

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: P583052

Luminaire Tested: **HC655D010-HM64560840-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583052  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC655D010-HM64560840-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5921.7 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

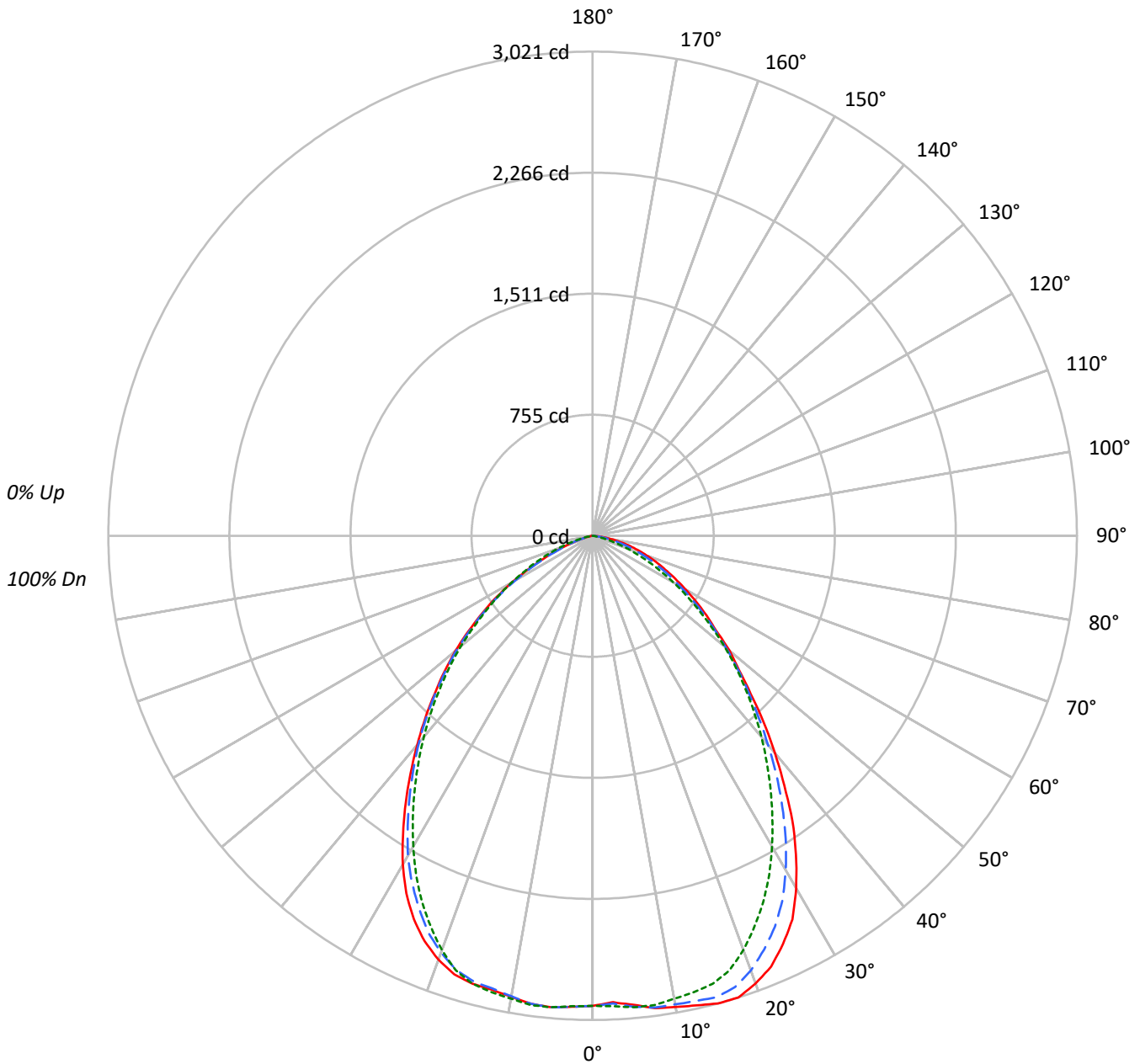
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68																			
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42																			
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38																			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35																			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32																			

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

	0°	90°	180°
0°	160793	160793	160793
5°	161633	162502	162502
10°	166151	163274	162617
15°	171437	164212	164212
20°	173434	160454	164164
25°	169969	152416	159626
30°	160765	141642	149947
35°	145491	129536	135921
40°	126573	117184	121728
45°	108151	104453	108151
50°	94905	91519	95255
55°	82807	77111	80150
60°	73207	64063	63197
65°	64962	50511	43299
70°	57333	35663	26110
75°	48843	20185	12624
80°	36368	6282	3757
85°	20002	2516	2516



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.4	4.8
10°-20°	823.2	13.9
20°-30°	1202.3	20.3
30°-40°	1260.9	21.3
40°-50°	1062.3	17.9
50°-60°	744.3	12.6
60°-70°	399.0	6.7
70°-80°	133.8	2.3
80°-90°	14.6	0.2
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°	2306.9	39.0
0°-40°	3567.8	60.2
0°-60°	5374.3	90.8
0°-90°	5921.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5921.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2933	2933	2933	2933	2933	
5°	2937	2949	2953	2953	2953	282
15°	3021	2981	2893	2878	2893	852
25°	2810	2691	2520	2564	2639	1287
35°	2174	2063	1936	1991	2031	1349
45°	1395	1371	1347	1383	1395	1087
55°	866	839	807	823	839	780
65°	501	457	389	322	334	500
75°	231	179	95	60	60	244
85°	32	16	4	4	4	44
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°	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1
2.5°	2913.3	2913.3	2921.3	2929.2	2937.2	2937.2	2941.2	2945.1	2941.2
5°	2937.2	2937.2	2949.1	2953.0	2953.0	2949.1	2953.0	2953.0	2953.0
7.5°	2972.9	2965.0	2969.0	2961.0	2953.0	2949.1	2945.1	2945.1	2945.1
10°	2984.8	2976.9	2969.0	2953.0	2933.1	2921.3	2917.3	2921.3	2921.3
12.5°	3000.8	2992.8	2972.9	2941.2	2917.3	2897.4	2893.4	2901.4	2901.4
15°	3020.7	3012.6	2980.9	2929.2	2893.4	2873.6	2877.5	2885.5	2893.4
17.5°	3020.7	3004.7	2953.0	2885.5	2841.8	2821.9	2837.8	2857.7	2869.6
20°	2972.9	2957.0	2885.5	2802.1	2750.4	2738.4	2766.2	2802.1	2814.0
22.5°	2909.4	2877.5	2794.1	2694.8	2639.0	2639.0	2678.8	2722.6	2738.4
25°	2810.0	2786.1	2690.7	2575.5	2519.8	2515.9	2563.6	2623.2	2639.0
27.5°	2698.7	2666.8	2563.6	2444.3	2384.7	2388.7	2440.3	2499.9	2515.9
30°	2539.7	2499.9	2408.6	2293.2	2237.6	2253.5	2305.2	2349.0	2368.8
32.5°	2360.9	2325.1	2241.7	2134.4	2086.6	2102.5	2146.2	2185.9	2201.9
35°	2174.0	2134.4	2062.8	1967.3	1935.6	1951.5	1991.2	2023.0	2031.0
37.5°	1963.4	1935.6	1883.9	1808.5	1784.6	1804.4	1836.3	1856.1	1864.1
40°	1768.7	1744.8	1701.0	1645.4	1637.5	1653.4	1685.2	1697.1	1701.0
42.5°	1577.9	1558.0	1530.2	1490.5	1490.5	1506.3	1534.1	1542.2	1546.1
45°	1395.0	1383.2	1371.2	1339.4	1347.3	1367.2	1383.2	1395.0	1395.0
47.5°	1236.1	1240.0	1224.2	1200.3	1208.2	1228.1	1240.0	1252.0	1252.0
50°	1112.8	1100.9	1085.0	1061.2	1073.1	1089.1	1104.9	1112.8	1116.9
52.5°	969.8	965.8	953.9	926.1	934.0	941.9	957.9	969.8	973.7
55°	866.4	854.5	838.6	806.8	806.8	814.7	822.8	830.7	838.6
57.5°	767.1	755.1	731.3	695.5	691.6	691.6	687.6	695.5	707.4
60°	667.7	663.8	627.9	596.2	584.3	572.3	556.5	560.4	576.4
62.5°	580.3	572.3	540.5	500.8	477.0	457.1	437.2	433.2	449.1
65°	500.8	492.8	457.1	417.4	389.4	353.7	321.9	321.9	333.8
67.5°	429.2	413.3	381.5	337.9	302.0	258.4	226.5	234.5	238.5
70°	357.7	345.8	310.1	266.3	222.5	178.9	159.0	162.9	162.9
72.5°	294.1	278.2	242.4	198.7	155.0	115.2	107.3	103.4	103.4
75°	230.6	214.6	178.9	135.1	95.3	67.5	59.6	59.6	59.6
77.5°	166.9	155.0	123.3	83.5	51.7	31.8	27.8	23.9	23.9
80°	115.2	103.4	75.5	43.8	19.9	11.9	11.9	11.9	11.9
82.5°	67.5	55.6	35.7	19.9	7.9	4.0	4.0	4.0	4.0
85°	31.8	23.9	15.9	7.9	4.0	4.0	4.0	4.0	4.0
87.5°	4.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
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)