

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: P581239

Luminaire Tested: **HC455D010-HM44560935-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581239
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: HC455D010-HM44560935-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4310.8 lumens
Efficiency: N/A
Efficacy: 82.9 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

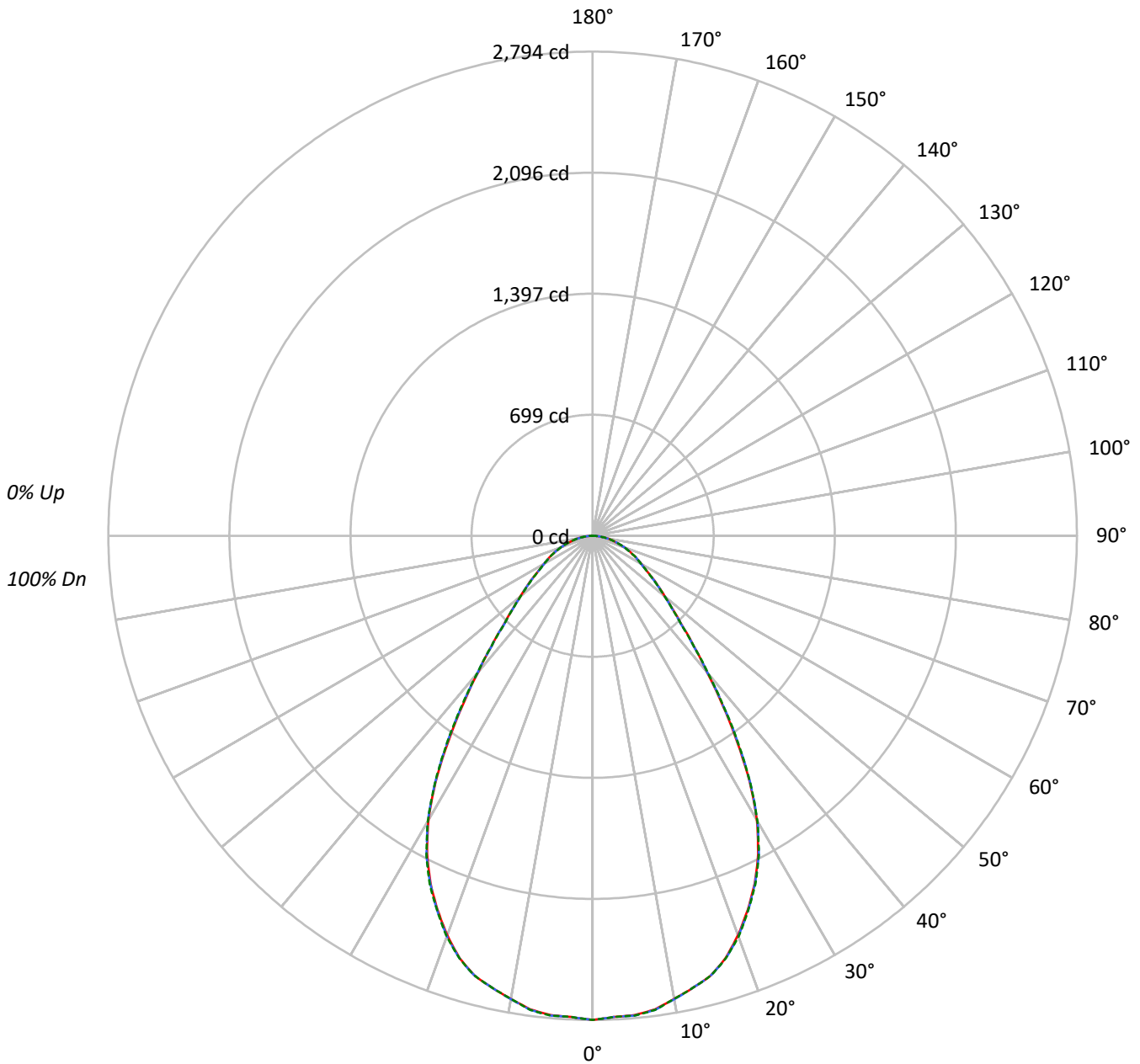
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	344615	344615	344615
5°	343790	344149	344149
10°	339799	340162	339799
15°	335728	335728	335728
20°	321946	322707	323087
25°	301128	301536	302312
30°	269828	270640	270640
35°	219075	220806	221228
40°	165332	166249	166716
45°	126641	126118	126118
50°	104332	103794	103794
55°	89567	88943	88943
60°	79903	79213	79213
65°	75125	75125	75125
70°	69892	69892	69892
75°	63432	64766	63432
80°	59596	57536	59596
85°	49250	49250	49250



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.2	6.1
10°-20°	736.7	17.1
20°-30°	1012.3	23.5
30°-40°	910.2	21.1
40°-50°	575.1	13.3
50°-60°	375.5	8.7
60°-70°	254.4	5.9
70°-80°	143.2	3.3
80°-90°	40.2	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°	2012.2	46.7
0°-40°	2922.4	67.8
0°-60°	3873.0	89.8
0°-90°	4310.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4310.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2794	2794	2794	2794	2794	
5°	2777	2777	2780	2780	2780	263
15°	2629	2629	2629	2629	2629	736
25°	2213	2216	2216	2221	2221	1010
35°	1455	1461	1466	1472	1469	906
45°	726	723	723	723	723	576
55°	416	416	414	416	414	377
65°	257	257	257	257	257	255
75°	133	136	136	136	133	143
85°	35	35	35	35	35	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2793.9	2793.9	2793.9	2793.9	2793.9
2.5°	2779.5	2779.5	2779.5	2779.5	2779.5
5°	2776.6	2776.6	2779.5	2779.5	2779.5
7.5°	2756.4	2759.3	2759.3	2759.3	2759.3
10°	2713.0	2713.0	2715.9	2715.9	2713.0
12.5°	2672.5	2672.5	2672.5	2675.4	2672.5
15°	2629.1	2629.1	2629.1	2629.1	2629.1
17.5°	2554.0	2556.8	2556.8	2556.8	2556.8
20°	2452.7	2458.5	2458.5	2461.4	2461.4
22.5°	2337.0	2339.9	2342.8	2345.6	2342.8
25°	2212.6	2215.6	2215.6	2221.3	2221.3
27.5°	2068.0	2070.9	2076.8	2076.8	2076.8
30°	1894.5	1897.4	1900.2	1900.2	1900.2
32.5°	1689.1	1689.1	1694.9	1697.8	1694.9
35°	1454.9	1460.6	1466.4	1472.2	1469.2
37.5°	1232.1	1238.0	1240.8	1240.8	1243.7
40°	1026.8	1032.5	1032.5	1038.4	1035.4
42.5°	864.8	861.9	861.9	867.7	864.8
45°	726.0	723.0	723.0	723.0	723.0
47.5°	624.7	621.9	621.9	621.9	621.9
50°	543.7	540.9	540.9	540.9	540.9
52.5°	477.2	474.3	474.3	474.3	471.5
55°	416.5	416.5	413.6	416.5	413.6
57.5°	361.6	361.6	361.6	361.6	361.6
60°	323.9	321.1	321.1	321.1	321.1
62.5°	289.2	289.2	289.2	289.2	289.2
65°	257.4	257.4	257.4	257.4	257.4
67.5°	225.6	222.8	225.6	225.6	222.8
70°	193.8	190.9	193.8	193.8	193.8
72.5°	162.0	162.0	162.0	164.8	162.0
75°	133.1	135.9	135.9	135.9	133.1
77.5°	107.0	109.9	107.0	107.0	107.0
80°	83.9	81.0	81.0	81.0	83.9
82.5°	57.8	57.8	57.8	57.8	57.8
85°	34.8	34.8	34.8	34.8	34.8
87.5°	14.5	14.5	14.5	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)