

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: P581140

Luminaire Tested: **HC455D010-HM44560830-41NDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581140
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-HM44560830-41NDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4550.6 lumens
Efficiency: N/A
Efficacy: 87.5 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

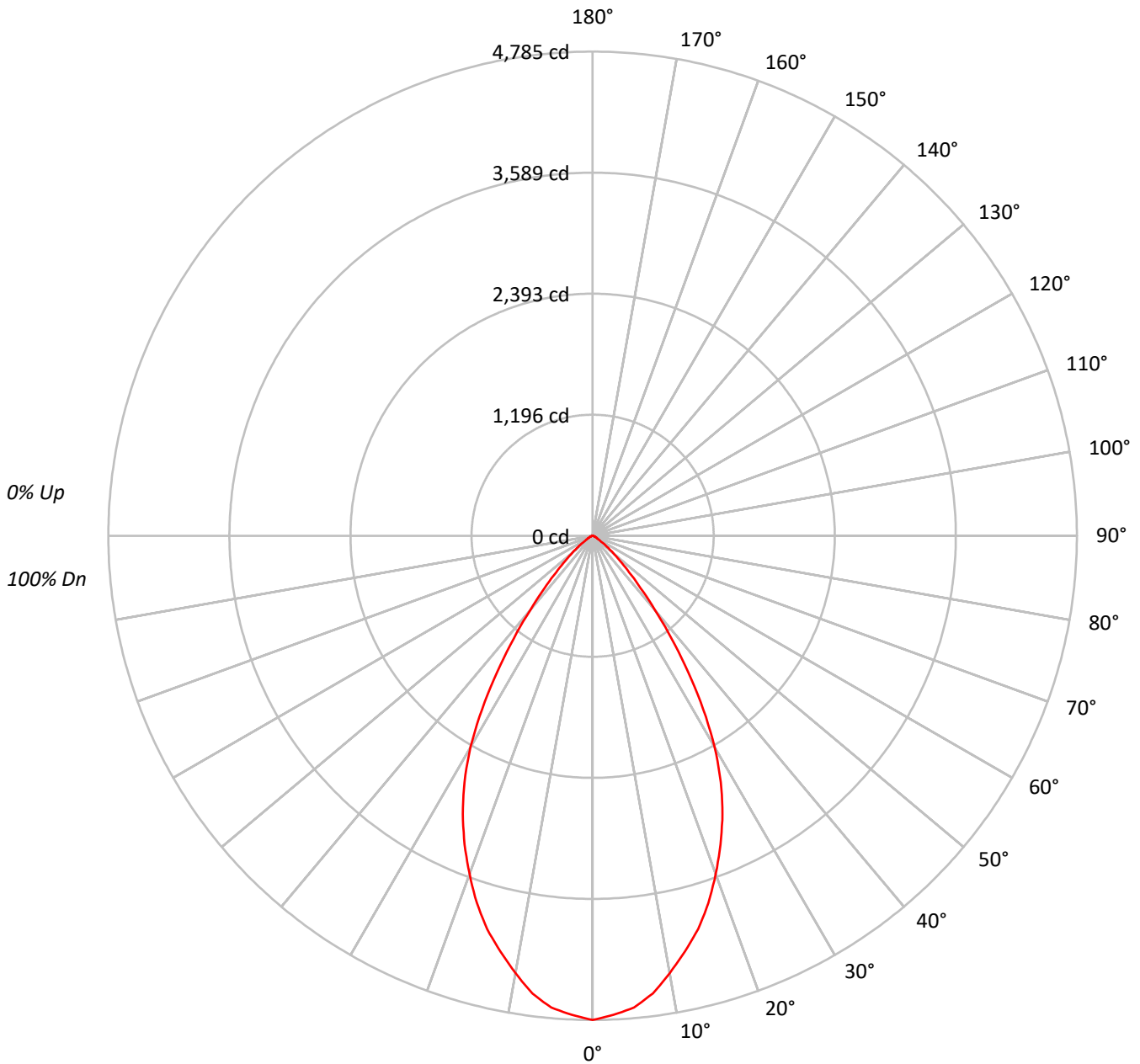
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	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°	590221
5°	579487
10°	549653
15°	513954
20°	466767
25°	413040
30°	343563
35°	247745
40°	154624
45°	89190
50°	50314
55°	23978
60°	13741
65°	10507
70°	7105
75°	4670
80°	4617
85°	4670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.5	9.6
10°-20°	1122.8	24.7
20°-30°	1380.9	30.3
30°-40°	1025.5	22.5
40°-50°	416.9	9.2
50°-60°	115.4	2.5
60°-70°	35.9	0.8
70°-80°	12.1	0.3
80°-90°	3.6	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°	2941.1	64.6
0°-40°	3966.6	87.2
0°-60°	4499.0	98.9
0°-90°	4550.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4550.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4785	
5°	4680	437
15°	4025	1123
25°	3035	1381
35°	1645	1026
45°	511	417
55°	112	115
65°	36	36
75°	10	12
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4785.1
2.5°	4739.3
5°	4680.2
7.5°	4562.2
10°	4388.5
12.5°	4208.3
15°	4024.8
17.5°	3805.2
20°	3556.0
22.5°	3303.7
25°	3034.9
27.5°	2743.2
30°	2412.2
32.5°	2035.4
35°	1645.3
37.5°	1278.2
40°	960.3
42.5°	701.3
45°	511.3
47.5°	367.1
50°	262.2
52.5°	180.2
55°	111.5
57.5°	72.1
60°	55.7
62.5°	45.9
65°	36.0
67.5°	26.2
70°	19.7
72.5°	16.4
75°	9.8
77.5°	6.5
80°	6.5
82.5°	3.3
85°	3.3
87.5°	3.3
90°	0.0



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— 0°-180°







(END OF REPORT)