

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: P580903

Luminaire Tested: **HC450D010-HM44560927-41WDBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC450D010-HM44560927-41WDBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3165.9 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

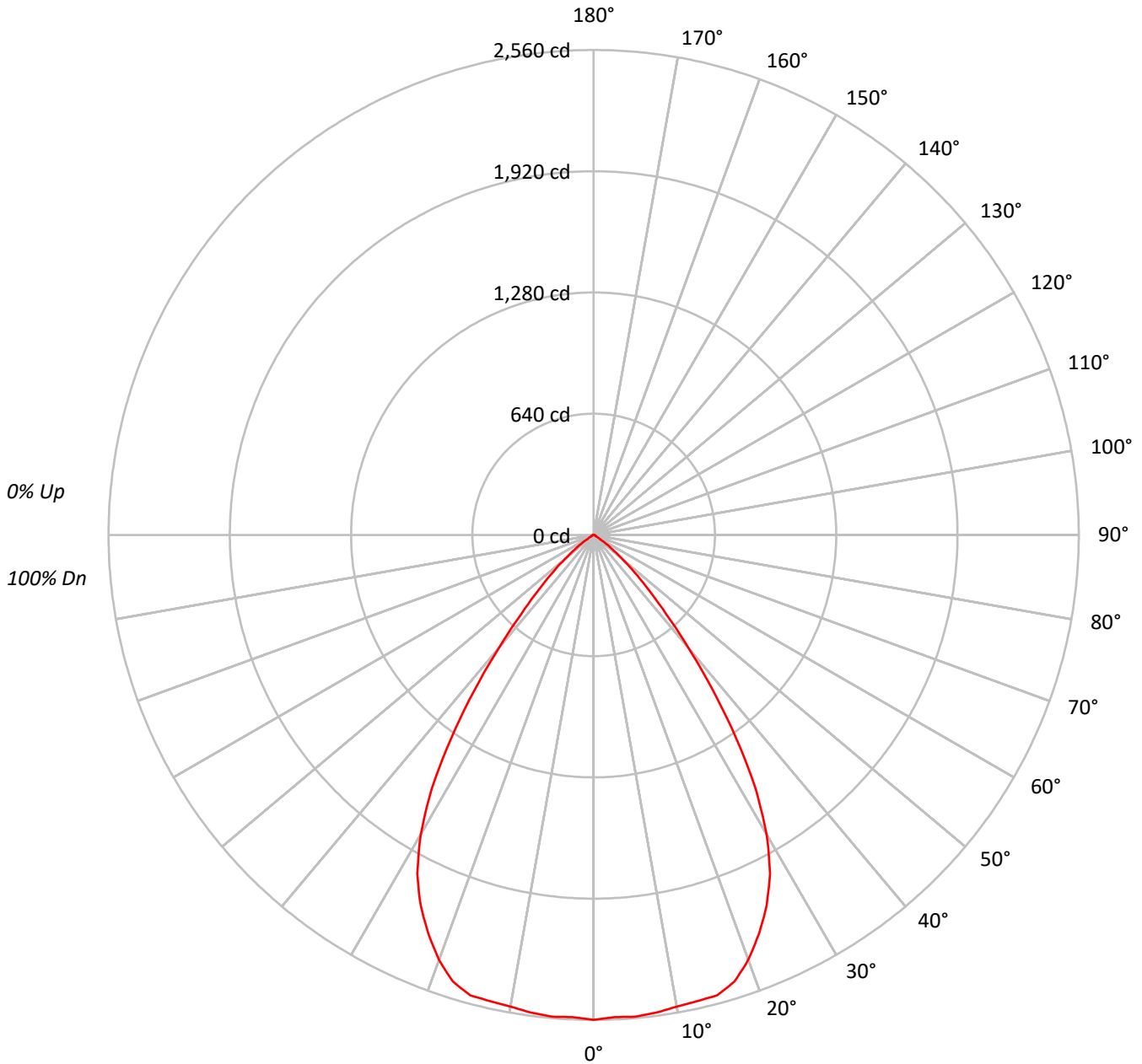
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580903

CATALOG NUMBER: HC450D010-HM44560927-41WDBB

Luminous Intensity Polar Plot





TEST NUMBER: P580903

CATALOG NUMBER: HC450D010-HM44560927-41WDBB

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																			
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93																			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78																			
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72																			
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66																			
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61																			
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56																			
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52																			
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49																			
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	315740
5°	316042
10°	316641
15°	321272
20°	313269
25°	293915
30°	259972
35°	197693
40°	124562
45°	71502
50°	37937
55°	15741
60°	4194
65°	3561
70°	2633
75°	2335
80°	1705
85°	3397



TEST NUMBER: P580903

CATALOG NUMBER: HC450D010-HM44560927-41WDBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.8	7.7
10°-20°	704.5	22.3
20°-30°	983.2	31.1
30°-40°	809.1	25.6
40°-50°	333.3	10.5
50°-60°	75.1	2.4
60°-70°	12.0	0.4
70°-80°	4.5	0.1
80°-90°	1.6	0.1
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°	1930.4	61.0
0°-40°	2739.5	86.5
0°-60°	3147.8	99.4
0°-90°	3165.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3165.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2560	
5°	2552	243
15°	2516	704
25°	2160	983
35°	1313	809
45°	410	333
55°	73	75
65°	12	12
75°	5	4
85°	2	2
90°	0	



TEST NUMBER: P580903

CATALOG NUMBER: HC450D010-HM44560927-41WDBB

CANDELA DISTRIBUTION (FULL):

	0°
0°	2559.8
2.5°	2547.6
5°	2552.5
7.5°	2542.8
10°	2528.1
12.5°	2520.7
15°	2515.9
17.5°	2471.9
20°	2386.6
22.5°	2279.2
25°	2159.6
27.5°	2015.6
30°	1825.3
32.5°	1591.1
35°	1312.9
37.5°	1032.3
40°	773.6
42.5°	563.7
45°	409.9
47.5°	292.8
50°	197.7
52.5°	124.4
55°	73.2
57.5°	36.6
60°	17.0
62.5°	14.6
65°	12.2
67.5°	9.7
70°	7.3
72.5°	4.9
75°	4.9
77.5°	2.4
80°	2.4
82.5°	2.4
85°	2.4
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)