

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: P592880

Luminaire Tested: **HC450D010-HM44560850-41WDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592880
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-HM44560850-41WDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6083.0 lumens
Efficiency: N/A
Efficacy: 126.7 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

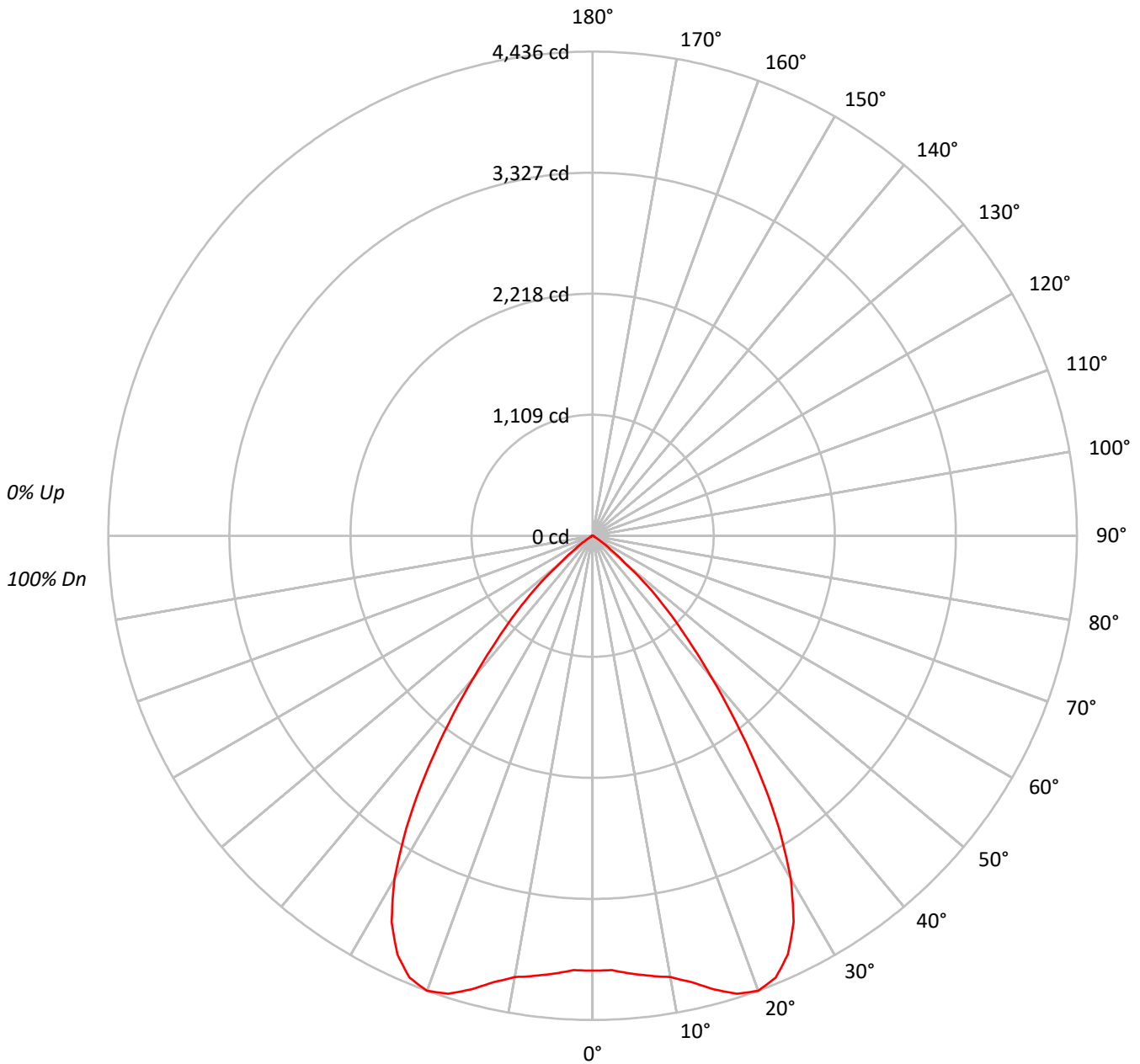
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	491409
5°	498610
10°	514270
15°	549492
20°	582264
25°	575880
30°	516869
35°	402267
40°	272536
45°	170146
50°	73629
55°	24687
60°	6192
65°	4203
70°	2597
75°	1668
80°	2486
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.8	6.4
10°-20°	1221.5	20.1
20°-30°	1914.0	31.5
30°-40°	1651.8	27.2
40°-50°	759.6	12.5
50°-60°	129.0	2.1
60°-70°	14.6	0.2
70°-80°	5.2	0.1
80°-90°	0.5	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°	3522.3	57.9
0°-40°	5174.2	85.1
0°-60°	6062.8	99.7
0°-90°	6083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6083.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3984	
5°	4027	387
15°	4303	1222
25°	4231	1914
35°	2672	1652
45°	975	760
55°	115	129
65°	14	15
75°	4	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3984.0
2.5°	3984.0
5°	4027.0
7.5°	4066.5
10°	4106.0
12.5°	4188.4
15°	4303.1
17.5°	4400.0
20°	4435.9
22.5°	4382.1
25°	4231.4
27.5°	3987.6
30°	3629.0
32.5°	3177.2
35°	2671.5
37.5°	2162.3
40°	1692.6
42.5°	1294.5
45°	975.4
47.5°	684.9
50°	383.7
52.5°	211.5
55°	114.8
57.5°	57.3
60°	25.1
62.5°	17.9
65°	14.4
67.5°	10.7
70°	7.2
72.5°	7.2
75°	3.5
77.5°	3.5
80°	3.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)