

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: P579732

Luminaire Tested: **HC410D010-HM40525835-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579732
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-HM40525835-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1094.0 lumens
Efficiency: N/A
Efficacy: 110.5 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

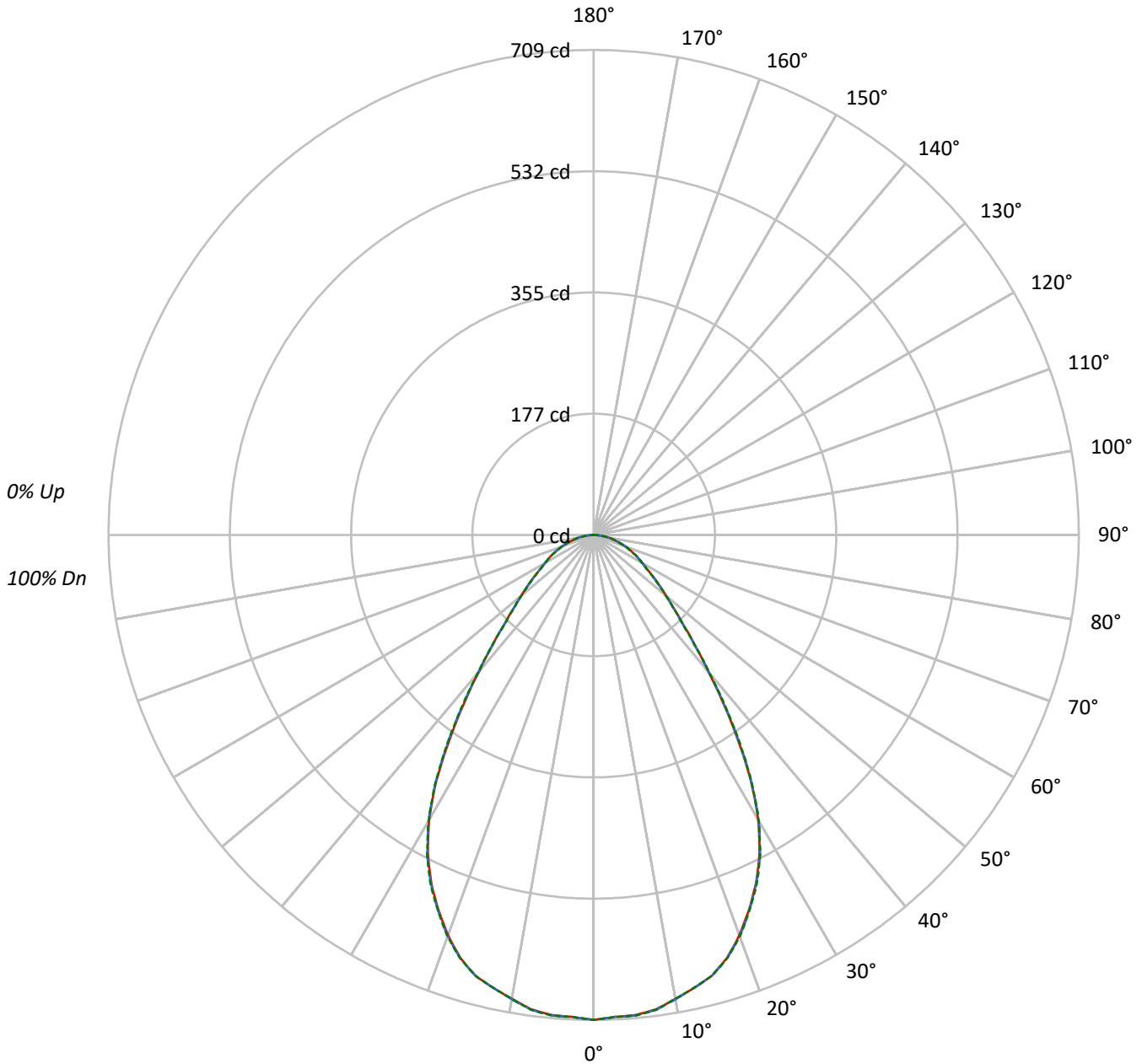
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	87464	87464	87464
5°	87241	87340	87340
10°	86234	86334	86234
15°	85199	85199	85199
20°	81710	81907	81986
25°	76418	76527	76731
30°	68479	68693	68693
35°	55593	56030	56150
40°	41961	42202	42315
45°	32131	32027	32027
50°	26481	26328	26328
55°	22730	22558	22558
60°	20278	20105	20105
65°	19058	19058	19058
70°	17743	17743	17743
75°	16108	16442	16108
80°	15130	14633	15130
85°	12454	12454	12454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	6.1
10°-20°	187.0	17.1
20°-30°	256.9	23.5
30°-40°	231.0	21.1
40°-50°	146.0	13.3
50°-60°	95.3	8.7
60°-70°	64.6	5.9
70°-80°	36.4	3.3
80°-90°	10.2	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°	510.7	46.7
0°-40°	741.7	67.8
0°-60°	982.9	89.8
0°-90°	1094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	709	709	709	709	709	
5°	705	705	705	705	705	67
15°	667	667	667	667	667	187
25°	562	562	562	564	564	256
35°	369	371	372	374	373	230
45°	184	184	184	184	184	146
55°	106	106	105	106	105	96
65°	65	65	65	65	65	65
75°	34	34	34	34	34	36
85°	9	9	9	9	9	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	709.1	709.1	709.1	709.1	709.1
2.5°	705.4	705.4	705.4	705.4	705.4
5°	704.6	704.6	705.4	705.4	705.4
7.5°	699.5	700.2	700.2	700.2	700.2
10°	688.5	688.5	689.3	689.3	688.5
12.5°	678.2	678.2	678.2	678.9	678.2
15°	667.2	667.2	667.2	667.2	667.2
17.5°	648.2	648.9	648.9	648.9	648.9
20°	622.5	624.0	624.0	624.6	624.6
22.5°	593.1	593.8	594.6	595.3	594.6
25°	561.5	562.3	562.3	563.8	563.8
27.5°	524.8	525.5	527.0	527.0	527.0
30°	480.8	481.5	482.3	482.3	482.3
32.5°	428.7	428.7	430.2	430.8	430.2
35°	369.2	370.6	372.1	373.6	372.9
37.5°	312.7	314.2	314.9	314.9	315.7
40°	260.6	262.1	262.1	263.6	262.8
42.5°	219.5	218.7	218.7	220.2	219.5
45°	184.2	183.6	183.6	183.6	183.6
47.5°	158.5	157.8	157.8	157.8	157.8
50°	138.0	137.2	137.2	137.2	137.2
52.5°	121.1	120.4	120.4	120.4	119.6
55°	105.7	105.7	104.9	105.7	104.9
57.5°	91.7	91.7	91.7	91.7	91.7
60°	82.2	81.5	81.5	81.5	81.5
62.5°	73.4	73.4	73.4	73.4	73.4
65°	65.3	65.3	65.3	65.3	65.3
67.5°	57.2	56.6	57.2	57.2	56.6
70°	49.2	48.5	49.2	49.2	49.2
72.5°	41.1	41.1	41.1	41.9	41.1
75°	33.8	34.5	34.5	34.5	33.8
77.5°	27.2	27.9	27.2	27.2	27.2
80°	21.3	20.6	20.6	20.6	21.3
82.5°	14.7	14.7	14.7	14.7	14.7
85°	8.8	8.8	8.8	8.8	8.8
87.5°	3.6	3.6	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)