

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: P585023

Luminaire Tested: **HC855D010-HM82555935-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585023
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-HM82555935-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5212.0 lumens
Efficiency: N/A
Efficacy: 100.2 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

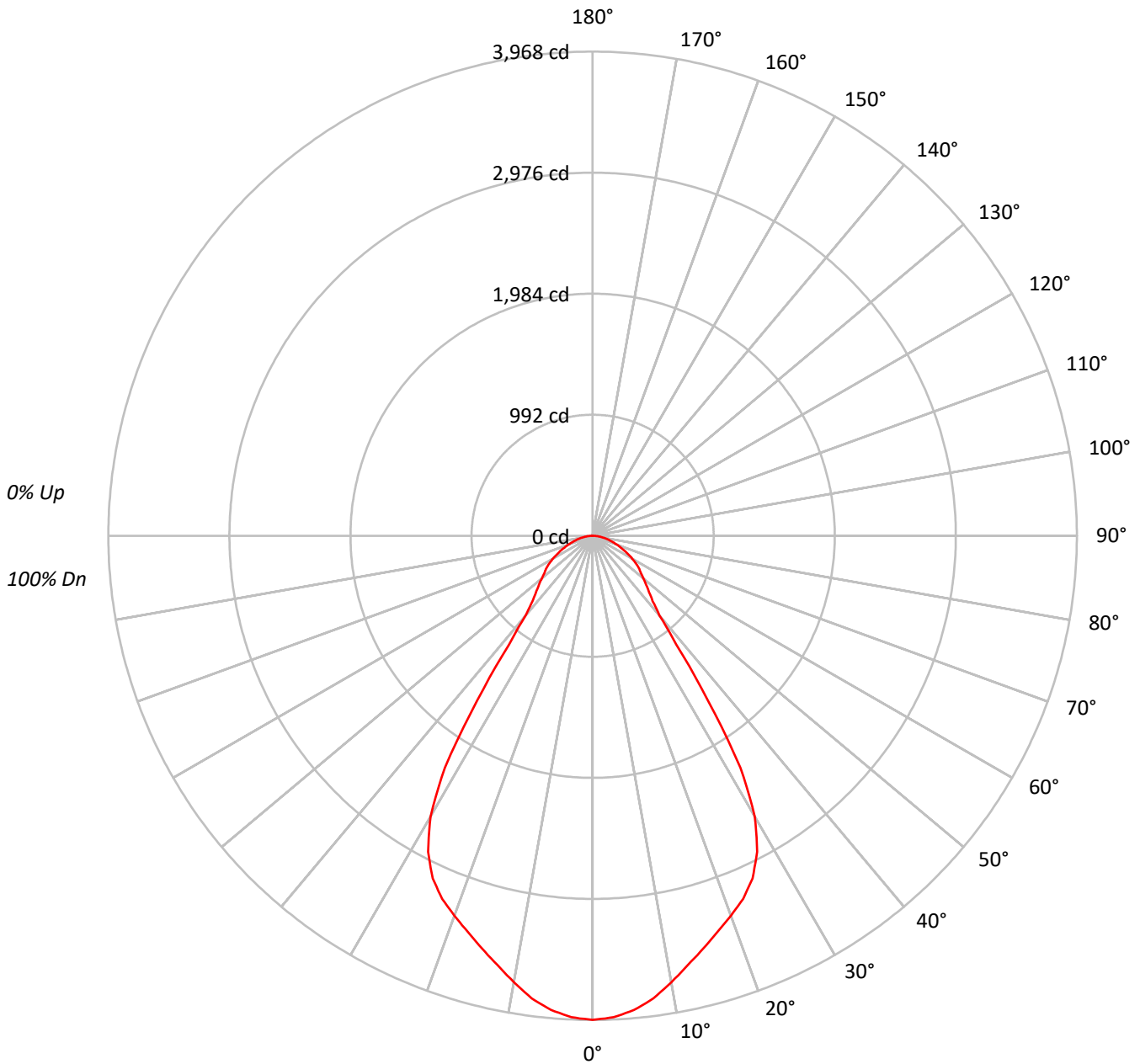
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	122343
5°	120749
10°	116327
15°	111779
20°	108688
25°	105417
30°	94596
35°	62008
40°	34284
45°	28581
50°	26059
55°	24870
60°	23127
65°	20970
70°	18961
75°	17121
80°	15574
85°	14895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.5	7.0
10°-20°	987.8	19.0
20°-30°	1405.8	27.0
30°-40°	1040.5	20.0
40°-50°	515.3	9.9
50°-60°	411.3	7.9
60°-70°	285.5	5.5
70°-80°	153.9	3.0
80°-90°	45.3	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°	2760.2	53.0
0°-40°	3800.7	72.9
0°-60°	4727.3	90.7
0°-90°	5212.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5212.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3968	
5°	3901	367
15°	3501	988
25°	3098	1406
35°	1647	1040
45°	655	515
55°	463	411
65°	287	286
75°	144	154
85°	42	45
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3967.5
2.5°	3950.0
5°	3900.9
7.5°	3823.8
10°	3715.1
12.5°	3603.0
15°	3501.4
17.5°	3403.1
20°	3312.1
22.5°	3220.9
25°	3098.3
27.5°	2919.6
30°	2656.7
32.5°	2253.6
35°	1647.2
37.5°	1125.0
40°	851.7
42.5°	729.0
45°	655.4
47.5°	595.8
50°	543.2
52.5°	497.6
55°	462.6
57.5°	420.6
60°	375.0
62.5°	329.4
65°	287.4
67.5°	245.3
70°	210.3
72.5°	175.2
75°	143.7
77.5°	115.7
80°	87.7
82.5°	63.1
85°	42.1
87.5°	17.6
90°	0.0



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— 0°-180°







(END OF REPORT)