

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: P593763

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC845D010-HM82555850-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4943.6 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

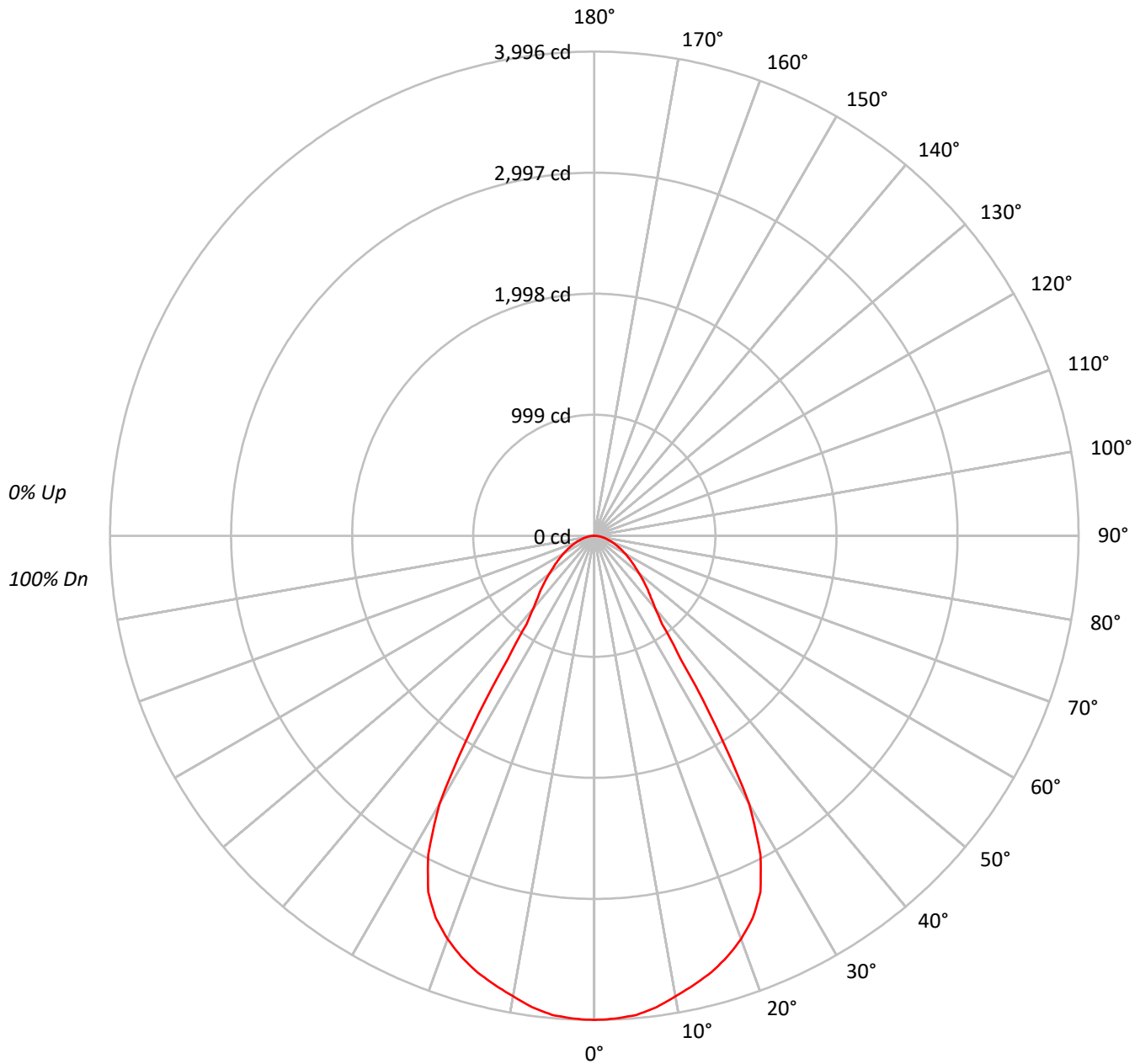
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	109	106	103	101	102	100	98		98	96	95		95
2	105	99	94	90	102	97	92	88	94	90	87		91	87	85		88
3	98	90	84	79	96	89	83	79	86	81	77		84	80	76		81
4	92	83	76	71	90	82	76	71	80	74	70		77	73	69		75
5	87	77	70	65	85	76	69	64	74	68	64		72	67	63		70
6	82	71	64	59	80	70	64	59	69	63	58		67	62	58		66
7	77	66	59	54	76	66	59	54	64	58	54		63	58	54		62
8	73	62	55	50	71	61	55	50	60	54	50		59	54	50		58
9	69	58	51	47	68	57	51	47	56	51	46		55	50	46		55
10	65	55	48	44	64	54	48	44	53	47	43		52	47	43		52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	123225
5°	122891
10°	120846
15°	119080
20°	116225
25°	110327
30°	91000
35°	46852
40°	31366
45°	26898
50°	23214
55°	20252
60°	17990
65°	16169
70°	14651
75°	13201
80°	11809
85°	11746



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.4	7.6
10°-20°	1049.5	21.2
20°-30°	1454.1	29.4
30°-40°	873.4	17.7
40°-50°	478.2	9.7
50°-60°	339.7	6.9
60°-70°	220.5	4.5
70°-80°	117.8	2.4
80°-90°	35.2	0.7
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°	2878.9	58.2
0°-40°	3752.3	75.9
0°-60°	4570.1	92.4
0°-90°	4943.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4943.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3996	
5°	3970	375
15°	3730	1049
25°	3243	1454
35°	1245	873
45°	617	478
55°	377	340
65°	222	221
75°	111	118
85°	33	35
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3996.1
2.5°	3988.7
5°	3970.1
7.5°	3925.9
10°	3859.4
12.5°	3796.6
15°	3730.1
17.5°	3645.2
20°	3541.8
22.5°	3416.2
25°	3242.6
27.5°	2969.3
30°	2555.7
32.5°	1872.5
35°	1244.6
37.5°	919.6
40°	779.2
42.5°	690.7
45°	616.8
47.5°	546.6
50°	483.9
52.5°	424.7
55°	376.7
57.5°	332.4
60°	291.7
62.5°	254.8
65°	221.6
67.5°	188.4
70°	162.5
72.5°	132.9
75°	110.8
77.5°	88.7
80°	66.5
82.5°	48.0
85°	33.2
87.5°	14.8
90°	0.0



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— 0°-180°







(END OF REPORT)