

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: P584678

Luminaire Tested: **HC845D010-HM82555835-81MDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC845D010-HM82555835-81MDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5034.8 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

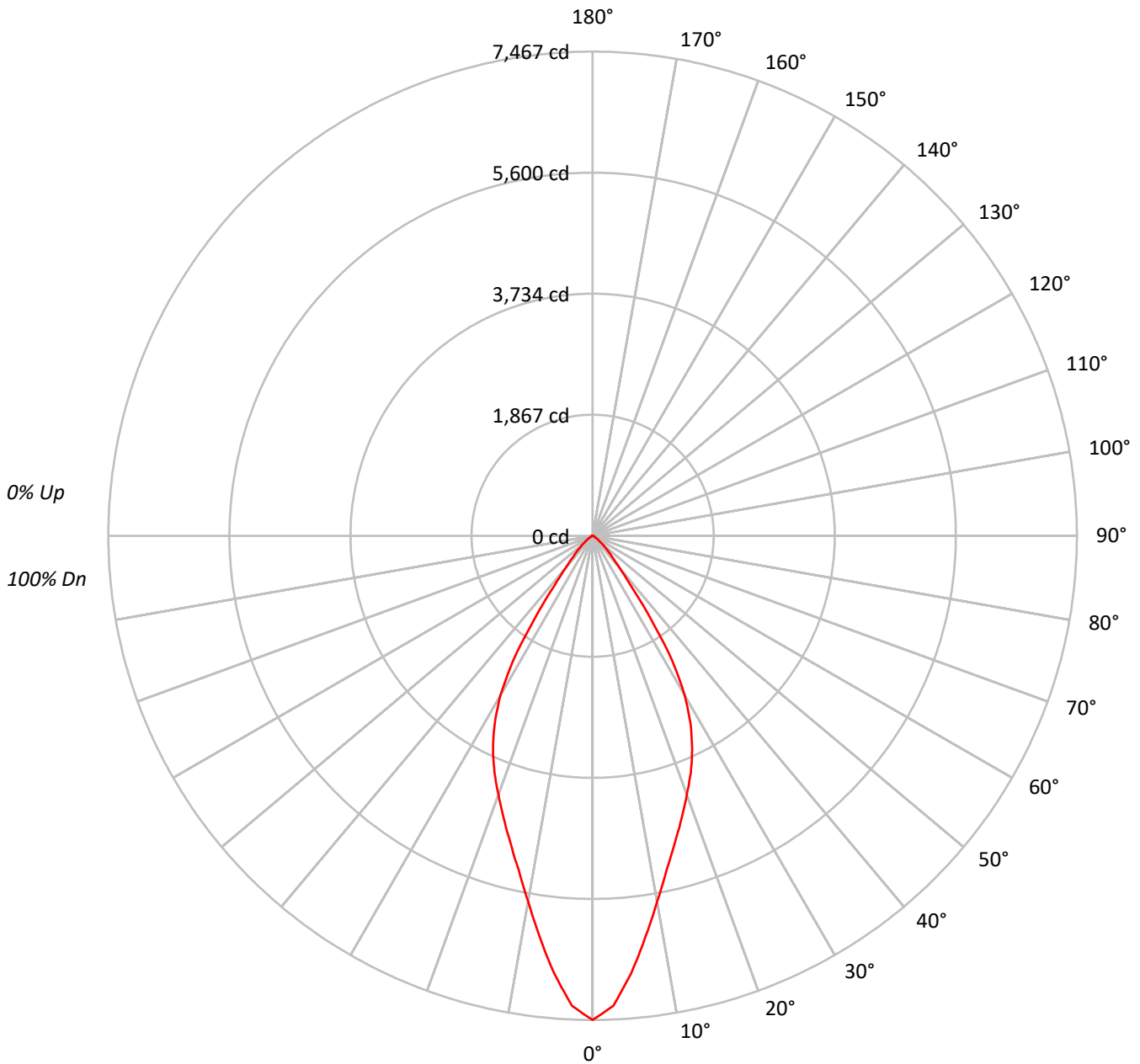
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76			
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71			
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58			
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	63	59	56	55			
10	73	63	57	54	72	63	57	53	62	57	53	61	56	53	60	56	53	52			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	230261
5°	209832
10°	179280
15°	156348
20°	139350
25°	123610
30°	101209
35°	58119
40°	25791
45°	15015
50°	8664
55°	4946
60°	2732
65°	1737
70°	1226
75°	810
80°	604
85°	1203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.6	12.2
10°-20°	1376.6	27.3
20°-30°	1647.8	32.7
30°-40°	996.9	19.8
40°-50°	279.4	5.5
50°-60°	86.7	1.7
60°-70°	24.7	0.5
70°-80°	6.7	0.1
80°-90°	2.3	0.0
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°	3638.1	72.3
0°-40°	4635.0	92.1
0°-60°	5001.1	99.3
0°-90°	5034.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5034.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7467	
5°	6779	614
15°	4898	1377
25°	3633	1648
35°	1544	997
45°	344	279
55°	92	87
65°	24	25
75°	7	7
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7467.2
2.5°	7255.9
5°	6778.8
7.5°	6240.2
10°	5725.6
12.5°	5275.8
15°	4897.5
17.5°	4563.4
20°	4246.5
22.5°	3953.4
25°	3633.0
27.5°	3271.8
30°	2842.4
32.5°	2286.9
35°	1543.9
37.5°	961.0
40°	640.7
42.5°	460.1
45°	344.3
47.5°	252.2
50°	180.6
52.5°	126.1
55°	92.0
57.5°	61.3
60°	44.3
62.5°	30.6
65°	23.8
67.5°	17.0
70°	13.6
72.5°	6.8
75°	6.8
77.5°	3.4
80°	3.4
82.5°	3.4
85°	3.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)