

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: P593755

Luminaire Tested: **HC845D010-HM82555850-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593755
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-HM82555850-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6080.8 lumens
Efficiency: N/A
Efficacy: 138.2 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

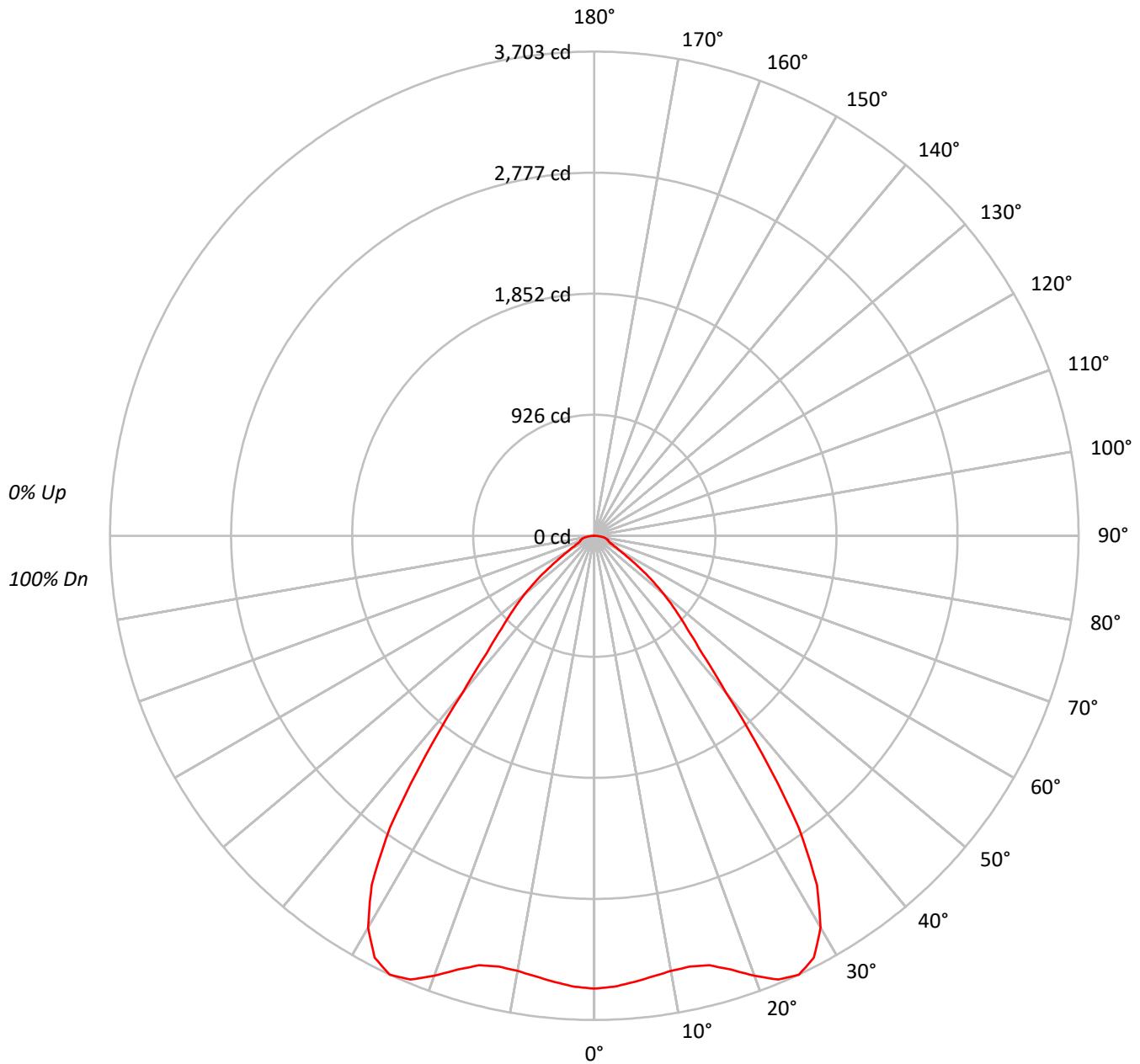
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	108	105	103	109	106	103	101	102	100	98		98	97	95		95
2	105	99	94	89	102	97	92	88	93	90	86		90	87	84		88
3	98	90	84	79	96	88	83	78	86	81	77		83	79	76		81
4	92	82	75	70	90	81	75	70	79	73	69		77	72	68		75
5	86	75	68	63	84	74	68	63	73	67	62		71	66	62		69
6	80	69	62	57	79	69	62	57	67	61	56		65	60	56		64
7	75	64	57	52	74	63	57	52	62	56	51		61	55	51		59
8	71	59	52	47	69	59	52	47	58	51	47		56	51	47		55
9	67	55	48	43	65	55	48	43	54	47	43		53	47	43		52
10	63	51	45	40	62	51	44	40	50	44	40		49	44	40		48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	106792
5°	106058
10°	105778
15°	108555
20°	117525
25°	125998
30°	123181
35°	102573
40°	63018
45°	43635
50°	33298
55°	21833
60°	13667
65°	10237
70°	10323
75°	11878
80°	13123
85°	11746



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.5	5.4
10°-20°	976.1	16.1
20°-30°	1680.5	27.6
30°-40°	1628.1	26.8
40°-50°	801.9	13.2
50°-60°	378.4	6.2
60°-70°	149.2	2.5
70°-80°	102.9	1.7
80°-90°	38.2	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°	2982.1	49.0
0°-40°	4610.2	75.8
0°-60°	5790.6	95.2
0°-90°	6080.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6080.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3463	
5°	3426	326
15°	3400	976
25°	3703	1680
35°	2725	1628
45°	1001	802
55°	406	378
65°	140	149
75°	100	103
85°	33	38
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3463.2
2.5°	3452.1
5°	3426.3
7.5°	3400.4
10°	3378.2
12.5°	3374.6
15°	3400.4
17.5°	3477.9
20°	3581.4
22.5°	3673.6
25°	3703.2
27.5°	3636.8
30°	3459.5
32.5°	3167.8
35°	2724.8
37.5°	2115.6
40°	1565.5
42.5°	1214.8
45°	1000.6
47.5°	841.7
50°	694.1
52.5°	546.4
55°	406.1
57.5°	295.4
60°	221.6
62.5°	173.5
65°	140.3
67.5°	121.9
70°	114.5
72.5°	107.1
75°	99.7
77.5°	88.6
80°	73.9
82.5°	55.4
85°	33.2
87.5°	14.8
90°	0.0



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— 0°-180°







(END OF REPORT)