

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: P584580

Luminaire Tested: **HC840D010-HM82555927-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584580
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: HC840D010-HM82555927-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3340.0 lumens
Efficiency: N/A
Efficacy: 81.5 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

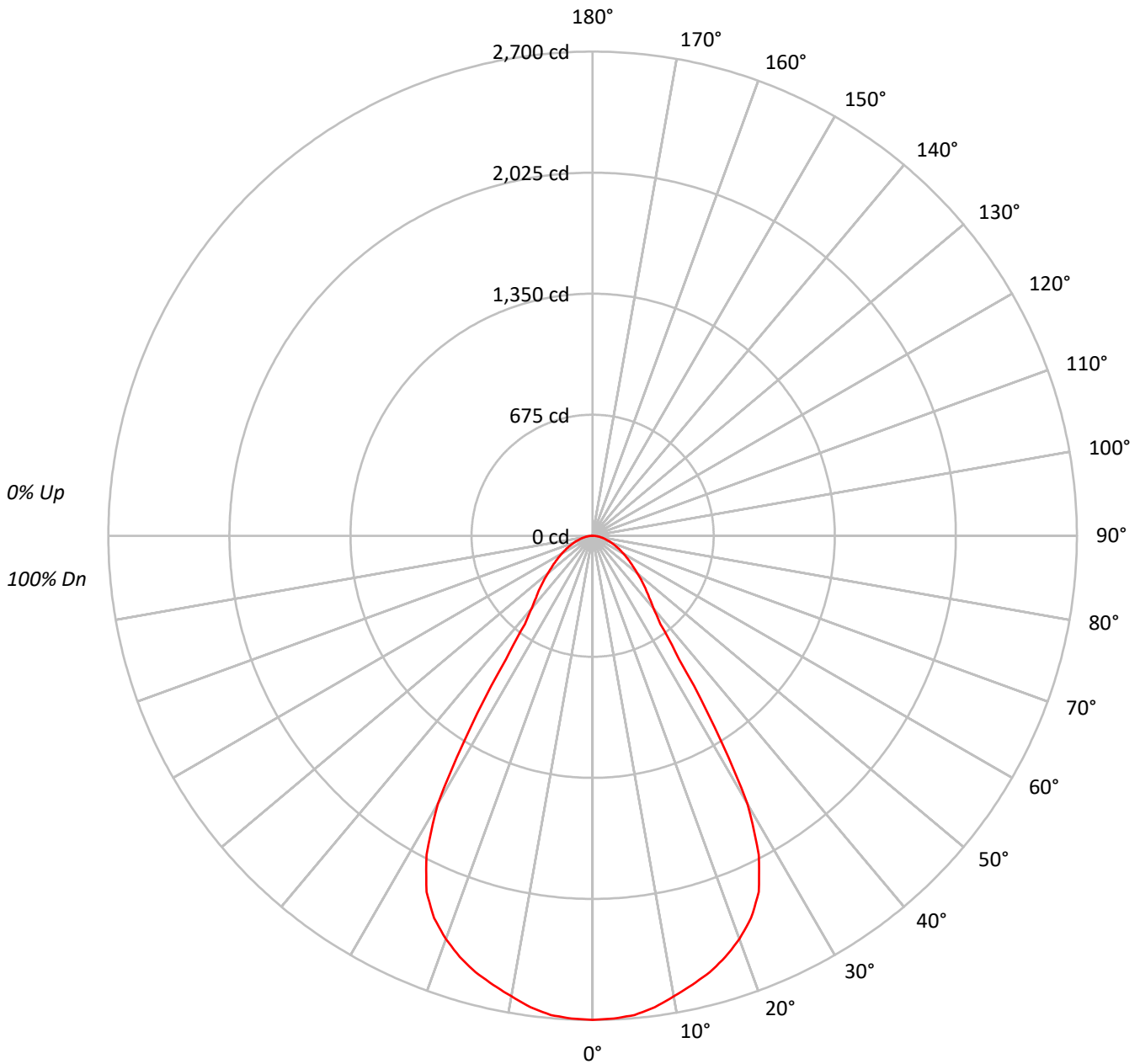
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	101	102	100	98	98	96	95	95	93	92	90			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	83252
5°	83031
10°	81643
15°	80455
20°	78524
25°	74540
30°	61482
35°	31655
40°	21194
45°	18172
50°	15682
55°	13682
60°	12156
65°	10923
70°	9899
75°	8924
80°	7973
85°	7961



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.6	7.6
10°-20°	709.0	21.2
20°-30°	982.4	29.4
30°-40°	590.1	17.7
40°-50°	323.0	9.7
50°-60°	229.5	6.9
60°-70°	149.0	4.5
70°-80°	79.6	2.4
80°-90°	23.8	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°	1945.1	58.2
0°-40°	2535.1	75.9
0°-60°	3087.7	92.4
0°-90°	3340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3340.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2700	
5°	2682	254
15°	2520	709
25°	2191	982
35°	841	590
45°	417	323
55°	254	229
65°	150	149
75°	75	80
85°	22	24
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2699.8
2.5°	2694.8
5°	2682.4
7.5°	2652.4
10°	2607.4
12.5°	2565.0
15°	2520.2
17.5°	2462.7
20°	2392.9
22.5°	2308.0
25°	2190.8
27.5°	2006.1
30°	1726.7
32.5°	1265.1
35°	840.9
37.5°	621.3
40°	526.5
42.5°	466.6
45°	416.7
47.5°	369.3
50°	326.9
52.5°	286.9
55°	254.5
57.5°	224.6
60°	197.1
62.5°	172.2
65°	149.7
67.5°	127.2
70°	109.8
72.5°	89.8
75°	74.9
77.5°	59.9
80°	44.9
82.5°	32.5
85°	22.5
87.5°	10.0
90°	0.0



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— 0°-180°







(END OF REPORT)