

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: P583114

Luminaire Tested: **HC655D010-HM64560935-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583114  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC655D010-HM64560935-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4704.7 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

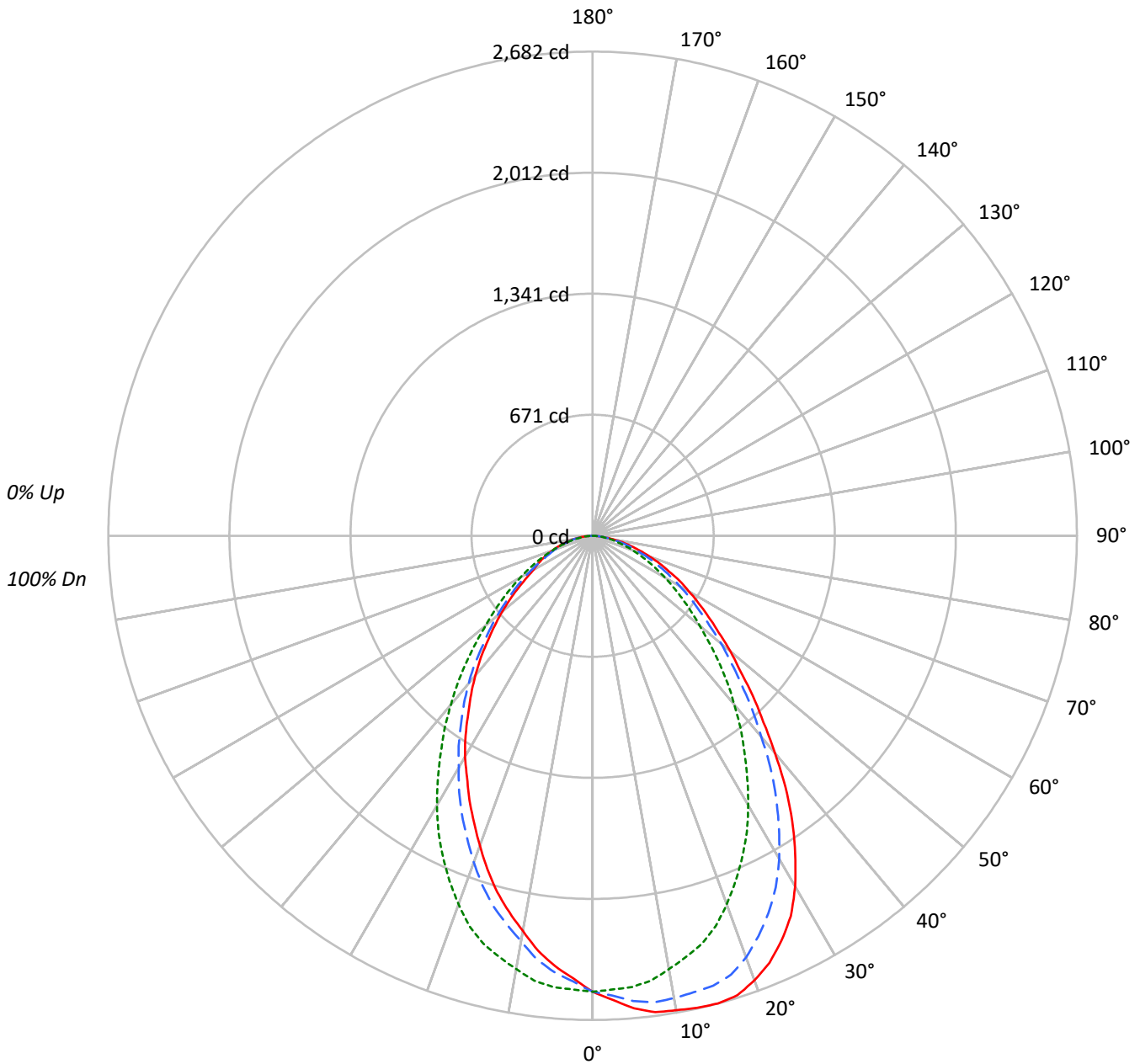
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76																			
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66																			
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58																			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51																			
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46																			
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42																			
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38																			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34																			
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	138454	138454	138454
5°	144596	138053	131691
10°	148539	135669	123751
15°	152214	132731	115943
20°	152893	126717	106491
25°	149682	118634	97669
30°	142009	109093	89507
35°	128981	98042	80301
40°	112382	87328	72250
45°	97243	76427	63510
50°	84944	65814	55666
55°	75056	57833	47759
60°	67462	50687	41367
65°	60409	44090	40134
70°	53951	37602	37602
75°	46810	31665	35287
80°	37568	26803	32201
85°	25663	23524	27801



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.4	5.0
10°-20°	659.8	14.0
20°-30°	919.6	19.5
30°-40°	947.5	20.1
40°-50°	785.2	16.7
50°-60°	564.3	12.0
60°-70°	359.4	7.6
70°-80°	184.6	3.9
80°-90°	46.9	1.0
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°	1816.8	38.6
0°-40°	2764.2	58.8
0°-60°	4113.8	87.4
0°-90°	4704.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4704.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2526	2526	2526	2526	2526	
5°	2628	2587	2509	2427	2393	252
15°	2682	2580	2339	2124	2043	756
25°	2475	2305	1961	1710	1615	1134
35°	1927	1771	1465	1271	1200	1197
45°	1254	1166	986	860	819	971
55°	785	721	605	537	500	707
65°	466	415	340	296	309	466
75°	221	190	150	156	167	236
85°	41	37	37	41	44	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2525.6	2525.6	2525.6	2525.6	2525.6	2525.6	2525.6	2525.6	2525.6
2.5°	2573.3	2563.0	2549.4	2535.8	2515.4	2491.6	2471.3	2464.4	2454.3
5°	2627.6	2614.0	2586.7	2552.8	2508.7	2464.4	2427.0	2403.3	2393.1
7.5°	2661.6	2644.6	2607.2	2549.4	2484.8	2420.3	2365.9	2331.8	2318.3
10°	2668.4	2651.3	2600.4	2522.3	2437.2	2348.8	2280.8	2240.1	2223.1
12.5°	2678.5	2654.8	2590.2	2498.4	2389.7	2287.7	2202.7	2151.8	2134.7
15°	2682.0	2654.8	2580.0	2467.9	2338.7	2216.4	2124.5	2063.3	2042.9
17.5°	2668.4	2637.9	2549.4	2413.4	2267.3	2138.2	2029.3	1964.7	1937.5
20°	2620.8	2586.7	2484.8	2331.8	2172.1	2036.2	1923.9	1856.0	1825.4
22.5°	2559.7	2515.4	2399.8	2236.7	2070.1	1927.3	1815.2	1747.2	1716.7
25°	2474.6	2433.8	2304.7	2131.3	1961.3	1811.8	1709.8	1638.5	1614.7
27.5°	2376.1	2328.5	2195.9	2022.6	1849.1	1699.6	1601.1	1536.5	1505.8
30°	2243.4	2199.3	2066.7	1893.4	1723.4	1584.0	1482.1	1427.6	1414.0
32.5°	2087.2	2049.8	1920.6	1757.3	1594.2	1465.0	1380.1	1322.2	1308.8
35°	1927.3	1883.2	1771.0	1618.0	1465.0	1349.4	1271.3	1220.3	1199.9
37.5°	1754.0	1713.2	1618.0	1482.1	1346.1	1237.3	1169.3	1125.2	1104.8
40°	1570.4	1539.8	1451.4	1342.7	1220.3	1125.2	1067.3	1029.9	1009.6
42.5°	1400.4	1369.9	1308.8	1206.8	1104.8	1019.7	968.8	934.8	917.8
45°	1254.3	1227.1	1166.0	1077.6	985.8	914.3	860.0	836.3	819.2
47.5°	1108.1	1094.5	1040.2	958.6	873.6	812.4	775.0	747.8	734.3
50°	996.0	978.9	927.9	843.0	771.7	724.0	690.0	666.3	652.7
52.5°	880.4	863.4	815.8	744.5	686.6	642.5	608.4	588.1	574.5
55°	785.3	771.7	720.7	656.1	605.1	567.7	537.1	513.3	499.7
57.5°	696.8	683.3	635.6	574.5	530.2	496.3	469.1	448.7	431.7
60°	615.3	605.1	557.4	499.7	462.3	428.2	404.5	387.6	377.3
62.5°	543.8	523.5	482.7	431.7	397.7	370.5	346.7	336.6	343.3
65°	465.7	455.5	414.8	370.5	339.9	312.8	295.8	302.5	309.4
67.5°	401.2	387.6	353.5	312.8	285.6	265.1	254.9	268.5	272.0
70°	336.6	323.0	292.3	258.4	234.6	221.0	221.0	231.2	234.6
72.5°	275.3	265.1	237.9	210.8	193.8	183.6	190.3	197.2	200.5
75°	221.0	210.8	190.3	166.6	149.5	149.5	156.4	163.1	166.6
77.5°	170.0	163.1	142.8	125.8	119.0	119.0	125.8	129.2	132.6
80°	119.0	112.1	102.0	91.8	84.9	91.8	98.5	98.5	102.0
82.5°	78.2	74.8	68.0	61.2	61.2	64.6	68.0	71.3	71.3
85°	40.8	40.8	37.4	34.0	37.4	40.8	40.8	44.2	44.2
87.5°	13.6	13.6	13.6	13.6	17.0	17.0	17.0	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)