

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: P580849

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580849
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-HM44560830-41WDBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4056.4 lumens
Efficiency: N/A
Efficacy: 84.5 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

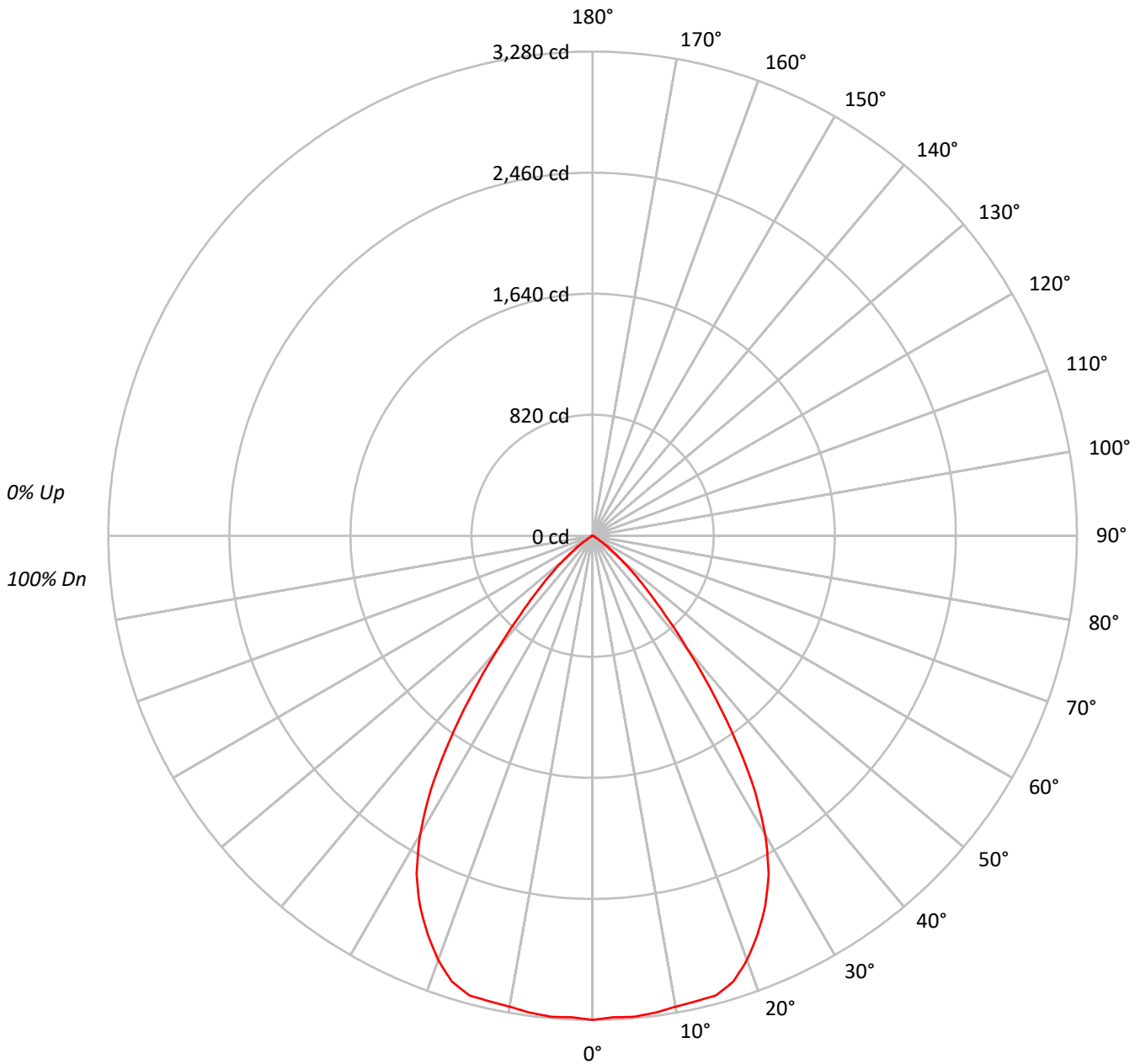
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580849

CATALOG NUMBER: HC450D010-HM44560830-41WDBB

Luminous Intensity Polar Plot





TEST NUMBER: P580849

CATALOG NUMBER: HC450D010-HM44560830-41WDBB

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°	404549
5°	404943
10°	405705
15°	411643
20°	401385
25°	376594
30°	333109
35°	253286
40°	159583
45°	91632
50°	48606
55°	20171
60°	5403
65°	4553
70°	3390
75°	2955
80°	2202
85°	4387



TEST NUMBER: P580849

CATALOG NUMBER: HC450D010-HM44560830-41WDBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.0	7.7
10°-20°	902.6	22.3
20°-30°	1259.7	31.1
30°-40°	1036.6	25.6
40°-50°	427.0	10.5
50°-60°	96.2	2.4
60°-70°	15.4	0.4
70°-80°	5.7	0.1
80°-90°	2.1	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°	2473.4	61.0
0°-40°	3510.0	86.5
0°-60°	4033.2	99.4
0°-90°	4056.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4056.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3280	
5°	3270	311
15°	3224	903
25°	2767	1260
35°	1682	1037
45°	525	427
55°	94	96
65°	16	15
75°	6	6
85°	3	2
90°	0	



TEST NUMBER: P580849

CATALOG NUMBER: HC450D010-HM44560830-41WDBB

CANDELA DISTRIBUTION (FULL):

0°	
0°	3279.8
2.5°	3264.2
5°	3270.5
7.5°	3258.0
10°	3239.2
12.5°	3229.8
15°	3223.6
17.5°	3167.3
20°	3057.9
22.5°	2920.3
25°	2767.1
27.5°	2582.6
30°	2338.8
32.5°	2038.5
35°	1682.1
37.5°	1322.5
40°	991.1
42.5°	722.2
45°	525.3
47.5°	375.2
50°	253.3
52.5°	159.4
55°	93.8
57.5°	46.9
60°	21.9
62.5°	18.7
65°	15.6
67.5°	12.5
70°	9.4
72.5°	6.2
75°	6.2
77.5°	3.1
80°	3.1
82.5°	3.1
85°	3.1
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)