

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: P580853

Luminaire Tested: **HC450D010-HM44560830-41WDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC450D010-HM44560830-41WDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4994.8 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

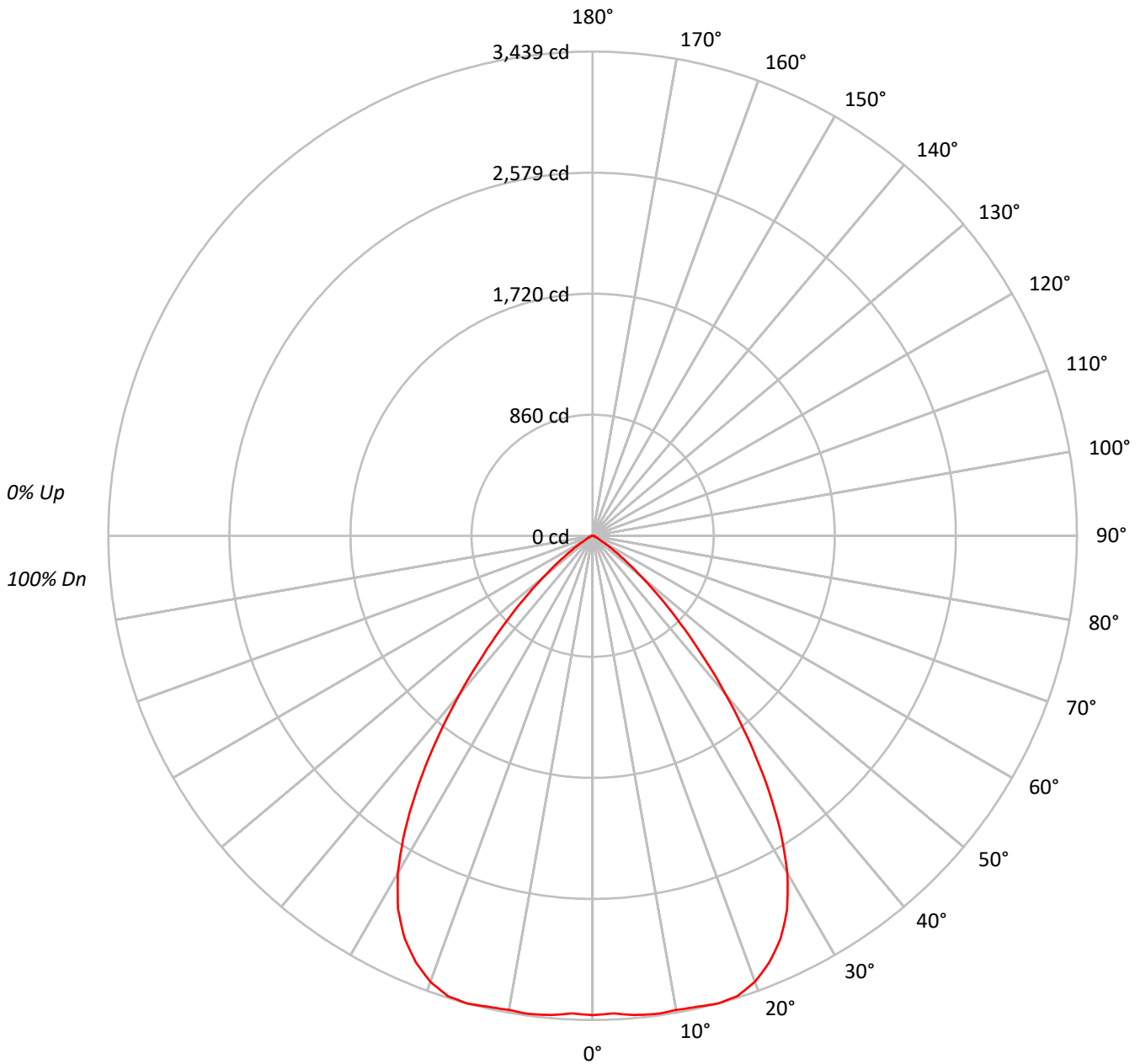
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: HC450D010-HM44560830-41WDH

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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															
1	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92				92															
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84				84															
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76				76															
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69				69															
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63				63															
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58				58															
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53				53															
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49				49															
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45				45															
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42				42															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	419955
5°	423107
10°	428387
15°	439162
20°	442391
25°	429726
30°	393997
35°	324193
40°	236324
45°	153383
50°	86486
55°	41031
60°	16232
65°	10040
70°	6780
75°	4480
80°	2202
85°	4387



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.3	6.5
10°-20°	969.6	19.4
20°-30°	1438.1	28.8
30°-40°	1328.3	26.6
40°-50°	693.5	13.9
50°-60°	190.1	3.8
60°-70°	36.6	0.7
70°-80°	10.3	0.2
80°-90°	2.1	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°	2733.9	54.7
0°-40°	4062.2	81.3
0°-60°	4945.9	99.0
0°-90°	4994.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4994.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3405	
5°	3417	326
15°	3439	970
25°	3158	1438
35°	2153	1328
45°	879	694
55°	191	190
65°	34	37
75°	9	10
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3404.7
2.5°	3395.3
5°	3417.2
7.5°	3426.6
10°	3420.3
12.5°	3426.6
15°	3439.1
17.5°	3426.6
20°	3370.3
22.5°	3279.5
25°	3157.5
27.5°	2991.7
30°	2766.3
32.5°	2481.6
35°	2153.0
37.5°	1808.7
40°	1467.7
42.5°	1154.7
45°	879.3
47.5°	644.6
50°	450.7
52.5°	300.4
55°	190.8
57.5°	112.7
60°	65.8
62.5°	46.9
65°	34.4
67.5°	25.0
70°	18.8
72.5°	12.5
75°	9.4
77.5°	6.3
80°	3.1
82.5°	3.1
85°	3.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)