

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: P593393

Luminaire Tested: **HC655D010-HM64560850-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593393  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC655D010-HM64560850-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5695.2 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

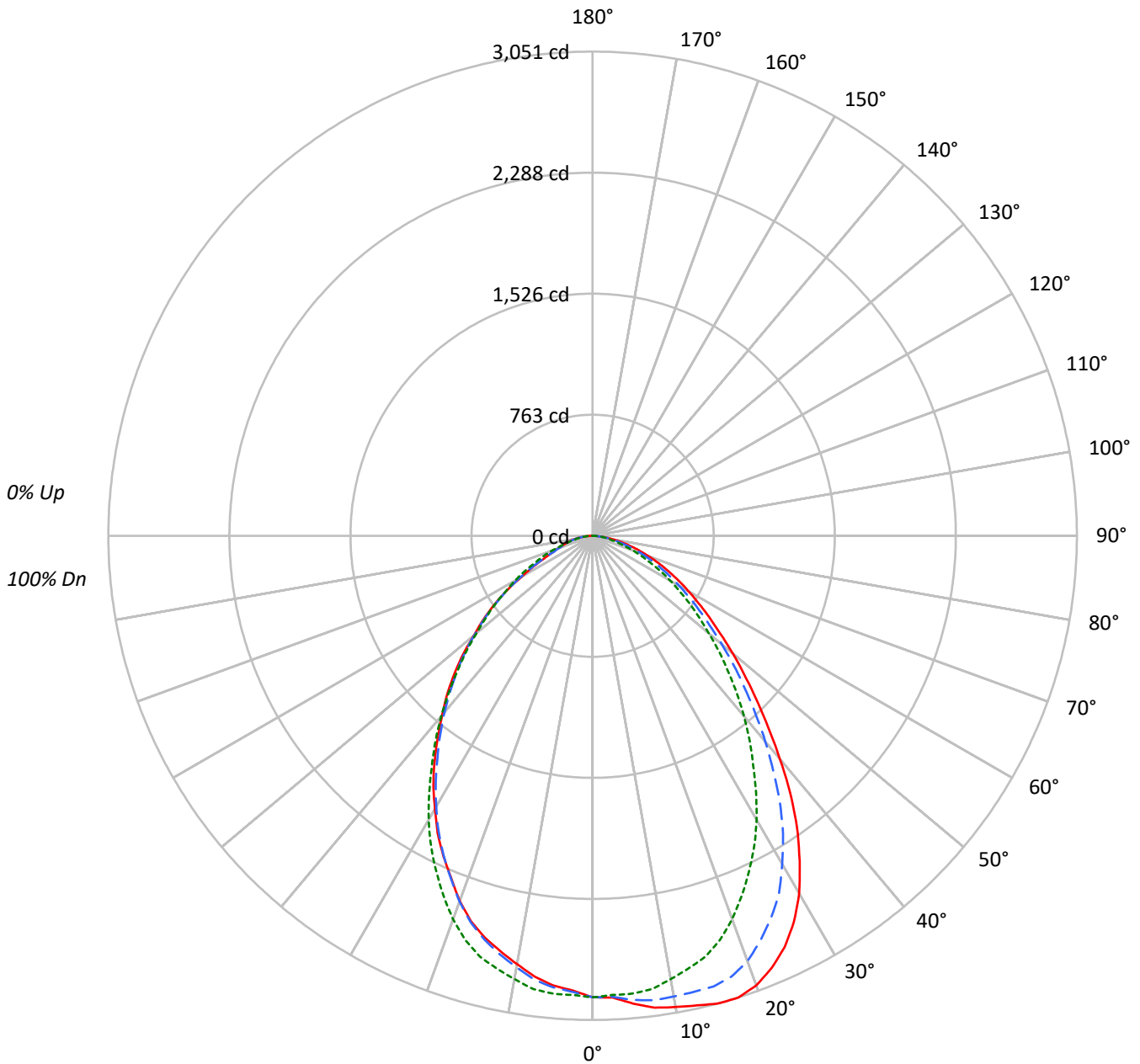
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				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			100
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87			87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76			76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66			66
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58			58
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52			52
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46			46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42			42
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38			38
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34			34
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31			31

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

	0°	90°	180°
0°	159428	159428	159428
5°	162871	159377	156532
10°	167860	157902	152591
15°	173168	155807	148815
20°	175919	149953	142772
25°	173024	141057	134578
30°	164722	130773	125747
35°	150216	118052	116192
40°	131346	106042	105476
45°	113035	93328	95483
50°	98257	81319	83016
55°	85818	71386	72150
60°	76222	61859	56629
65°	68023	52055	43286
70°	59866	42667	36288
75°	51342	33656	34504
80°	41388	28823	33874
85°	27487	24971	30003



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.3	4.8
10°-20°	783.9	13.8
20°-30°	1119.0	19.6
30°-40°	1172.1	20.6
40°-50°	986.8	17.3
50°-60°	702.4	12.3
60°-70°	411.1	7.2
70°-80°	194.5	3.4
80°-90°	50.0	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°	2178.2	38.2
0°-40°	3350.3	58.8
0°-60°	5039.5	88.5
0°-90°	5695.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5695.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2908	2908	2908	2908	2908	
5°	2960	2936	2896	2856	2844	284
15°	3051	2940	2745	2634	2622	861
25°	2860	2658	2332	2221	2225	1309
35°	2245	2058	1764	1704	1736	1394
45°	1458	1351	1204	1208	1232	1132
55°	898	822	747	747	755	809
65°	524	465	401	338	334	523
75°	242	203	159	155	163	260
85°	44	36	40	48	48	57
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°	2908.2	2908.2	2908.2	2908.2	2908.2	2908.2	2908.2	2908.2	2908.2
2.5°	2912.1	2912.1	2908.2	2904.1	2896.2	2884.3	2876.3	2868.4	2868.4
5°	2959.7	2951.8	2936.0	2916.1	2896.2	2872.4	2856.5	2844.5	2844.5
7.5°	2999.5	2983.6	2951.8	2916.1	2880.4	2848.5	2820.7	2804.9	2800.9
10°	3015.5	2995.6	2947.9	2892.2	2836.6	2792.9	2761.1	2741.2	2741.2
12.5°	3031.3	3007.4	2943.9	2864.4	2792.9	2733.3	2701.5	2685.6	2681.7
15°	3051.2	3019.4	2939.9	2840.6	2745.3	2677.7	2634.1	2622.1	2622.1
17.5°	3051.2	3011.4	2912.1	2788.9	2669.8	2594.3	2554.6	2542.6	2546.6
20°	3015.5	2971.7	2852.6	2701.5	2570.4	2491.0	2451.3	2443.4	2447.3
22.5°	2947.9	2896.2	2761.1	2598.2	2455.2	2371.8	2336.1	2336.1	2332.0
25°	2860.5	2804.9	2657.8	2487.0	2332.0	2248.6	2220.8	2224.9	2224.9
27.5°	2745.3	2689.7	2542.6	2359.8	2205.0	2121.5	2101.6	2109.6	2113.5
30°	2602.2	2542.6	2387.6	2208.9	2065.9	1982.5	1970.5	1982.5	1986.5
32.5°	2427.4	2383.7	2232.8	2050.0	1914.9	1843.5	1839.4	1851.4	1867.2
35°	2244.6	2196.9	2057.9	1891.1	1764.0	1704.3	1704.3	1724.2	1736.2
37.5°	2046.0	1998.3	1871.3	1732.1	1624.9	1569.2	1577.2	1597.1	1601.1
40°	1835.4	1799.7	1692.4	1573.3	1481.8	1438.2	1450.1	1470.0	1473.9
42.5°	1636.8	1605.1	1517.7	1410.4	1342.8	1311.0	1327.0	1350.7	1358.7
45°	1458.0	1422.3	1350.7	1259.4	1203.8	1187.9	1207.7	1223.7	1231.6
47.5°	1295.1	1263.3	1203.8	1120.3	1080.7	1072.6	1092.5	1100.5	1108.5
50°	1152.1	1120.3	1060.8	985.3	953.5	953.5	969.4	977.3	973.4
52.5°	1013.1	985.3	929.6	866.1	846.2	846.2	858.1	862.2	870.1
55°	897.9	870.1	822.4	762.8	746.9	738.9	746.9	746.9	754.9
57.5°	790.6	766.8	723.0	667.4	647.6	639.6	635.6	631.7	639.6
60°	695.2	675.4	627.7	580.0	564.2	544.3	528.4	512.5	516.5
62.5°	607.8	588.0	544.3	496.6	480.8	452.9	433.1	413.2	421.1
65°	524.4	504.5	464.8	425.1	401.3	369.5	337.7	325.8	333.7
67.5°	448.9	433.1	393.3	353.6	333.7	298.0	266.2	266.2	270.2
70°	373.5	357.5	325.8	290.1	266.2	234.4	222.5	226.4	226.4
72.5°	305.9	294.0	262.2	230.4	206.6	186.7	186.7	190.7	194.7
75°	242.4	234.4	202.6	174.8	158.9	147.0	155.0	158.9	162.9
77.5°	186.7	174.8	151.0	131.1	119.1	123.2	131.1	135.1	139.0
80°	131.1	127.2	107.3	95.3	91.3	95.3	103.3	107.3	107.3
82.5°	83.4	79.5	67.5	63.5	63.5	67.5	75.5	75.5	75.5
85°	43.7	39.7	35.7	35.7	39.7	43.7	47.7	47.7	47.7
87.5°	15.9	11.9	15.9	15.9	19.9	19.9	19.9	19.9	19.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







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







(END OF REPORT)