

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: P583107

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583107
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560935-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5082.0 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

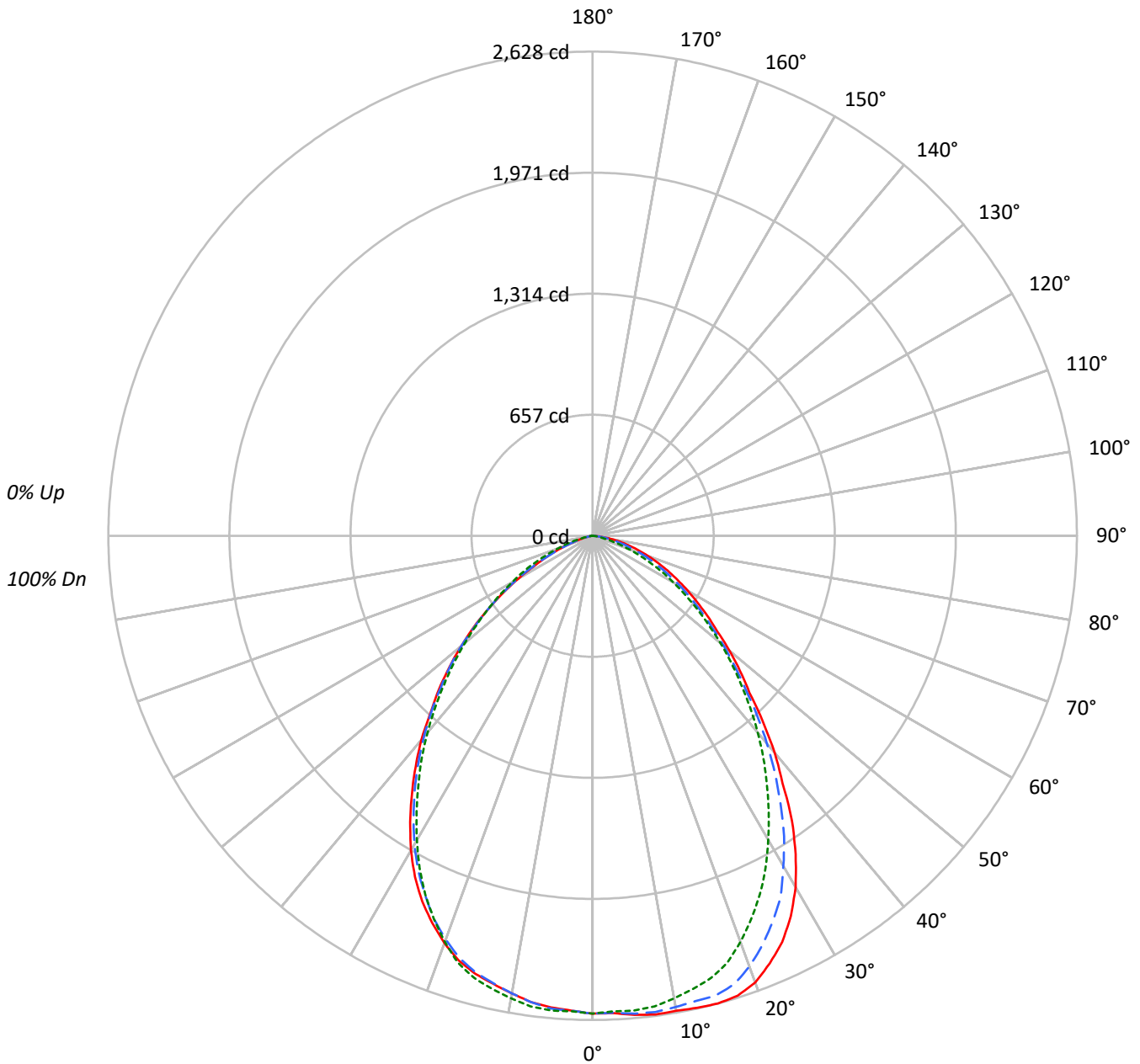
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583107

CATALOG NUMBER: HC655D010-HM64560935-61RWWH

Luminous Intensity Polar Plot





TEST NUMBER: P583107

CATALOG NUMBER: HC655D010-HM64560935-61RWWH

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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77			77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67			67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59			59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47			47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42			42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38			38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32			32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	142176	142176	142176
5°	143655	142345	141409
10°	145700	141915	140400
15°	149127	141022	139672
20°	150507	136827	137224
25°	147214	129939	132407
30°	139427	120708	124798
35°	126250	110329	114425
40°	109949	99737	103387
45°	93289	88288	91444
50°	82624	77115	79136
55°	72772	65947	65623
60°	65214	55522	51049
65°	58203	44531	36593
70°	51211	32137	22888
75°	43188	19444	12963
80°	33274	8587	5367
85°	19247	2139	2139



TEST NUMBER: P583107

CATALOG NUMBER: HC655D010-HM64560935-61RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.2	4.8
10°-20°	707.5	13.9
20°-30°	1022.8	20.1
30°-40°	1076.2	21.2
40°-50°	904.7	17.8
50°-60°	635.0	12.5
60°-70°	349.3	6.9
70°-80°	124.0	2.4
80°-90°	16.2	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°	1976.5	38.9
0°-40°	3052.7	60.1
0°-60°	4592.4	90.4
0°-90°	5082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5082.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2594	2594	2594	2594	2594	
5°	2610	2604	2587	2577	2570	249
15°	2628	2583	2485	2454	2461	741
25°	2434	2312	2148	2152	2189	1113
35°	1886	1778	1649	1683	1710	1169
45°	1203	1169	1139	1166	1180	944
55°	761	721	690	690	687	685
65°	449	401	343	282	282	447
75°	204	163	92	61	61	219
85°	31	17	3	3	3	42
90°	0	0	0	0	0	



TEST NUMBER: P583107

CATALOG NUMBER: HC655D010-HM64560935-61RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5
2.5°	2593.5	2593.5	2590.2	2590.2	2583.3	2583.3	2579.9	2579.9	2579.9
5°	2610.5	2610.5	2603.8	2593.5	2586.7	2576.6	2576.6	2573.1	2569.7
7.5°	2620.7	2617.4	2607.1	2593.5	2576.6	2559.5	2552.8	2556.1	2552.8
10°	2617.4	2610.5	2596.9	2569.7	2549.4	2525.6	2522.2	2518.7	2522.2
12.5°	2624.1	2614.0	2586.7	2552.8	2518.7	2491.5	2488.2	2488.2	2491.5
15°	2627.6	2617.4	2583.3	2532.3	2484.8	2457.6	2454.1	2457.6	2461.0
17.5°	2617.4	2603.8	2552.8	2484.8	2430.4	2403.1	2403.1	2410.0	2416.8
20°	2579.9	2559.5	2488.2	2406.6	2345.4	2324.9	2331.8	2345.4	2352.2
22.5°	2512.0	2488.2	2406.6	2314.8	2250.2	2233.3	2250.2	2267.2	2274.0
25°	2433.8	2406.6	2311.5	2216.2	2148.2	2127.9	2151.6	2178.8	2189.0
27.5°	2328.4	2297.9	2209.5	2100.7	2032.6	2022.5	2049.7	2080.3	2087.0
30°	2202.6	2168.7	2070.1	1968.2	1906.9	1903.6	1934.1	1961.3	1971.5
32.5°	2049.7	2019.1	1934.1	1832.1	1777.7	1777.7	1808.3	1832.1	1842.3
35°	1886.5	1852.6	1777.7	1692.8	1648.6	1651.9	1682.6	1699.6	1709.8
37.5°	1692.8	1682.6	1624.7	1553.4	1522.8	1529.6	1553.4	1567.0	1577.2
40°	1536.4	1509.3	1471.8	1414.0	1393.7	1400.4	1424.2	1437.8	1444.7
42.5°	1366.5	1349.4	1318.8	1278.1	1264.5	1274.7	1295.0	1305.3	1301.9
45°	1203.3	1199.9	1169.3	1145.5	1138.8	1152.4	1165.8	1176.1	1179.5
47.5°	1084.3	1070.7	1043.5	1026.5	1019.7	1033.4	1047.0	1053.7	1053.7
50°	968.8	955.2	927.9	910.9	904.2	917.8	927.9	934.8	927.9
52.5°	853.2	839.6	815.8	795.4	792.0	798.8	802.2	805.6	812.4
55°	761.4	747.8	720.6	696.8	690.0	693.5	690.0	690.0	686.6
57.5°	673.0	659.4	632.2	605.1	594.8	591.5	581.2	577.9	574.5
60°	594.8	577.9	550.7	520.0	506.4	492.8	475.9	465.6	465.6
62.5°	520.0	503.1	472.5	445.3	424.9	401.2	373.9	360.3	360.3
65°	448.7	435.1	401.2	370.5	343.3	312.7	282.1	275.3	282.1
67.5°	380.7	367.1	333.1	302.5	268.5	231.2	203.9	203.9	210.7
70°	319.5	305.9	275.3	237.9	200.5	163.1	142.8	142.8	142.8
72.5°	261.7	248.2	214.1	180.2	142.8	105.4	95.2	98.5	95.2
75°	203.9	193.8	163.1	125.8	91.8	64.6	61.2	57.7	61.2
77.5°	153.0	142.8	115.6	81.6	51.0	37.4	34.0	34.0	34.0
80°	105.4	95.2	74.8	47.6	27.2	17.0	17.0	17.0	17.0
82.5°	64.6	54.4	40.8	23.8	10.2	10.2	10.2	10.2	10.2
85°	30.6	23.8	17.0	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



Report Generated By 670245859 / DESKTOP-HRDQ47P





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







(END OF REPORT)