

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: P584747

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC845D010-HM82555935-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4708.2 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

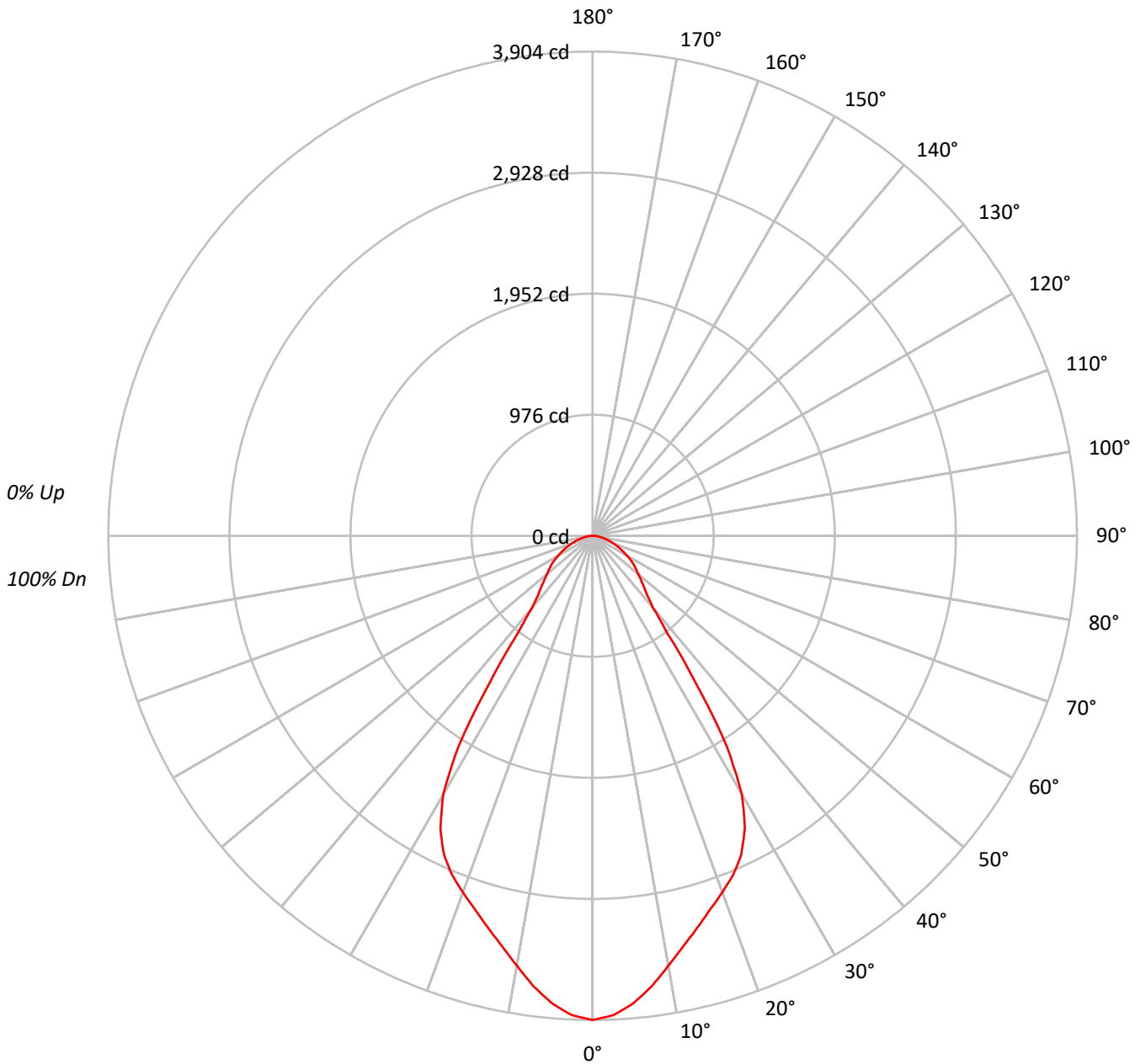
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	120385
5°	117106
10°	110200
15°	104334
20°	100362
25°	96486
30°	85691
35°	54573
40°	30456
45°	25511
50°	23032
55°	21704
60°	19803
65°	17862
70°	15769
75°	14023
80°	12413
85°	11251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.7	7.5
10°-20°	921.7	19.6
20°-30°	1285.8	27.3
30°-40°	925.2	19.7
40°-50°	458.5	9.7
50°-60°	358.8	7.6
60°-70°	242.9	5.2
70°-80°	126.2	2.7
80°-90°	36.4	0.8
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°	2560.2	54.4
0°-40°	3485.5	74.0
0°-60°	4302.7	91.4
0°-90°	4708.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4708.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3904	
5°	3783	353
15°	3268	922
25°	2836	1286
35°	1450	925
45°	585	459
55°	404	359
65°	245	243
75°	118	126
85°	32	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3904.0
2.5°	3869.0
5°	3783.2
7.5°	3662.5
10°	3519.4
12.5°	3385.9
15°	3268.2
17.5°	3156.9
20°	3058.4
22.5°	2959.8
25°	2835.8
27.5°	2657.8
30°	2406.6
32.5°	2012.4
35°	1449.7
37.5°	988.7
40°	756.6
42.5°	651.7
45°	585.0
47.5°	527.7
50°	480.1
52.5°	438.7
55°	403.7
57.5°	362.5
60°	321.1
62.5°	279.8
65°	244.8
67.5°	209.8
70°	174.9
72.5°	146.3
75°	117.7
77.5°	92.2
80°	69.9
82.5°	50.9
85°	31.8
87.5°	16.0
90°	0.0



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— 0°-180°







(END OF REPORT)