

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: P584774

Luminaire Tested: **HC845D010-HM82555940-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC845D010-HM82555940-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5397.3 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

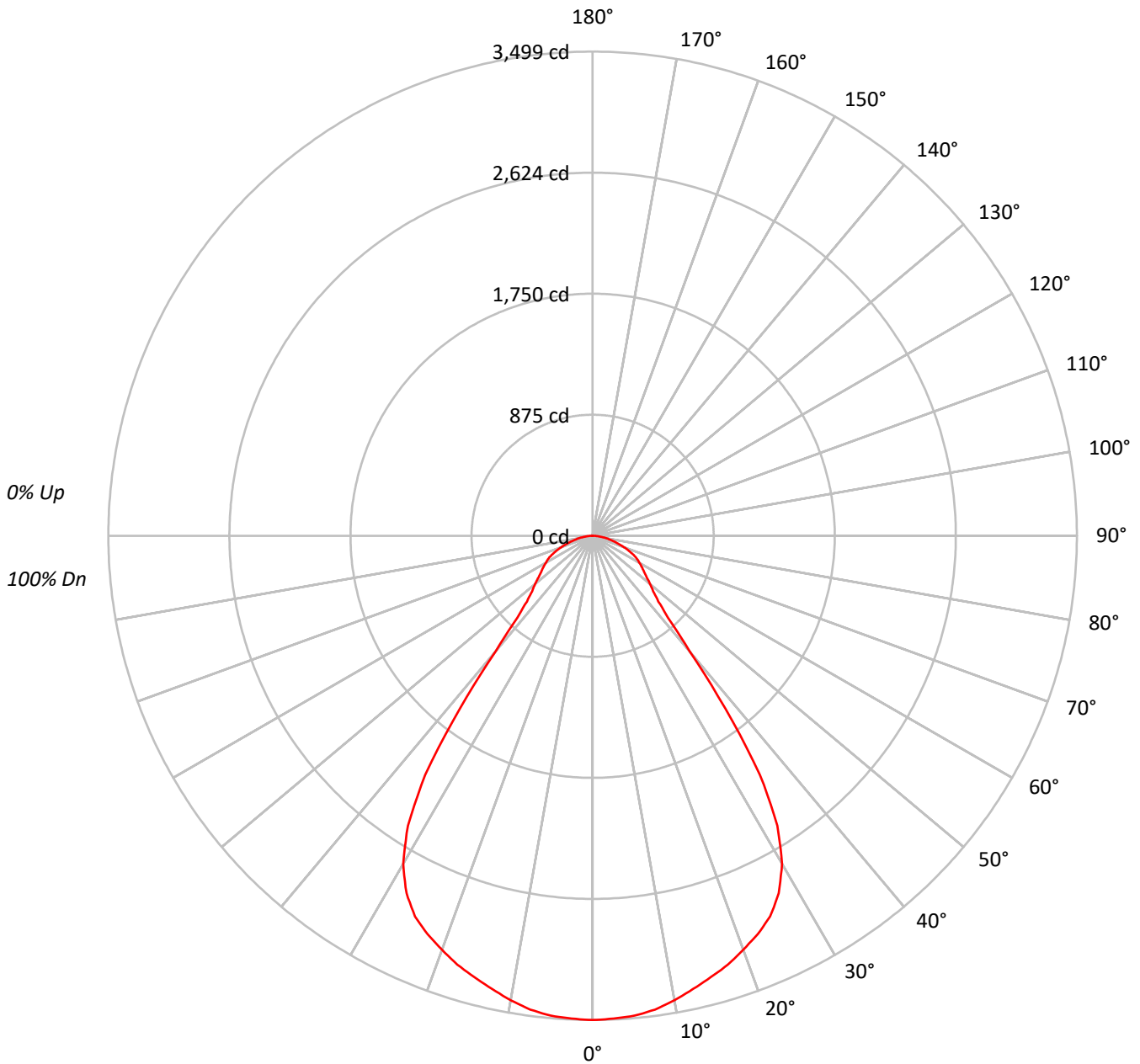
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	107906
5°	107773
10°	106708
15°	105433
20°	104454
25°	103280
30°	97448
35°	79354
40°	43841
45°	29266
50°	25958
55°	24365
60°	24052
65°	23845
70°	21539
75°	19253
80°	16852
85°	14895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.0	6.1
10°-20°	932.5	17.3
20°-30°	1385.6	25.7
30°-40°	1247.8	23.1
40°-50°	553.2	10.2
50°-60°	409.7	7.6
60°-70°	318.6	5.9
70°-80°	172.7	3.2
80°-90°	47.3	0.9
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°	2648.1	49.1
0°-40°	3895.9	72.2
0°-60°	4858.7	90.0
0°-90°	5397.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5397.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3499	
5°	3482	330
15°	3303	932
25°	3036	1386
35°	2108	1248
45°	671	553
55°	453	410
65°	327	319
75°	162	173
85°	42	47
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3499.3
2.5°	3492.3
5°	3481.7
7.5°	3453.7
10°	3407.9
12.5°	3355.2
15°	3302.6
17.5°	3249.8
20°	3183.1
22.5°	3116.3
25°	3035.5
27.5°	2912.6
30°	2736.8
32.5°	2483.9
35°	2108.0
37.5°	1573.9
40°	1089.1
42.5°	804.6
45°	671.1
47.5°	593.8
50°	541.1
52.5°	491.8
55°	453.2
57.5°	421.6
60°	390.0
62.5°	361.9
65°	326.8
67.5°	284.6
70°	238.9
72.5°	200.2
75°	161.6
77.5°	126.4
80°	94.9
82.5°	66.7
85°	42.1
87.5°	17.6
90°	0.0



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— 0°-180°







(END OF REPORT)