

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: P584746

Luminaire Tested: **HC845D010-HM82555935-81MDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584746
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-HM82555935-81MDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4695.4 lumens
Efficiency: N/A
Efficacy: 106.7 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

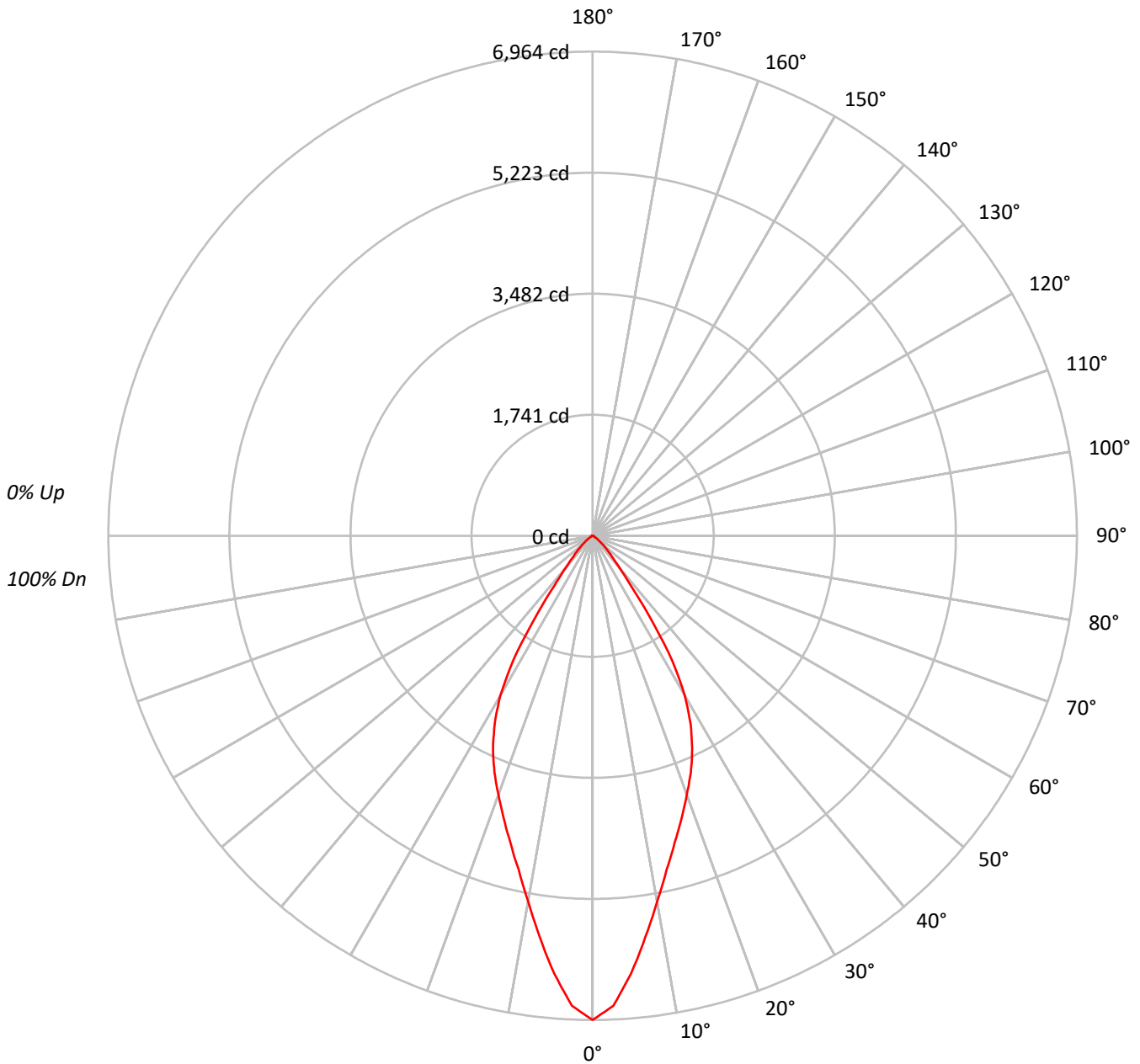
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	56	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°	214732
5°	195676
10°	167190
15°	145804
20°	129955
25°	115274
30°	94379
35°	54196
40°	24052
45°	14003
50°	8079
55°	4618
60°	2547
65°	1627
70°	1145
75°	751
80°	568
85°	1132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.2	12.2
10°-20°	1283.8	27.3
20°-30°	1536.7	32.7
30°-40°	929.6	19.8
40°-50°	260.6	5.5
50°-60°	80.9	1.7
60°-70°	23.1	0.5
70°-80°	6.2	0.1
80°-90°	2.2	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°	3392.7	72.3
0°-40°	4322.4	92.1
0°-60°	4663.9	99.3
0°-90°	4695.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4695.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6964	
5°	6322	572
15°	4567	1284
25°	3388	1537
35°	1440	930
45°	321	261
55°	86	81
65°	22	23
75°	6	6
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6963.6
2.5°	6766.6
5°	6321.5
7.5°	5819.4
10°	5339.5
12.5°	4919.9
15°	4567.2
17.5°	4255.6
20°	3960.2
22.5°	3686.7
25°	3388.0
27.5°	3051.1
30°	2650.6
32.5°	2132.6
35°	1439.7
37.5°	896.3
40°	597.5
42.5°	429.1
45°	321.1
47.5°	235.2
50°	168.4
52.5°	117.7
55°	85.9
57.5°	57.2
60°	41.3
62.5°	28.6
65°	22.3
67.5°	15.8
70°	12.7
72.5°	6.3
75°	6.3
77.5°	3.2
80°	3.2
82.5°	3.2
85°	3.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)