

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: P580705

Luminaire Tested: **HC445D010-HM44560830-41WDBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580705
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: HC445D010-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: 3839.7 lumens
Efficiency: N/A
Efficacy: 87.3 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

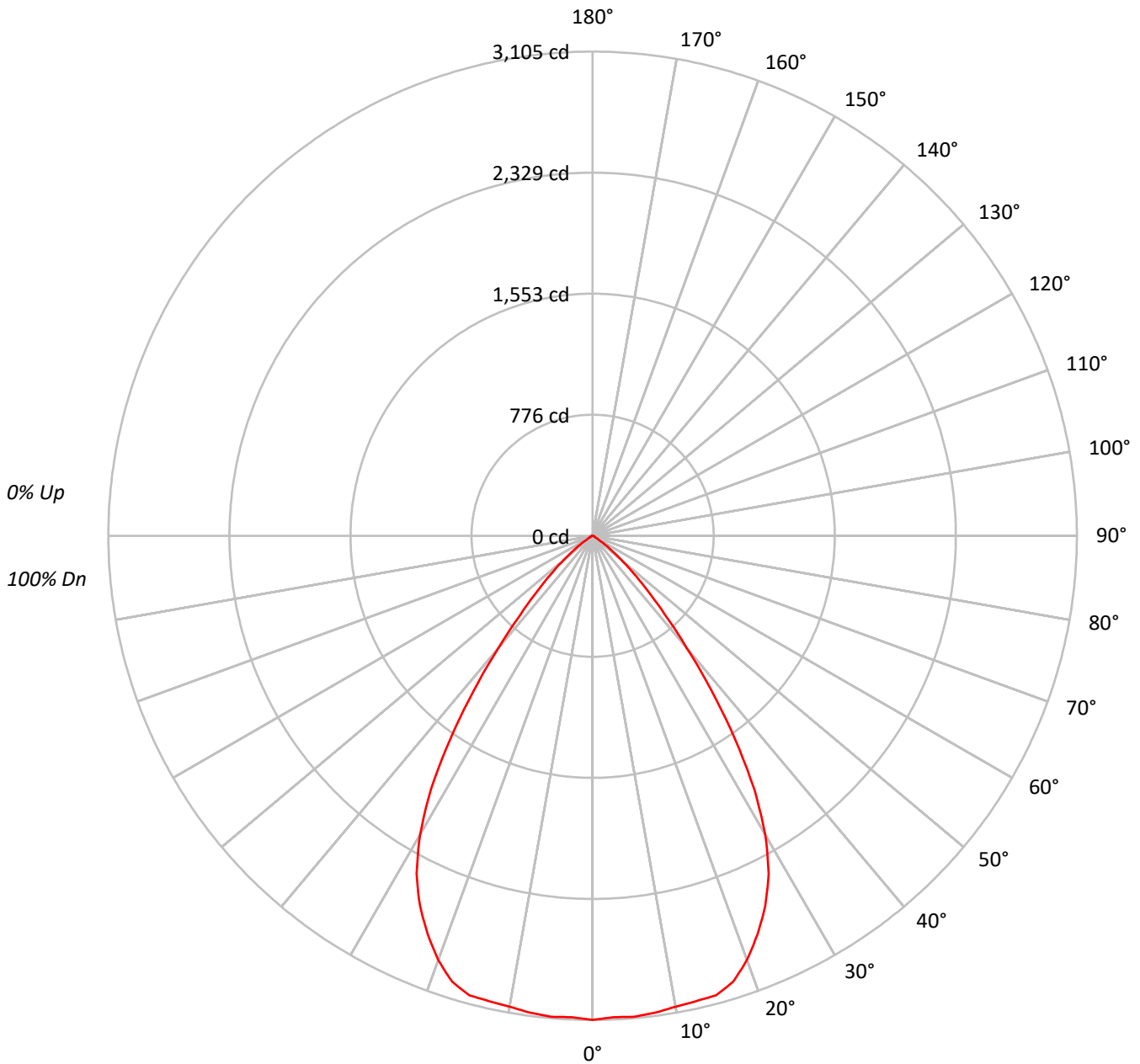
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580705

CATALOG NUMBER: HC445D010-HM44560830-41WDBB

Luminous Intensity Polar Plot





TEST NUMBER: P580705

CATALOG NUMBER: HC445D010-HM44560830-41WDBB

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			
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°	382939
5°	383300
10°	384024
15°	389654
20°	379937
25°	356465
30°	315305
35°	239749
40°	151065
45°	86730
50°	46016
55°	19096
60°	5131
65°	4320
70°	3210
75°	2812
80°	2060
85°	4104



TEST NUMBER: P580705

CATALOG NUMBER: HC445D010-HM44560830-41WDBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.4	7.7
10°-20°	854.4	22.3
20°-30°	1192.4	31.1
30°-40°	981.2	25.6
40°-50°	404.2	10.5
50°-60°	91.1	2.4
60°-70°	14.6	0.4
70°-80°	5.4	0.1
80°-90°	2.0	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°	2341.2	61.0
0°-40°	3322.4	86.5
0°-60°	3817.7	99.4
0°-90°	3839.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3839.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3105	
5°	3096	294
15°	3051	854
25°	2619	1192
35°	1592	981
45°	497	404
55°	89	91
65°	15	15
75°	6	5
85°	3	2
90°	0	



TEST NUMBER: P580705

CATALOG NUMBER: HC445D010-HM44560830-41WDBB

CANDELA DISTRIBUTION (FULL):

0°	
0°	3104.6
2.5°	3089.9
5°	3095.7
7.5°	3083.9
10°	3066.1
12.5°	3057.2
15°	3051.4
17.5°	2998.1
20°	2894.5
22.5°	2764.3
25°	2619.2
27.5°	2444.6
30°	2213.8
32.5°	1929.6
35°	1592.2
37.5°	1251.9
40°	938.2
42.5°	683.6
45°	497.2
47.5°	355.1
50°	239.8
52.5°	150.9
55°	88.8
57.5°	44.4
60°	20.8
62.5°	17.7
65°	14.8
67.5°	11.9
70°	8.9
72.5°	5.9
75°	5.9
77.5°	2.9
80°	2.9
82.5°	2.9
85°	2.9
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)