

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: P579768

Luminaire Tested: **HC410D010-HM40525927-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC410D010-HM40525927-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 833.7 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

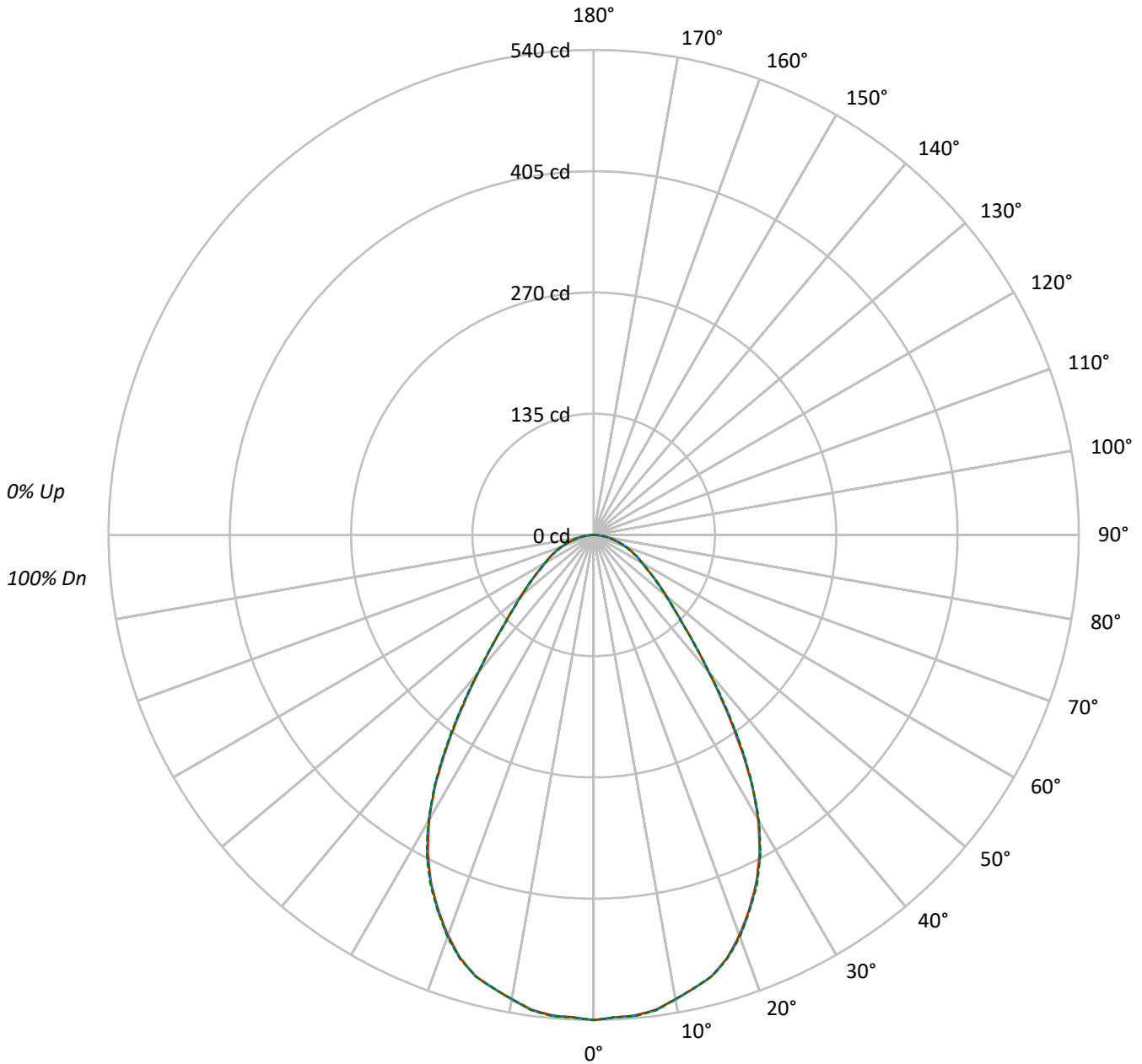
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89																			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78																			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69																			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51																			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																			
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42																			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39																			
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	66644	66644	66644
5°	66490	66564	66564
10°	65718	65780	65718
15°	64934	64934	64934
20°	62257	62415	62481
25°	58236	58317	58467
30°	52185	52342	52342
35°	42357	42704	42794
40°	31978	32155	32252
45°	24491	24404	24404
50°	20187	20072	20072
55°	17333	17204	17204
60°	15468	15320	15320
65°	14505	14505	14505
70°	13488	13488	13488
75°	12248	12534	12248
80°	11578	11152	11578
85°	9482	9482	9482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.9	6.1
10°-20°	142.5	17.1
20°-30°	195.8	23.5
30°-40°	176.0	21.1
40°-50°	111.3	13.3
50°-60°	72.6	8.7
60°-70°	49.2	5.9
70°-80°	27.7	3.3
80°-90°	7.8	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°	389.2	46.7
0°-40°	565.2	67.8
0°-60°	749.1	89.8
0°-90°	833.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	833.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	540	540	540	540	540	
5°	537	537	538	538	538	51
15°	508	508	508	508	508	142
25°	428	428	428	430	430	195
35°	281	282	284	285	284	175
45°	140	140	140	140	140	111
55°	81	81	80	81	80	73
65°	50	50	50	50	50	49
75°	26	26	26	26	26	28
85°	7	7	7	7	7	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	540.3	540.3	540.3	540.3	540.3
2.5°	537.6	537.6	537.6	537.6	537.6
5°	537.0	537.0	537.6	537.6	537.6
7.5°	533.0	533.6	533.6	533.6	533.6
10°	524.7	524.7	525.2	525.2	524.7
12.5°	516.9	516.9	516.9	517.4	516.9
15°	508.5	508.5	508.5	508.5	508.5
17.5°	493.9	494.5	494.5	494.5	494.5
20°	474.3	475.5	475.5	476.0	476.0
22.5°	452.0	452.5	453.0	453.6	453.0
25°	427.9	428.5	428.5	429.6	429.6
27.5°	399.9	400.5	401.6	401.6	401.6
30°	366.4	366.9	367.5	367.5	367.5
32.5°	326.7	326.7	327.7	328.3	327.7
35°	281.3	282.5	283.6	284.7	284.2
37.5°	238.3	239.4	240.0	240.0	240.6
40°	198.6	199.7	199.7	200.9	200.3
42.5°	167.3	166.7	166.7	167.9	167.3
45°	140.4	139.9	139.9	139.9	139.9
47.5°	120.9	120.3	120.3	120.3	120.3
50°	105.2	104.6	104.6	104.6	104.6
52.5°	92.3	91.7	91.7	91.7	91.2
55°	80.6	80.6	80.0	80.6	80.0
57.5°	69.9	69.9	69.9	69.9	69.9
60°	62.7	62.1	62.1	62.1	62.1
62.5°	56.0	56.0	56.0	56.0	56.0
65°	49.7	49.7	49.7	49.7	49.7
67.5°	43.6	43.0	43.6	43.6	43.0
70°	37.4	36.9	37.4	37.4	37.4
72.5°	31.3	31.3	31.3	31.9	31.3
75°	25.7	26.3	26.3	26.3	25.7
77.5°	20.7	21.3	20.7	20.7	20.7
80°	16.3	15.7	15.7	15.7	16.3
82.5°	11.2	11.2	11.2	11.2	11.2
85°	6.7	6.7	6.7	6.7	6.7
87.5°	2.8	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)