

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: P580447

Luminaire Tested: **HC435D010-HM43040835-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580447
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: HC435D010-HM43040835-41WDW
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: 3511.7 lumens
Efficiency: N/A
Efficacy: 104.2 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

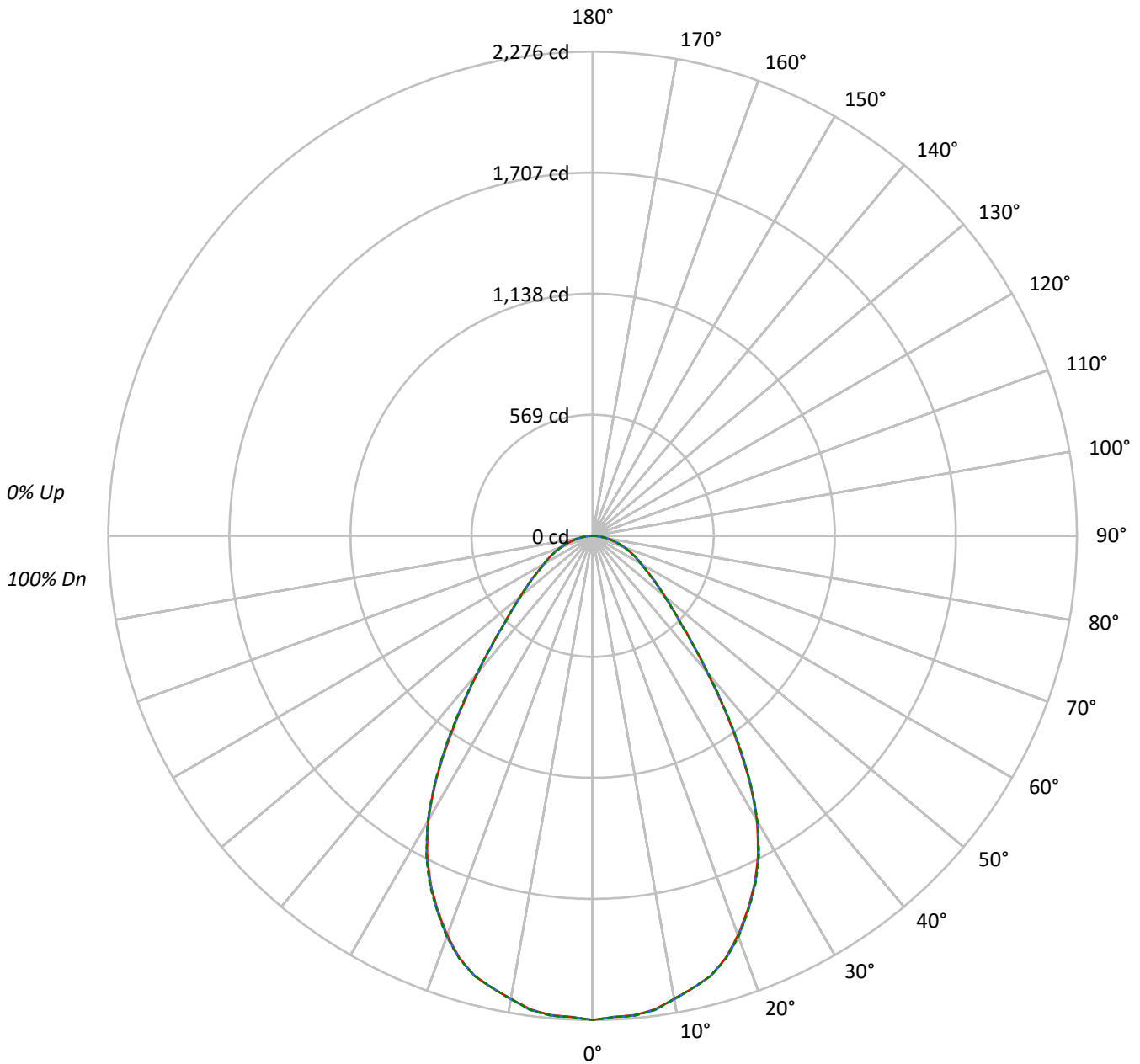
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	280735	280735	280735
5°	280061	280358	280358
10°	276799	277100	276799
15°	273501	273501	273501
20°	262261	262878	263193
25°	245301	245628	246267
30°	219808	220477	220477
35°	178449	179880	180226
40°	134690	135431	135801
45°	103145	102761	102761
50°	85008	84547	84547
55°	72965	72471	72471
60°	65102	64534	64534
65°	61203	61203	61203
70°	56909	56909	56909
75°	51660	52756	51660
80°	48515	46881	48515
85°	40051	40051	40051



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	6.1
10°-20°	600.1	17.1
20°-30°	824.6	23.5
30°-40°	741.5	21.1
40°-50°	468.5	13.3
50°-60°	305.9	8.7
60°-70°	207.2	5.9
70°-80°	116.7	3.3
80°-90°	32.8	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°	1639.2	46.7
0°-40°	2380.7	67.8
0°-60°	3155.1	89.8
0°-90°	3511.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3511.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2276	2276	2276	2276	2276	
5°	2262	2262	2264	2264	2264	214
15°	2142	2142	2142	2142	2142	600
25°	1802	1805	1805	1810	1810	823
35°	1185	1190	1195	1199	1197	738
45°	591	589	589	589	589	469
55°	339	339	337	339	337	307
65°	210	210	210	210	210	208
75°	108	111	111	111	108	116
85°	28	28	28	28	28	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2276.0	2276.0	2276.0	2276.0	2276.0
2.5°	2264.3	2264.3	2264.3	2264.3	2264.3
5°	2261.9	2261.9	2264.3	2264.3	2264.3
7.5°	2245.4	2247.8	2247.8	2247.8	2247.8
10°	2210.0	2210.0	2212.4	2212.4	2210.0
12.5°	2177.1	2177.1	2177.1	2179.4	2177.1
15°	2141.8	2141.8	2141.8	2141.8	2141.8
17.5°	2080.5	2082.9	2082.9	2082.9	2082.9
20°	1998.0	2002.7	2002.7	2005.1	2005.1
22.5°	1903.7	1906.1	1908.4	1910.8	1908.4
25°	1802.4	1804.8	1804.8	1809.5	1809.5
27.5°	1684.7	1687.0	1691.7	1691.7	1691.7
30°	1543.3	1545.6	1548.0	1548.0	1548.0
32.5°	1376.0	1376.0	1380.7	1383.1	1380.7
35°	1185.1	1189.9	1194.6	1199.3	1196.9
37.5°	1003.7	1008.5	1010.8	1010.8	1013.2
40°	836.5	841.1	841.1	845.8	843.4
42.5°	704.5	702.2	702.2	706.9	704.5
45°	591.3	589.1	589.1	589.1	589.1
47.5°	508.9	506.6	506.6	506.6	506.6
50°	443.0	440.6	440.6	440.6	440.6
52.5°	388.8	386.4	386.4	386.4	384.1
55°	339.3	339.3	337.0	339.3	337.0
57.5°	294.5	294.5	294.5	294.5	294.5
60°	263.9	261.6	261.6	261.6	261.6
62.5°	235.6	235.6	235.6	235.6	235.6
65°	209.7	209.7	209.7	209.7	209.7
67.5°	183.8	181.4	183.8	183.8	181.4
70°	157.8	155.6	157.8	157.8	157.8
72.5°	132.0	132.0	132.0	134.3	132.0
75°	108.4	110.7	110.7	110.7	108.4
77.5°	87.2	89.6	87.2	87.2	87.2
80°	68.3	66.0	66.0	66.0	68.3
82.5°	47.1	47.1	47.1	47.1	47.1
85°	28.3	28.3	28.3	28.3	28.3
87.5°	11.8	11.8	11.8	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)