

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: P584554

Luminaire Tested: **HC840D010-HM82555835-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584554
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: HC840D010-HM82555835-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5274.2 lumens
Efficiency: N/A
Efficacy: 128.6 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

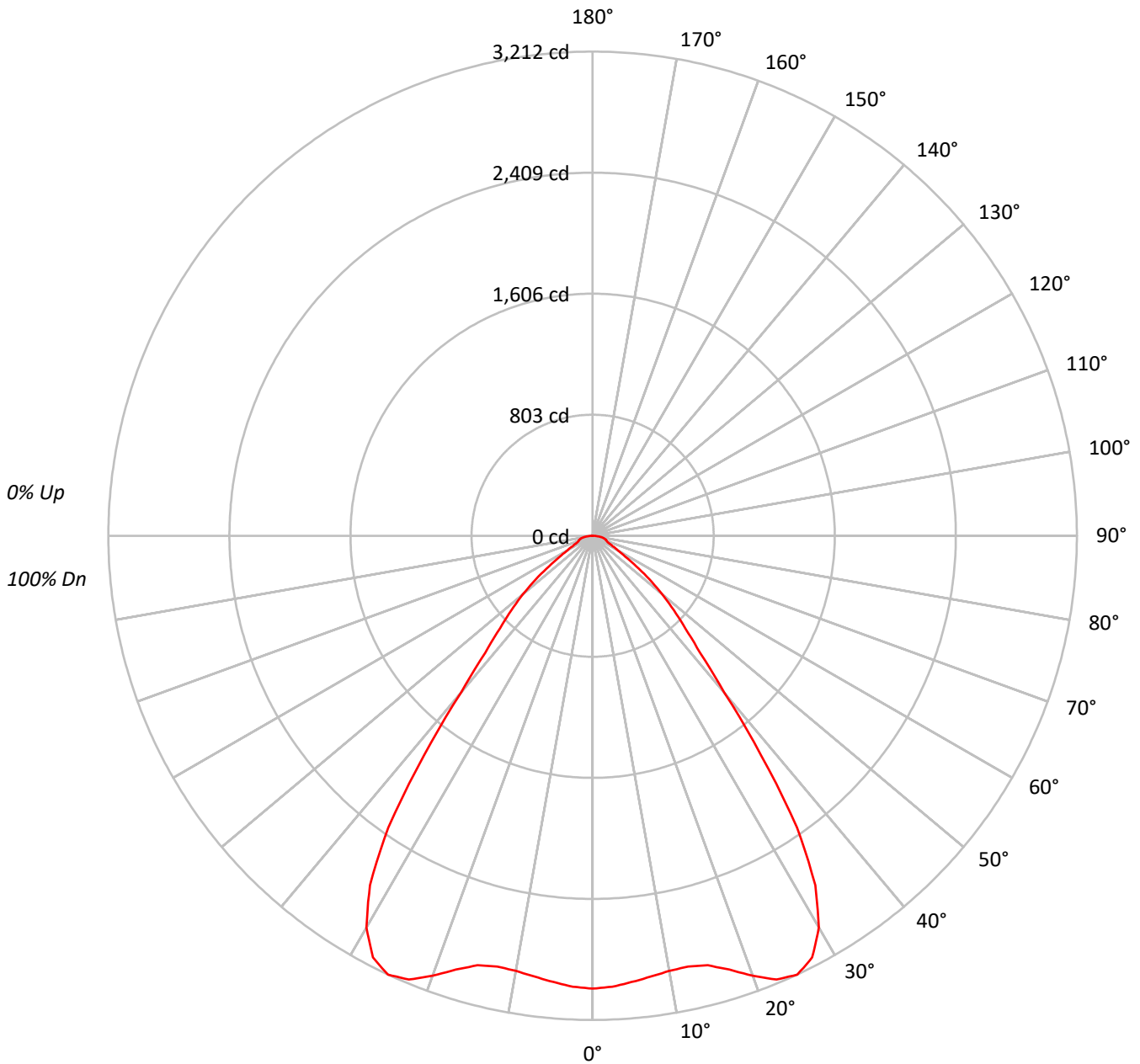
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90		
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59		
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49		
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45		
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41		
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	92626
5°	91989
10°	91754
15°	94157
20°	101938
25°	109285
30°	106845
35°	88965
40°	54657
45°	37848
50°	28880
55°	18935
60°	11853
65°	8880
70°	8944
75°	10306
80°	11365
85°	10190



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.4	5.4
10°-20°	846.7	16.1
20°-30°	1457.5	27.6
30°-40°	1412.1	26.8
40°-50°	695.6	13.2
50°-60°	328.2	6.2
60°-70°	129.3	2.5
70°-80°	89.2	1.7
80°-90°	33.1	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°	2586.6	49.0
0°-40°	3998.7	75.8
0°-60°	5022.5	95.2
0°-90°	5274.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5274.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3004	
5°	2972	282
15°	2949	847
25°	3212	1458
35°	2363	1412
45°	868	696
55°	352	328
65°	122	129
75°	86	89
85°	29	33
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3003.8
2.5°	2994.3
5°	2971.8
7.5°	2949.4
10°	2930.3
12.5°	2927.0
15°	2949.4
17.5°	3016.6
20°	3106.4
22.5°	3186.3
25°	3212.0
27.5°	3154.3
30°	3000.7
32.5°	2747.7
35°	2363.3
37.5°	1835.0
40°	1357.8
42.5°	1053.6
45°	867.9
47.5°	730.2
50°	602.0
52.5°	474.0
55°	352.2
57.5°	256.2
60°	192.2
62.5°	150.5
65°	121.7
67.5°	105.7
70°	99.2
72.5°	92.8
75°	86.5
77.5°	76.9
80°	64.0
82.5°	48.1
85°	28.8
87.5°	12.9
90°	0.0



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— 0°-180°







(END OF REPORT)