

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: P580875

Luminaire Tested: **HC450D010-HM44560835-41WDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC450D010-HM44560835-41WDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

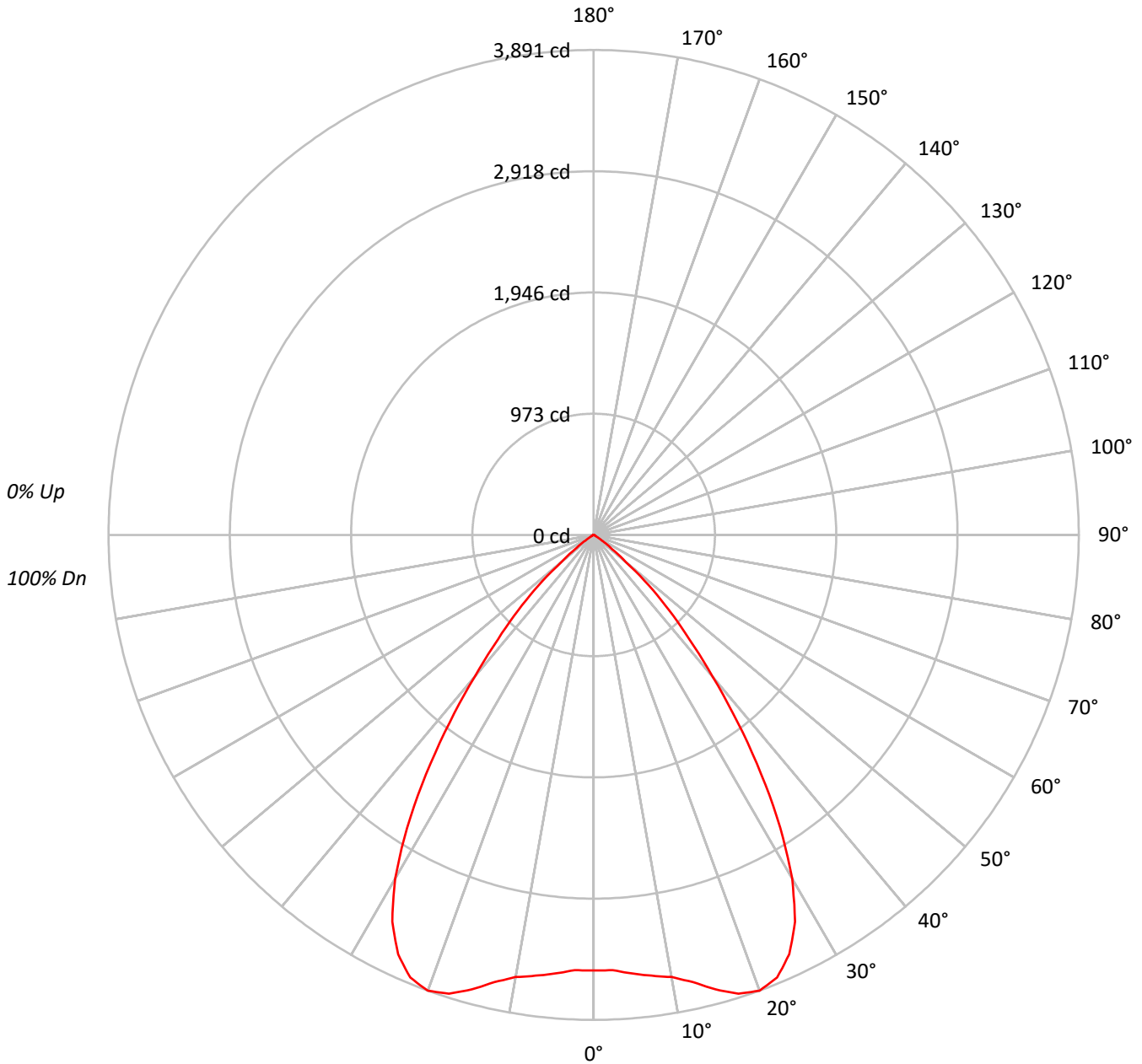
Lumens per Lamp: N/A
Luminaire Lumens: 5336.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85	85	85	85
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77	77	77	77
4	95	86	80	76	93	85	79	75	83	78	74	81	77	73	79	75	72	71	71	71	71
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65	65	65	65
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	65	61	60	60	60	60
7	79	69	62	57	78	68	62	57	67	61	57	66	60	57	64	60	56	55	55	55	55
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51	51	51	51
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47	47	47	47
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43	43	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	431068
5°	437383
10°	451107
15°	482030
20°	510752
25°	505164
30°	453403
35°	352878
40°	239061
45°	149248
50°	64572
55°	21634
60°	5427
65°	3677
70°	2272
75°	1477
80°	2202
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.3	6.4
10°-20°	1071.5	20.1
20°-30°	1678.9	31.5
30°-40°	1449.0	27.2
40°-50°	666.3	12.5
50°-60°	113.1	2.1
60°-70°	12.8	0.2
70°-80°	4.5	0.1
80°-90°	0.4	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°	3089.8	57.9
0°-40°	4538.8	85.1
0°-60°	5318.3	99.7
0°-90°	5336.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5336.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3495	
5°	3532	339
15°	3775	1072
25°	3712	1679
35°	2344	1449
45°	856	666
55°	101	113
65°	13	13
75°	3	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3494.8
2.5°	3494.8
5°	3532.5
7.5°	3567.1
10°	3601.7
12.5°	3674.0
15°	3774.8
17.5°	3859.7
20°	3891.1
22.5°	3843.9
25°	3711.8
27.5°	3497.9
30°	3183.4
32.5°	2787.0
35°	2343.5
37.5°	1896.8
40°	1484.7
42.5°	1135.6
45°	855.6
47.5°	600.8
50°	336.5
52.5°	185.6
55°	100.6
57.5°	50.4
60°	22.0
62.5°	15.7
65°	12.6
67.5°	9.4
70°	6.3
72.5°	6.3
75°	3.1
77.5°	3.1
80°	3.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)