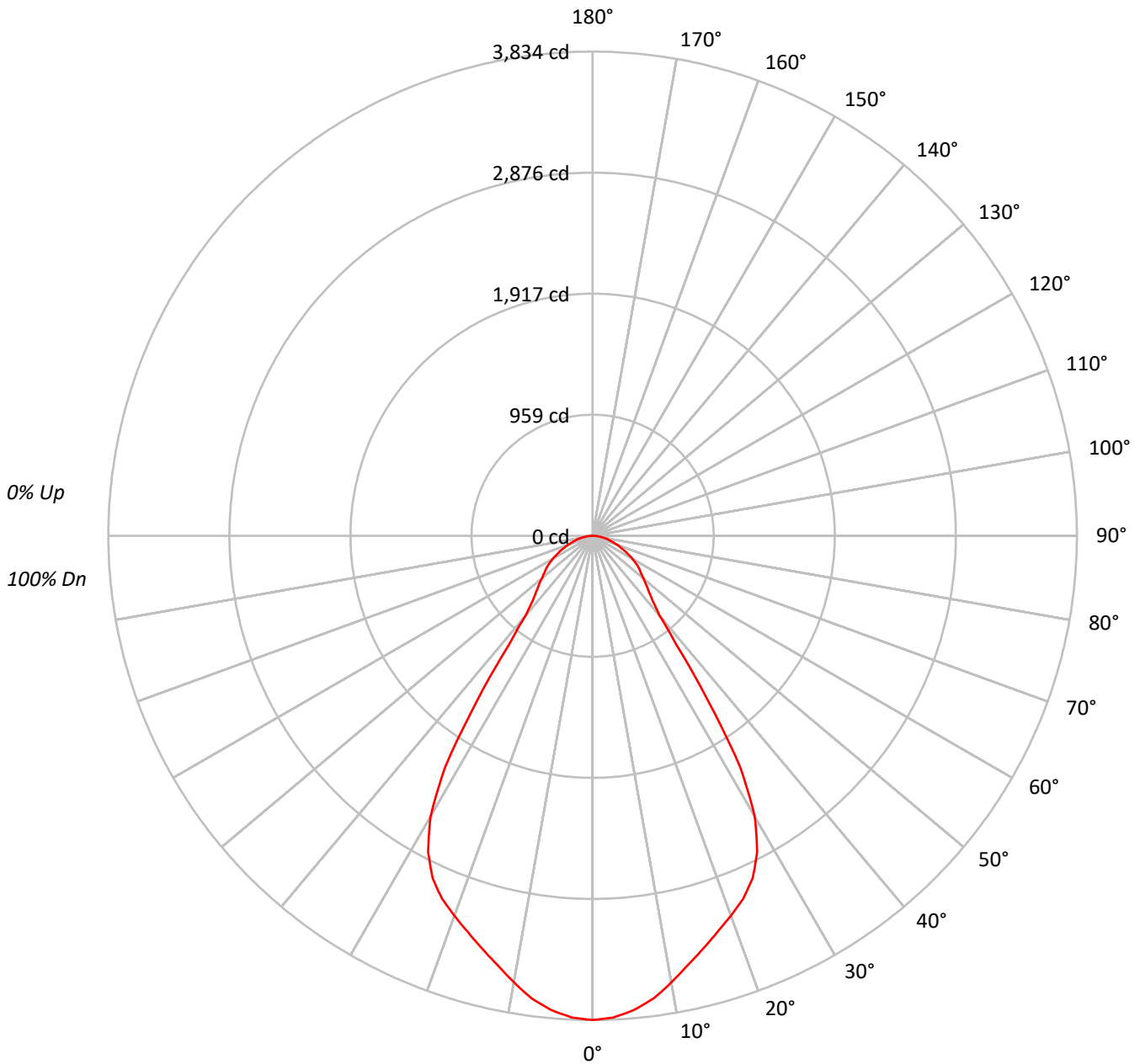
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	118233
5°	116694
10°	112420
15°	108022
20°	105035
25°	101875
30°	91420
35°	59926
40°	33133
45°	27622
50°	25186
55°	24037
60°	22350
65°	20270
70°	18320
75°	16549
80°	15023
85°	14400



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.2	7.0
10°-20°	954.7	19.0
20°-30°	1358.6	27.0
30°-40°	1005.6	20.0
40°-50°	498.1	9.9
50°-60°	397.5	7.9
60°-70°	275.9	5.5
70°-80°	148.7	3.0
80°-90°	43.8	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°	2667.5	53.0
0°-40°	3673.0	72.9
0°-60°	4568.6	90.7
0°-90°	5037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5037.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3834	
5°	3770	354
15°	3384	955
25°	2994	1359
35°	1592	1006
45°	633	498
55°	447	397
65°	278	276
75°	139	149
85°	41	44
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3834.2
2.5°	3817.3
5°	3769.9
7.5°	3695.3
10°	3590.3
12.5°	3482.0
15°	3383.7
17.5°	3288.9
20°	3200.8
22.5°	3112.8
25°	2994.2
27.5°	2821.5
30°	2567.5
32.5°	2178.0
35°	1591.9
37.5°	1087.3
40°	823.1
42.5°	704.6
45°	633.4
47.5°	575.8
50°	525.0
52.5°	480.9
55°	447.1
57.5°	406.5
60°	362.4
62.5°	318.4
65°	277.8
67.5°	237.1
70°	203.2
72.5°	169.4
75°	138.9
77.5°	111.8
80°	84.6
82.5°	61.0
85°	40.7
87.5°	17.0
90°	0.0



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— 0°-180°







(END OF REPORT)