

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: P584679

Luminaire Tested: **HC845D010-HM82555835-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584679
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-HM82555835-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5048.6 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

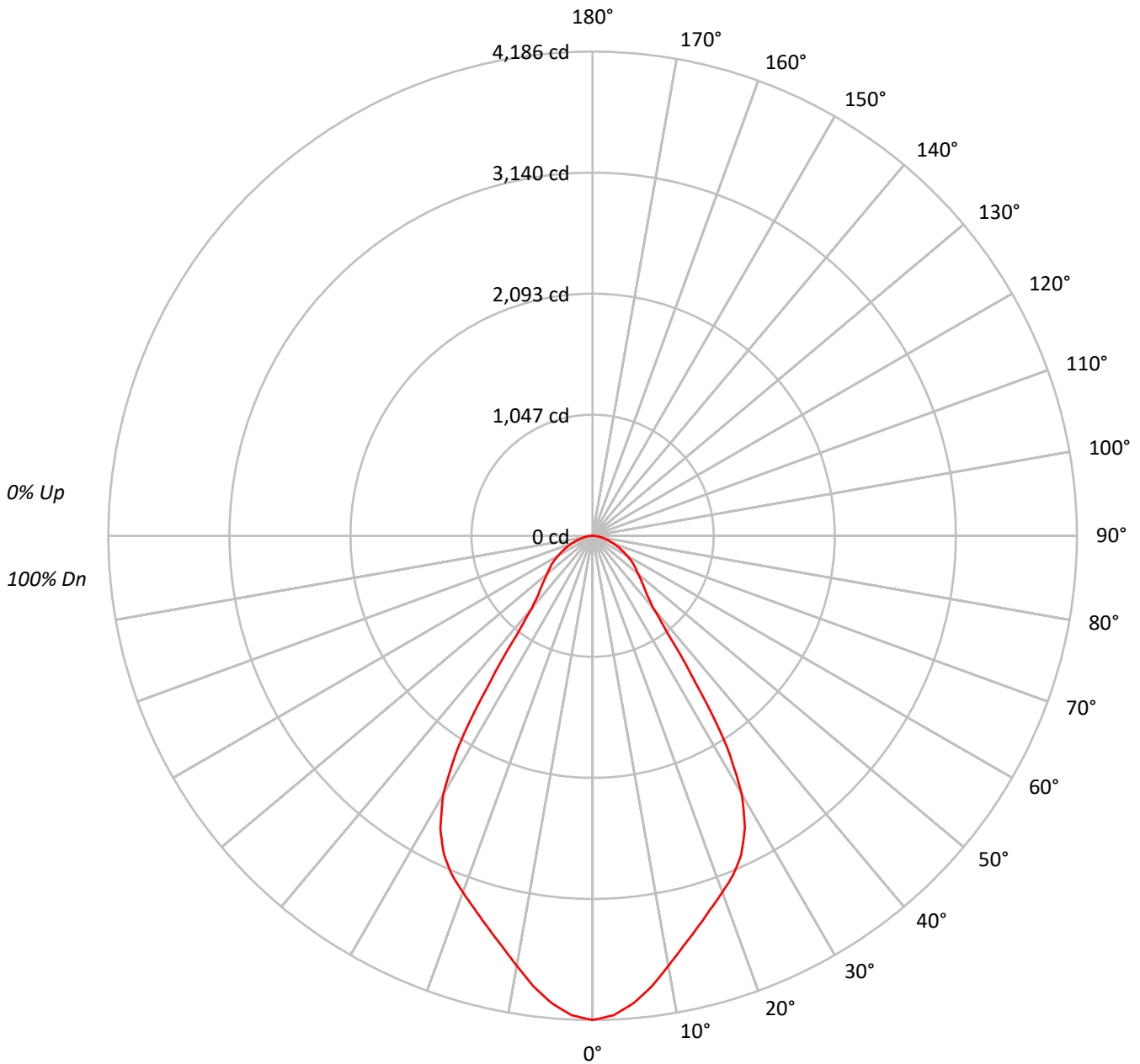
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	129090
5°	125575
10°	118168
15°	111881
20°	107621
25°	103464
30°	91890
35°	58522
40°	32662
45°	27356
50°	24696
55°	23279
60°	21234
65°	19153
70°	16896
75°	15024
80°	13318
85°	12065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.2	7.5
10°-20°	988.4	19.6
20°-30°	1378.8	27.3
30°-40°	992.2	19.7
40°-50°	491.7	9.7
50°-60°	384.7	7.6
60°-70°	260.4	5.2
70°-80°	135.2	2.7
80°-90°	38.9	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°	2745.4	54.4
0°-40°	3737.6	74.0
0°-60°	4614.0	91.4
0°-90°	5048.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5048.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4186	
5°	4057	378
15°	3505	988
25°	3041	1379
35°	1555	992
45°	627	492
55°	433	385
65°	262	260
75°	126	135
85°	34	39
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4186.3
2.5°	4148.9
5°	4056.8
7.5°	3927.3
10°	3773.9
12.5°	3630.7
15°	3504.6
17.5°	3385.3
20°	3279.6
22.5°	3173.9
25°	3040.9
27.5°	2850.0
30°	2580.7
32.5°	2158.0
35°	1554.6
37.5°	1060.3
40°	811.4
42.5°	698.9
45°	627.3
47.5°	565.9
50°	514.8
52.5°	470.5
55°	433.0
57.5°	388.6
60°	344.3
62.5°	300.1
65°	262.5
67.5°	225.0
70°	187.4
72.5°	156.8
75°	126.1
77.5°	98.9
80°	75.0
82.5°	54.5
85°	34.1
87.5°	17.0
90°	0.0



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— 0°-180°







(END OF REPORT)