

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: P581229

Luminaire Tested: **HC455D010-HM44560935-41MDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC455D010-HM44560935-41MDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4252.9 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

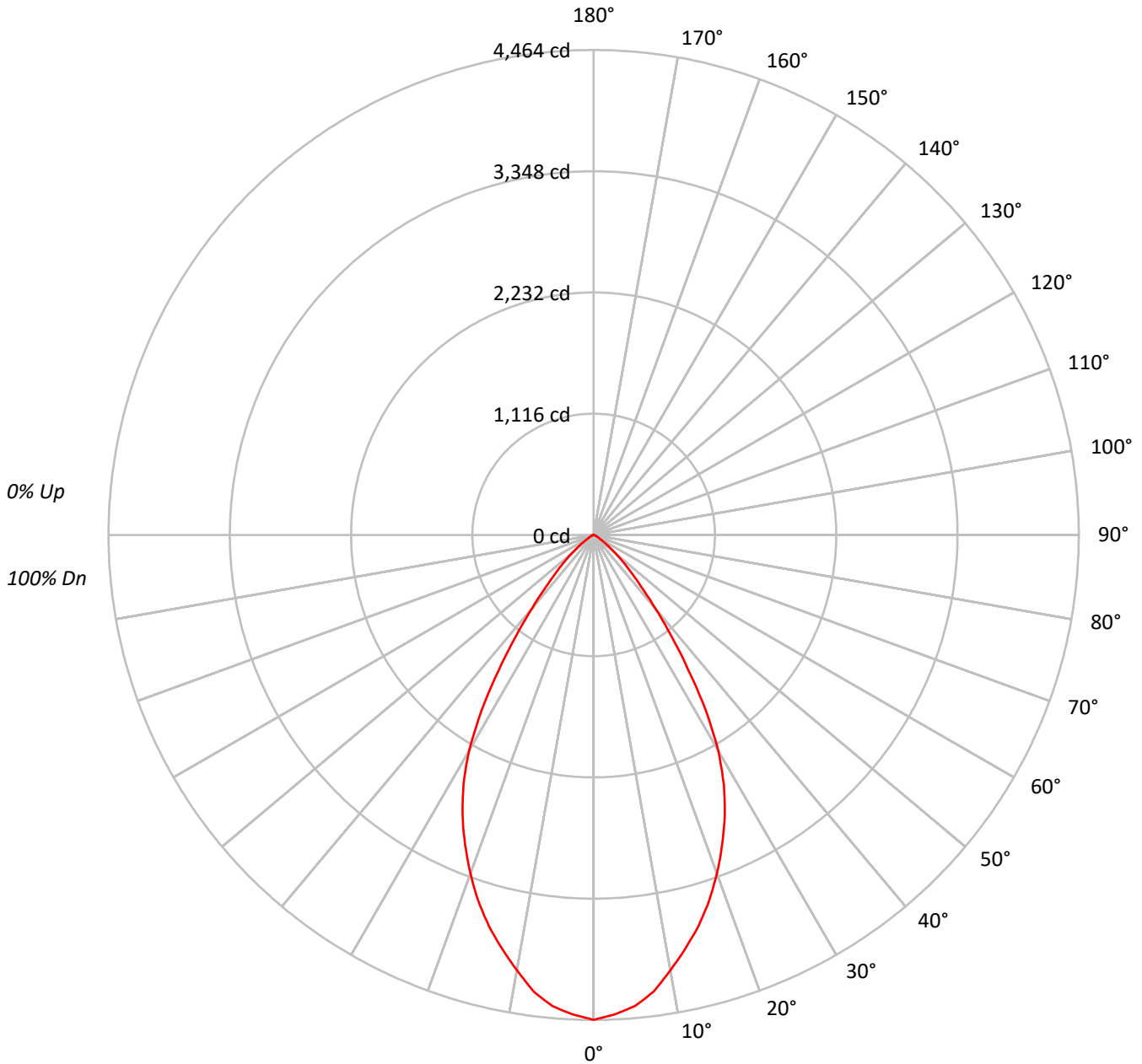
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	62	62	62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58
8	77	67	61	56	76	66	60	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	47	47	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	550590
5°	539074
10°	509435
15°	475798
20°	435172
25°	388584
30°	326329
35°	229570
40°	141598
45°	84776
50°	49949
55°	24902
60°	12853
65°	8435
70°	5229
75°	4146
80°	2060
85°	4104



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.6	9.6
10°-20°	1041.6	24.5
20°-30°	1298.9	30.5
30°-40°	956.8	22.5
40°-50°	393.5	9.3
50°-60°	115.0	2.7
60°-70°	29.5	0.7
70°-80°	9.1	0.2
80°-90°	2.0	0.0
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°	2747.0	64.6
0°-40°	3703.8	87.1
0°-60°	4212.3	99.0
0°-90°	4252.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4252.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4464	
5°	4354	407
15°	3726	1042
25°	2855	1299
35°	1525	957
45°	486	394
55°	116	115
65°	29	30
75°	9	9
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4463.8
2.5°	4417.4
5°	4353.8
7.5°	4238.1
10°	4067.4
12.5°	3899.6
15°	3726.0
17.5°	3532.3
20°	3315.3
22.5°	3089.6
25°	2855.2
27.5°	2594.9
30°	2291.2
32.5°	1923.8
35°	1524.6
37.5°	1171.6
40°	879.4
42.5°	650.9
45°	486.0
47.5°	358.8
50°	260.3
52.5°	179.3
55°	115.8
57.5°	69.4
60°	52.1
62.5°	37.6
65°	28.9
67.5°	20.2
70°	14.5
72.5°	11.6
75°	8.7
77.5°	5.7
80°	2.9
82.5°	2.9
85°	2.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)