

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: P580724

Luminaire Tested: **HC445D010-HM44560835-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580724
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: HC445D010-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: 4803.8 lumens
Efficiency: N/A
Efficacy: 109.2 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

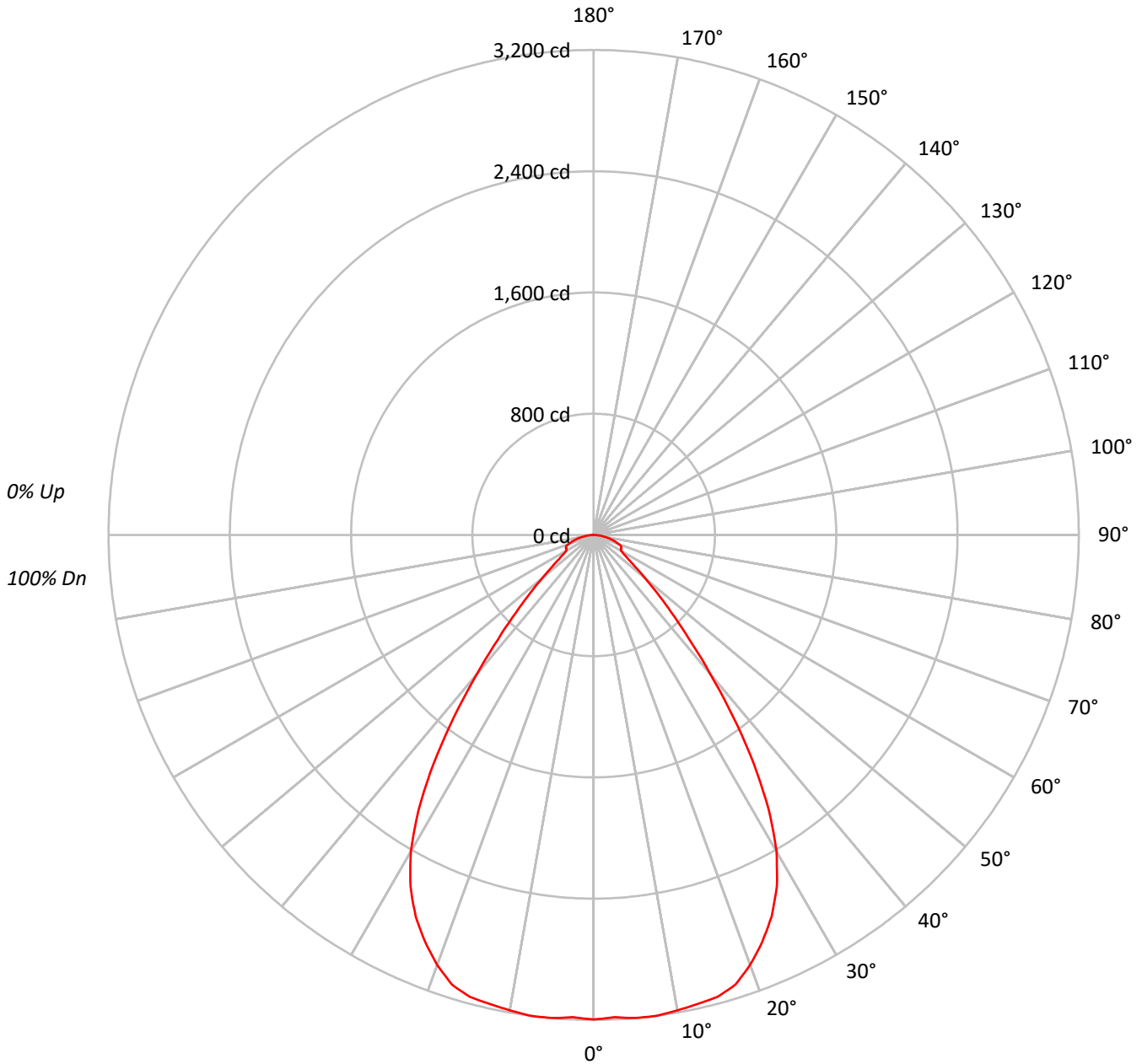
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	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°	394385
5°	396251
10°	398979
15°	402960
20°	396240
25°	378023
30°	343449
35°	277047
40°	192221
45°	126205
50°	84547
55°	60170
60°	51410
65°	59073
70°	63328
75°	61001
80°	54979
85°	50524



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.0	6.3
10°-20°	886.5	18.5
20°-30°	1266.6	26.4
30°-40°	1131.4	23.6
40°-50°	580.3	12.1
50°-60°	263.8	5.5
60°-70°	196.7	4.1
70°-80°	133.8	2.8
80°-90°	39.7	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°	2458.0	51.2
0°-40°	3589.5	74.7
0°-60°	4433.6	92.3
0°-90°	4803.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4803.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3197	
5°	3200	305
15°	3156	886
25°	2778	1267
35°	1840	1131
45°	724	580
55°	280	264
65°	202	197
75°	128	134
85°	36	40
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3197.4
2.5°	3185.5
5°	3200.3
7.5°	3200.3
10°	3185.5
12.5°	3170.5
15°	3155.6
17.5°	3111.0
20°	3018.7
22.5°	2905.6
25°	2777.6
27.5°	2616.8
30°	2411.4
32.5°	2149.4
35°	1839.9
37.5°	1509.3
40°	1193.8
42.5°	931.8
45°	723.5
47.5°	565.6
50°	440.6
52.5°	345.4
55°	279.8
57.5°	235.2
60°	208.4
62.5°	202.4
65°	202.4
67.5°	196.5
70°	175.6
72.5°	151.8
75°	128.0
77.5°	101.2
80°	77.4
82.5°	56.5
85°	35.7
87.5°	14.9
90°	0.0



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— 0°-180°







(END OF REPORT)