

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: P584673

Luminaire Tested: **HC845D010-HM82555830-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC845D010-HM82555830-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5296.6 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

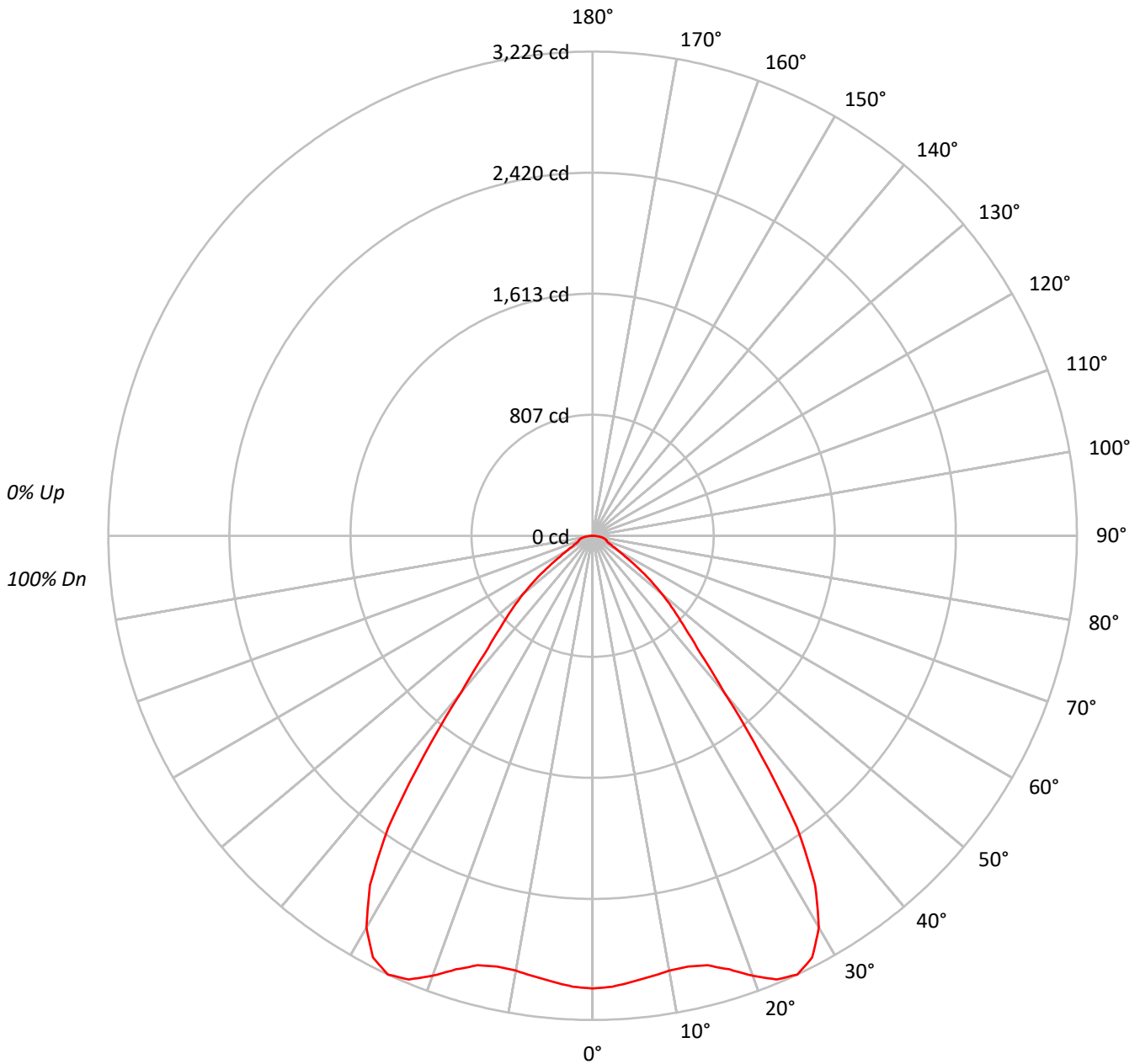
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	93021
5°	92383
10°	92139
15°	94556
20°	102367
25°	109748
30°	107294
35°	89341
40°	54890
45°	38005
50°	29004
55°	19021
60°	11903
65°	8916
70°	8989
75°	10342
80°	11418
85°	10260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.6	5.4
10°-20°	850.3	16.1
20°-30°	1463.7	27.6
30°-40°	1418.1	26.8
40°-50°	698.5	13.2
50°-60°	329.6	6.2
60°-70°	129.9	2.5
70°-80°	89.6	1.7
80°-90°	33.3	0.6
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°	2597.6	49.0
0°-40°	4015.7	75.8
0°-60°	5043.8	95.2
0°-90°	5296.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5296.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3017	
5°	2984	284
15°	2962	850
25°	3226	1464
35°	2373	1418
45°	872	698
55°	354	330
65°	122	130
75°	87	90
85°	29	33
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3016.6
2.5°	3007.0
5°	2984.5
7.5°	2961.9
10°	2942.6
12.5°	2939.4
15°	2961.9
17.5°	3029.4
20°	3119.5
22.5°	3199.9
25°	3225.6
27.5°	3167.7
30°	3013.3
32.5°	2759.2
35°	2373.3
37.5°	1842.8
40°	1363.6
42.5°	1058.0
45°	871.5
47.5°	733.2
50°	604.6
52.5°	476.0
55°	353.8
57.5°	257.2
60°	193.0
62.5°	151.2
65°	122.2
67.5°	106.2
70°	99.7
72.5°	93.3
75°	86.8
77.5°	77.2
80°	64.3
82.5°	48.2
85°	29.0
87.5°	12.9
90°	0.0



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— 0°-180°







(END OF REPORT)