

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: P583113

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583113  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC655D010-HM64560935-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4306.9 lumens  
Efficiency: N/A  
Efficacy: 82.8 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

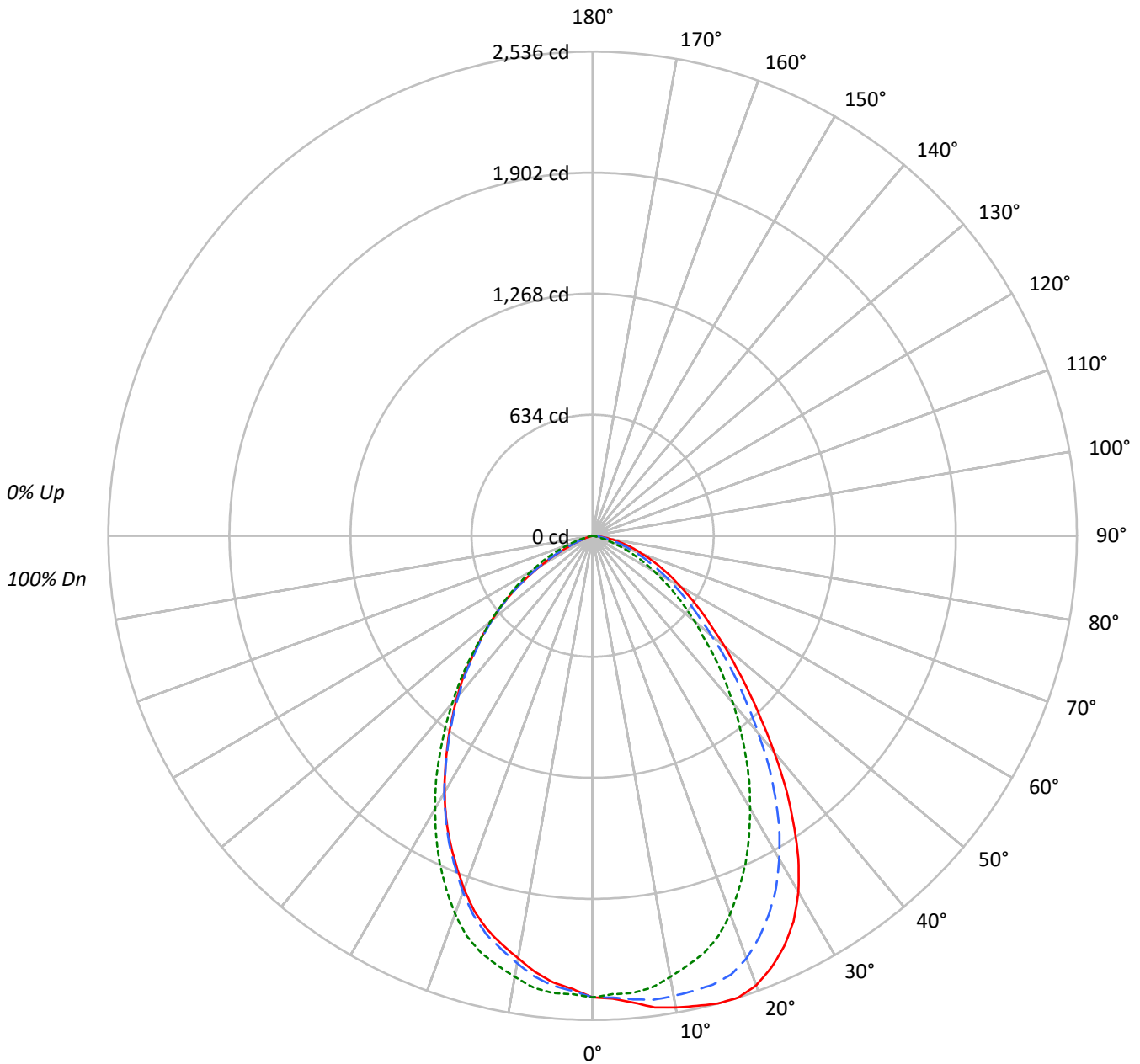
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69			69
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	67	63	61			61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54			54
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49			49
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44			44
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40			40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37			37
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34			34

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

	0°	90°	180°
0°	132495	132495	132495
5°	135059	132253	129253
10°	139649	130564	125076
15°	143923	128292	121153
20°	146149	122948	114822
25°	143512	114527	106917
30°	136420	104358	98123
35°	122616	93271	88499
40°	105813	81739	79062
45°	89606	70364	68519
50°	76833	59435	58847
55°	66607	50034	48084
60°	58142	40622	34295
65°	51147	31300	18964
70°	44126	20709	9248
75°	37427	10082	3601
80°	28981	4293	2115
85°	17109	2139	2139



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.1	5.3
10°-20°	645.0	15.0
20°-30°	908.3	21.1
30°-40°	928.0	21.5
40°-50°	748.2	17.4
50°-60°	501.8	11.7
60°-70°	253.9	5.9
70°-80°	81.2	1.9
80°-90°	12.5	0.3
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°	1781.3	41.4
0°-40°	2709.3	62.9
0°-60°	3959.3	91.9
0°-90°	4306.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4306.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2417	2417	2417	2417	2417	
5°	2454	2437	2403	2366	2349	236
15°	2536	2434	2260	2158	2135	716
25°	2373	2186	1893	1778	1768	1086
35°	1832	1666	1394	1316	1322	1140
45°	1156	1064	908	877	884	899
55°	697	619	524	500	503	627
65°	394	326	241	160	146	394
75°	177	126	48	17	17	190
85°	27	14	3	3	3	36
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°	2416.9	2416.9	2416.9	2416.9	2416.9	2416.9	2416.9	2416.9	2416.9
2.5°	2427.0	2423.7	2420.3	2413.4	2403.3	2393.1	2386.2	2379.5	2376.1
5°	2454.3	2447.5	2437.2	2423.7	2403.3	2379.5	2365.9	2352.3	2348.8
7.5°	2491.6	2478.0	2450.8	2420.3	2386.2	2352.3	2328.5	2314.9	2304.7
10°	2508.7	2484.9	2447.5	2396.5	2345.5	2304.7	2274.1	2253.7	2246.9
12.5°	2522.3	2495.1	2440.6	2372.6	2304.7	2250.3	2216.4	2199.3	2192.6
15°	2535.9	2508.7	2433.9	2345.5	2260.5	2195.9	2158.5	2141.6	2134.7
17.5°	2535.9	2498.5	2410.1	2297.9	2195.9	2117.7	2080.3	2063.4	2060.0
20°	2505.2	2464.4	2355.7	2223.1	2107.5	2019.1	1985.2	1975.0	1968.2
22.5°	2447.5	2399.8	2277.5	2128.0	2002.1	1917.2	1879.8	1873.0	1866.2
25°	2372.6	2325.1	2185.7	2026.0	1893.4	1808.5	1777.8	1771.1	1767.6
27.5°	2277.5	2226.5	2080.3	1917.2	1774.4	1692.9	1665.7	1665.7	1662.2
30°	2155.1	2097.3	1954.6	1791.4	1648.6	1573.9	1553.5	1553.5	1550.1
32.5°	2005.5	1947.8	1818.6	1662.2	1526.3	1448.1	1431.1	1437.9	1434.5
35°	1832.2	1784.6	1665.7	1512.7	1393.7	1322.4	1315.5	1322.4	1322.4
37.5°	1658.8	1614.7	1512.7	1380.1	1267.9	1203.3	1203.3	1213.5	1210.1
40°	1478.6	1444.7	1349.4	1234.0	1142.2	1097.9	1091.2	1101.4	1104.8
42.5°	1308.8	1281.5	1199.9	1104.8	1023.2	978.9	989.2	996.0	999.4
45°	1155.8	1128.6	1064.0	965.4	907.6	877.0	877.0	887.2	883.8
47.5°	1019.7	999.4	934.8	839.6	788.6	775.0	781.8	788.6	788.6
50°	900.9	870.2	809.1	734.3	696.9	679.9	686.6	690.0	690.0
52.5°	788.6	768.2	707.1	639.1	605.1	594.8	594.8	598.2	598.2
55°	696.9	673.0	618.7	550.7	523.5	509.9	499.7	496.3	503.1
57.5°	608.4	588.1	537.1	472.5	441.9	428.4	407.9	401.2	407.9
60°	530.3	513.3	462.3	401.2	370.5	343.3	319.5	305.9	312.8
62.5°	462.3	441.9	390.9	339.9	305.9	275.3	237.9	217.6	227.7
65°	394.3	377.3	326.3	275.3	241.3	203.9	159.8	146.2	146.2
67.5°	333.1	316.1	268.5	224.3	183.6	139.4	98.5	95.2	98.5
70°	275.3	258.4	217.6	173.3	129.2	84.9	57.7	57.7	57.7
72.5°	227.7	207.4	170.0	125.8	81.6	44.2	30.6	34.0	34.0
75°	176.7	159.8	125.8	84.9	47.6	20.3	17.0	17.0	17.0
77.5°	132.6	119.0	88.4	54.4	23.8	6.7	6.7	6.7	6.7
80°	91.8	78.2	57.7	34.0	13.6	6.7	6.7	6.7	6.7
82.5°	54.4	47.6	34.0	17.0	6.7	3.4	3.4	3.4	3.4
85°	27.2	23.8	13.6	6.7	3.4	3.4	3.4	3.4	3.4
87.5°	6.7	6.7	3.4	3.4	0.0	3.4	3.4	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)