

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: P581255

Luminaire Tested: **HC455D010-HM44560940-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC455D010-HM44560940-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3950.0 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

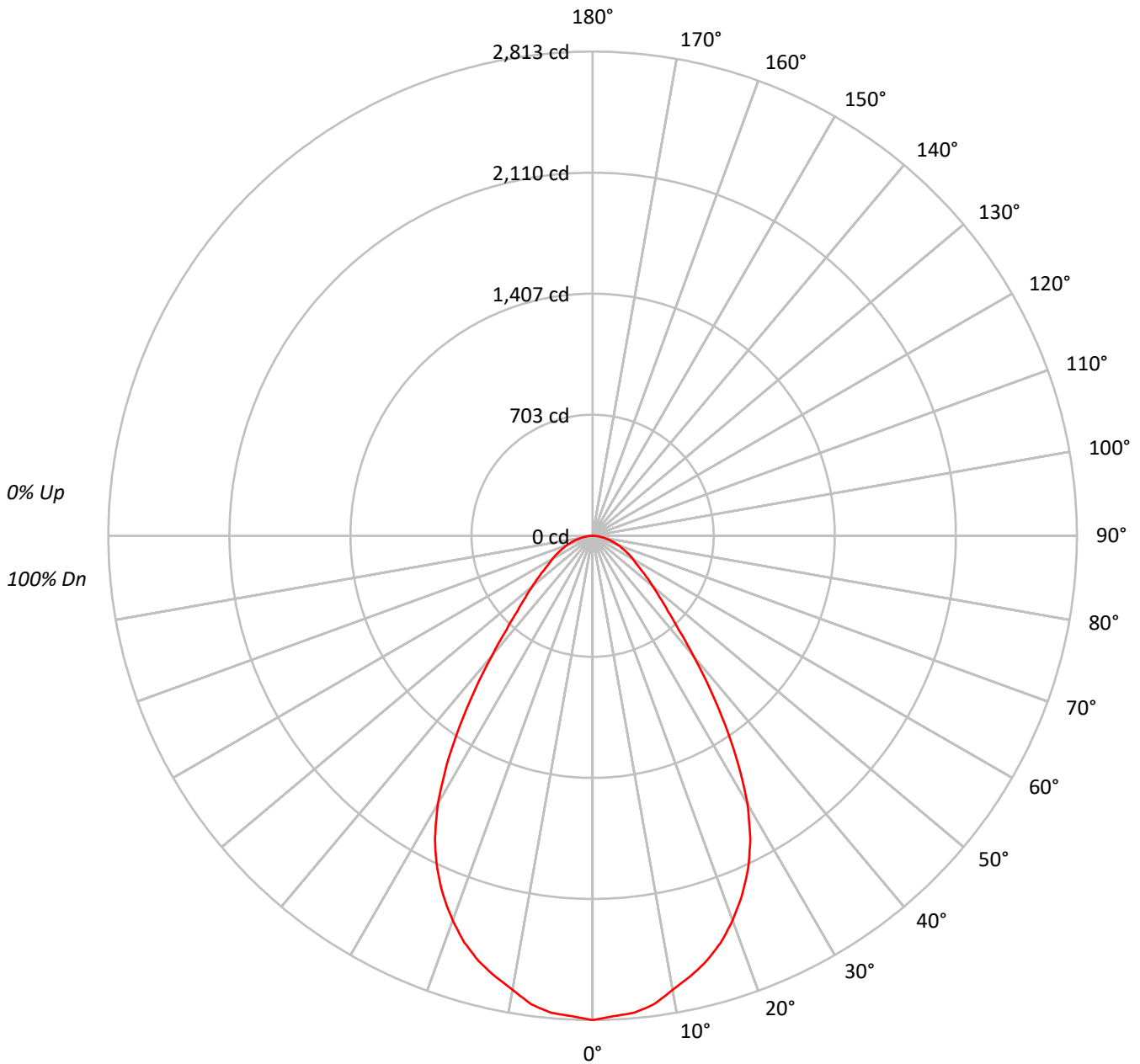
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89			89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			52
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	347021
5°	344434
10°	335478
15°	326636
20°	312009
25°	290689
30°	255970
35°	201879
40°	146525
45°	107663
50°	87579
55°	73481
60°	66582
65°	61174
70°	56981
75°	51994
80°	46881
85°	40617



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.3	6.6
10°-20°	717.5	18.2
20°-30°	972.6	24.6
30°-40°	834.6	21.1
40°-50°	492.8	12.5
50°-60°	312.3	7.9
60°-70°	209.8	5.3
70°-80°	115.9	2.9
80°-90°	32.4	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°	1952.3	49.4
0°-40°	2786.9	70.6
0°-60°	3591.9	90.9
0°-90°	3950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3950.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2813	
5°	2782	262
15°	2558	717
25°	2136	973
35°	1341	835
45°	617	493
55°	342	312
65°	210	210
75°	109	116
85°	29	32
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2813.4
2.5°	2793.3
5°	2781.8
7.5°	2744.5
10°	2678.5
12.5°	2621.0
15°	2557.9
17.5°	2477.5
20°	2377.0
22.5°	2265.1
25°	2135.9
27.5°	1983.7
30°	1797.2
32.5°	1576.1
35°	1340.7
37.5°	1113.9
40°	910.0
42.5°	740.7
45°	617.2
47.5°	528.2
50°	456.4
52.5°	396.2
55°	341.7
57.5°	298.6
60°	269.9
62.5°	241.2
65°	209.6
67.5°	183.7
70°	158.0
72.5°	132.1
75°	109.1
77.5°	86.2
80°	66.0
82.5°	45.9
85°	28.7
87.5°	11.5
90°	0.0



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— 0°-180°







(END OF REPORT)