

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: P581176

Luminaire Tested: **HC455D010-HM44560840-41NDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC455D010-HM44560840-41NDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5215.4 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

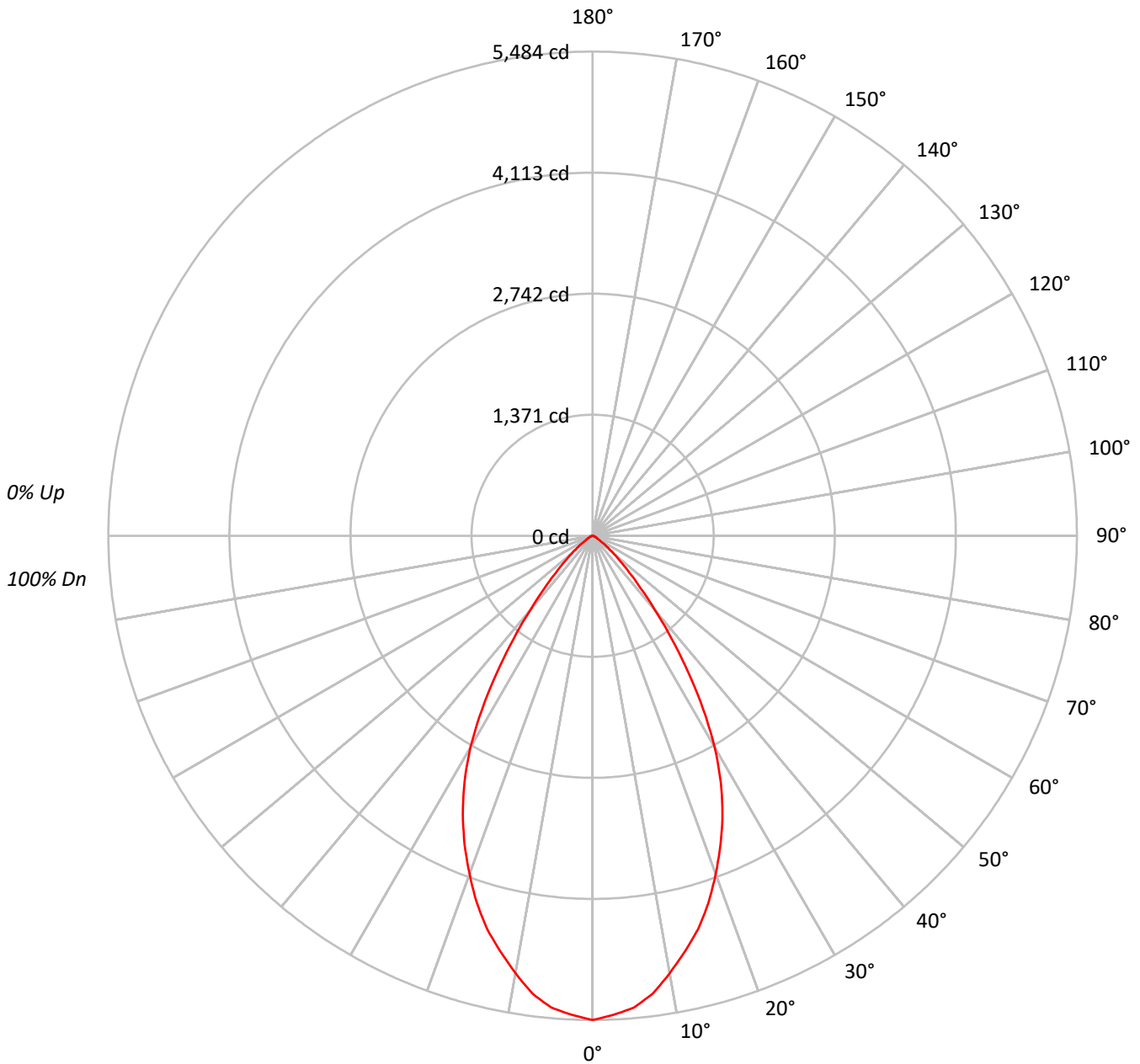
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86	86	86	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	63	63	63	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	51	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48	48	48	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	676464
5°	664153
10°	629975
15°	589027
20°	534970
25°	473399
30°	393769
35°	283943
40°	177215
45°	102220
50°	57663
55°	27461
60°	15764
65°	12054
70°	8114
75°	5338
80°	5327
85°	5236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.4	9.6
10°-20°	1286.8	24.7
20°-30°	1582.6	30.3
30°-40°	1175.4	22.5
40°-50°	477.9	9.2
50°-60°	132.3	2.5
60°-70°	41.2	0.8
70°-80°	13.8	0.3
80°-90°	4.0	0.1
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°	3370.8	64.6
0°-40°	4546.2	87.2
0°-60°	5156.3	98.9
0°-90°	5215.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5215.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5484	
5°	5364	501
15°	4613	1287
25°	3478	1583
35°	1886	1175
45°	586	478
55°	128	132
65°	41	41
75°	11	14
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5484.3
2.5°	5431.6
5°	5364.0
7.5°	5228.8
10°	5029.8
12.5°	4823.1
15°	4612.7
17.5°	4361.1
20°	4075.6
22.5°	3786.4
25°	3478.4
27.5°	3144.0
30°	2764.7
32.5°	2332.7
35°	1885.7
37.5°	1465.0
40°	1100.6
42.5°	803.8
45°	586.0
47.5°	420.8
50°	300.5
52.5°	206.6
55°	127.7
57.5°	82.7
60°	63.9
62.5°	52.5
65°	41.3
67.5°	30.0
70°	22.5
72.5°	18.8
75°	11.2
77.5°	7.5
80°	7.5
82.5°	3.7
85°	3.7
87.5°	3.7
90°	0.0



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— 0°-180°







(END OF REPORT)