

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: P580868

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC450D010-HM44560835-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5075.1 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

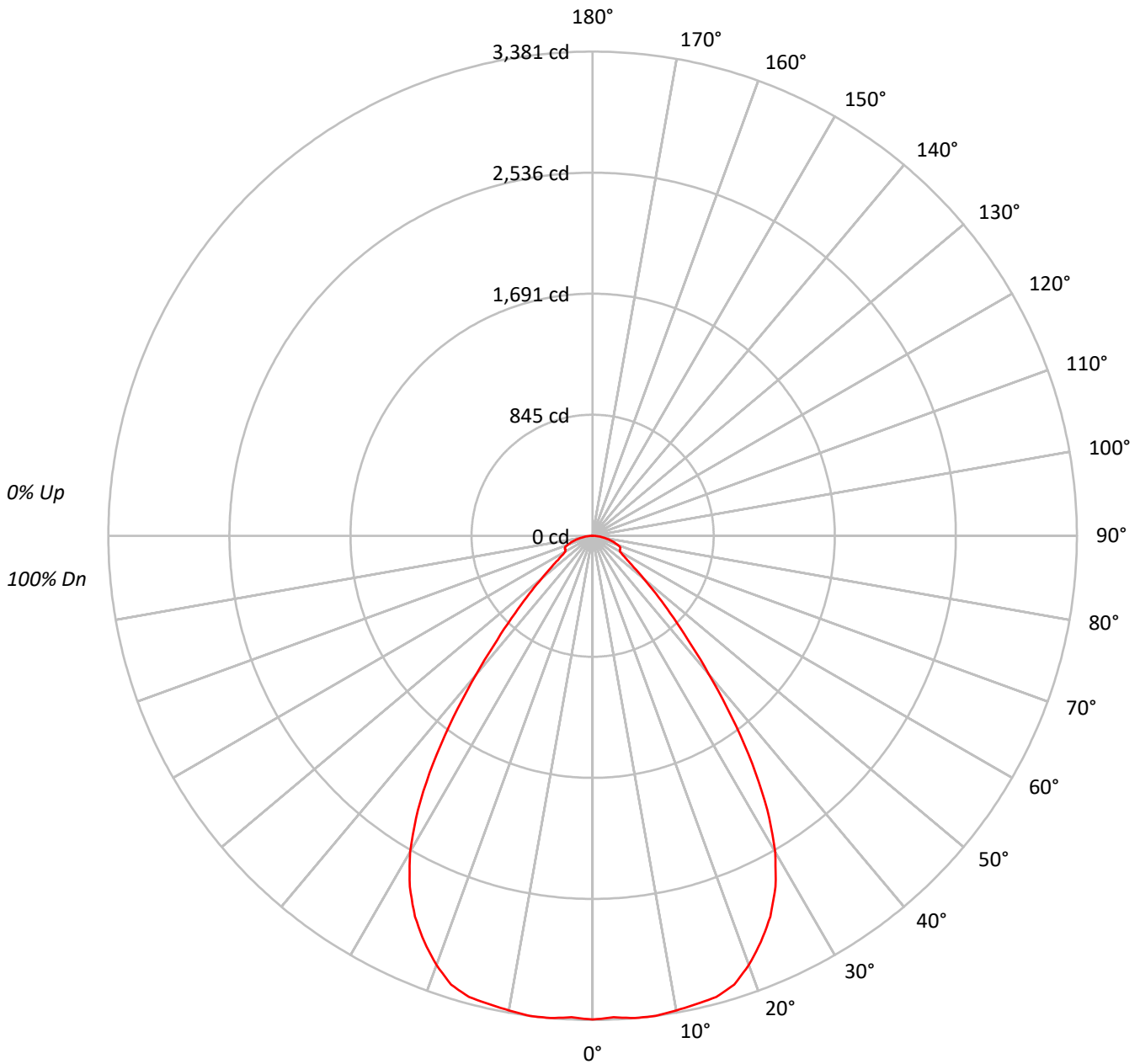
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580868

CATALOG NUMBER: HC450D010-HM44560835-41WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P580868

CATALOG NUMBER: HC450D010-HM44560835-41WDWB

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90		
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80		
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72		
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65		
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49		
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46		
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42		
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	416637
5°	418625
10°	421499
15°	425716
20°	418620
25°	399349
30°	362833
35°	292677
40°	203074
45°	133322
50°	89326
55°	63589
60°	54321
65°	62429
70°	66898
75°	64480
80°	58104
85°	53354



TEST NUMBER: P580868

CATALOG NUMBER: HC450D010-HM44560835-41WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.2	6.3
10°-20°	936.5	18.5
20°-30°	1338.0	26.4
30°-40°	1195.3	23.6
40°-50°	613.1	12.1
50°-60°	278.7	5.5
60°-70°	207.9	4.1
70°-80°	141.4	2.8
80°-90°	41.9	0.8
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°	2596.8	51.2
0°-40°	3792.1	74.7
0°-60°	4683.9	92.3
0°-90°	5075.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5075.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3378	
5°	3381	322
15°	3334	937
25°	2934	1338
35°	1944	1195
45°	764	613
55°	296	279
65°	214	208
75°	135	141
85°	38	42
90°	0	



TEST NUMBER: P580868

CATALOG NUMBER: HC450D010-HM44560835-41WDWB

CANDELA DISTRIBUTION (FULL):

0°	
0°	3377.8
2.5°	3365.3
5°	3381.0
7.5°	3381.0
10°	3365.3
12.5°	3349.6
15°	3333.8
17.5°	3286.6
20°	3189.2
22.5°	3069.6
25°	2934.3
27.5°	2764.5
30°	2547.5
32.5°	2270.8
35°	1943.7
37.5°	1594.5
40°	1261.2
42.5°	984.5
45°	764.3
47.5°	597.6
50°	465.5
52.5°	364.9
55°	295.7
57.5°	248.4
60°	220.2
62.5°	213.9
65°	213.9
67.5°	207.6
70°	185.5
72.5°	160.4
75°	135.3
77.5°	106.9
80°	81.8
82.5°	59.8
85°	37.7
87.5°	15.7
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)