

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: P584921

Luminaire Tested: **HC855D010-HM82555827-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584921
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: HC855D010-HM82555827-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5399.3 lumens
Efficiency: N/A
Efficacy: 103.8 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

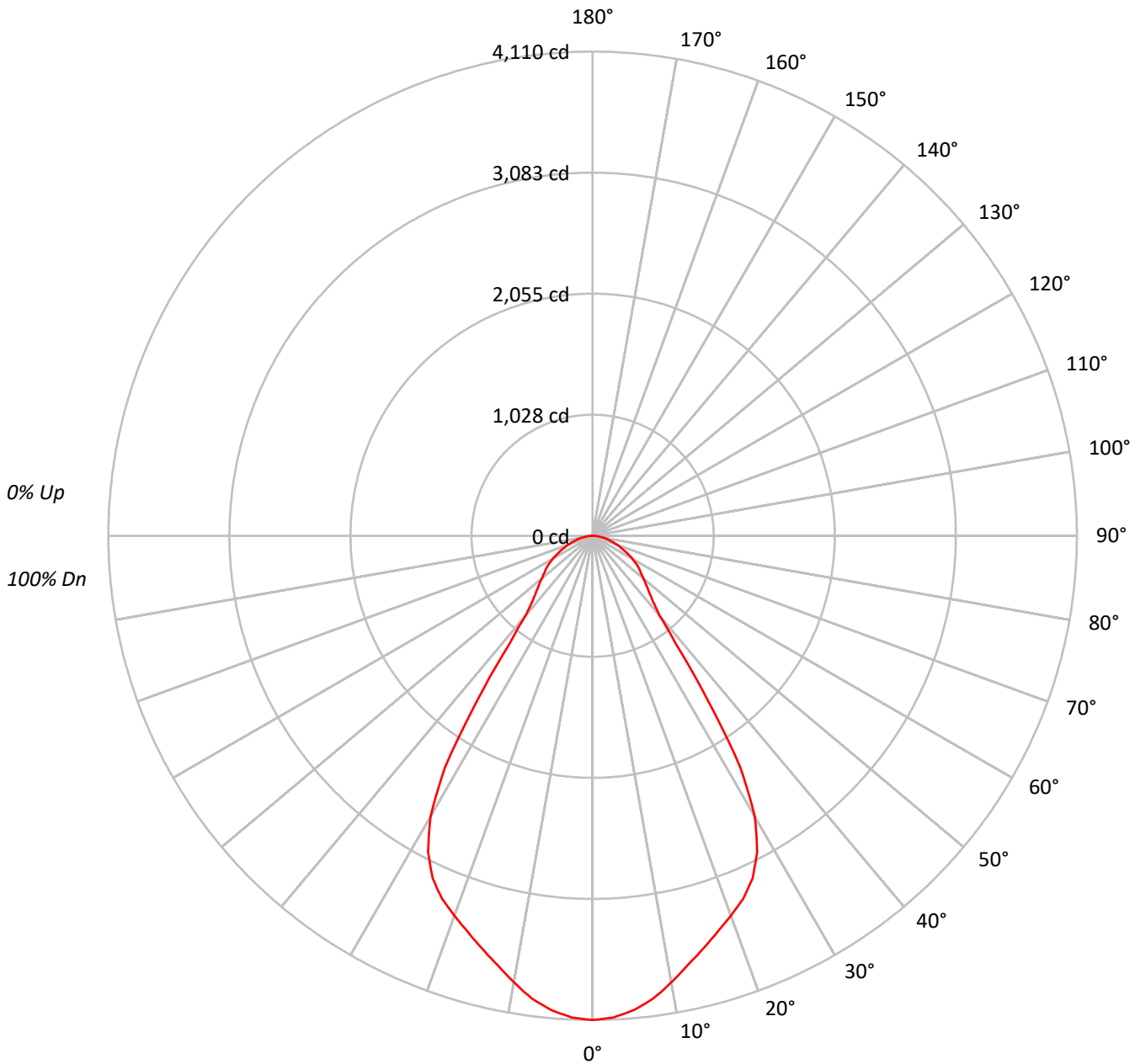
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89	89	89	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79	79	79	79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71	71	71	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64	64	64	64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53	53	53	53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49	49	49	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42	42	42	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39	39	39	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	126740
5°	125089
10°	120507
15°	115792
20°	112593
25°	109204
30°	97993
35°	64236
40°	35516
45°	29606
50°	26999
55°	25762
60°	23960
65°	21722
70°	19646
75°	17728
80°	16106
85°	15426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.7	7.0
10°-20°	1023.3	19.0
20°-30°	1456.4	27.0
30°-40°	1077.9	20.0
40°-50°	533.8	9.9
50°-60°	426.1	7.9
60°-70°	295.8	5.5
70°-80°	159.4	3.0
80°-90°	46.9	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°	2859.4	53.0
0°-40°	3937.2	72.9
0°-60°	4897.2	90.7
0°-90°	5399.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5399.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4110	
5°	4041	380
15°	3627	1023
25°	3210	1456
35°	1706	1078
45°	679	534
55°	479	426
65°	298	296
75°	149	159
85°	44	47
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4110.1
2.5°	4091.9
5°	4041.1
7.5°	3961.2
10°	3848.6
12.5°	3732.5
15°	3627.1
17.5°	3525.5
20°	3431.1
22.5°	3336.7
25°	3209.6
27.5°	3024.5
30°	2752.1
32.5°	2334.6
35°	1706.4
37.5°	1165.4
40°	882.3
42.5°	755.2
45°	678.9
47.5°	617.2
50°	562.8
52.5°	515.6
55°	479.2
57.5°	435.7
60°	388.5
62.5°	341.3
65°	297.7
67.5°	254.2
70°	217.9
72.5°	181.5
75°	148.8
77.5°	119.8
80°	90.7
82.5°	65.4
85°	43.6
87.5°	18.2
90°	0.0



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— 0°-180°







(END OF REPORT)