

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: P583096

Luminaire Tested: **HC655D010-HM64560930-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583096
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-HM64560930-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4650.0 lumens
Efficiency: N/A
Efficacy: 89.4 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

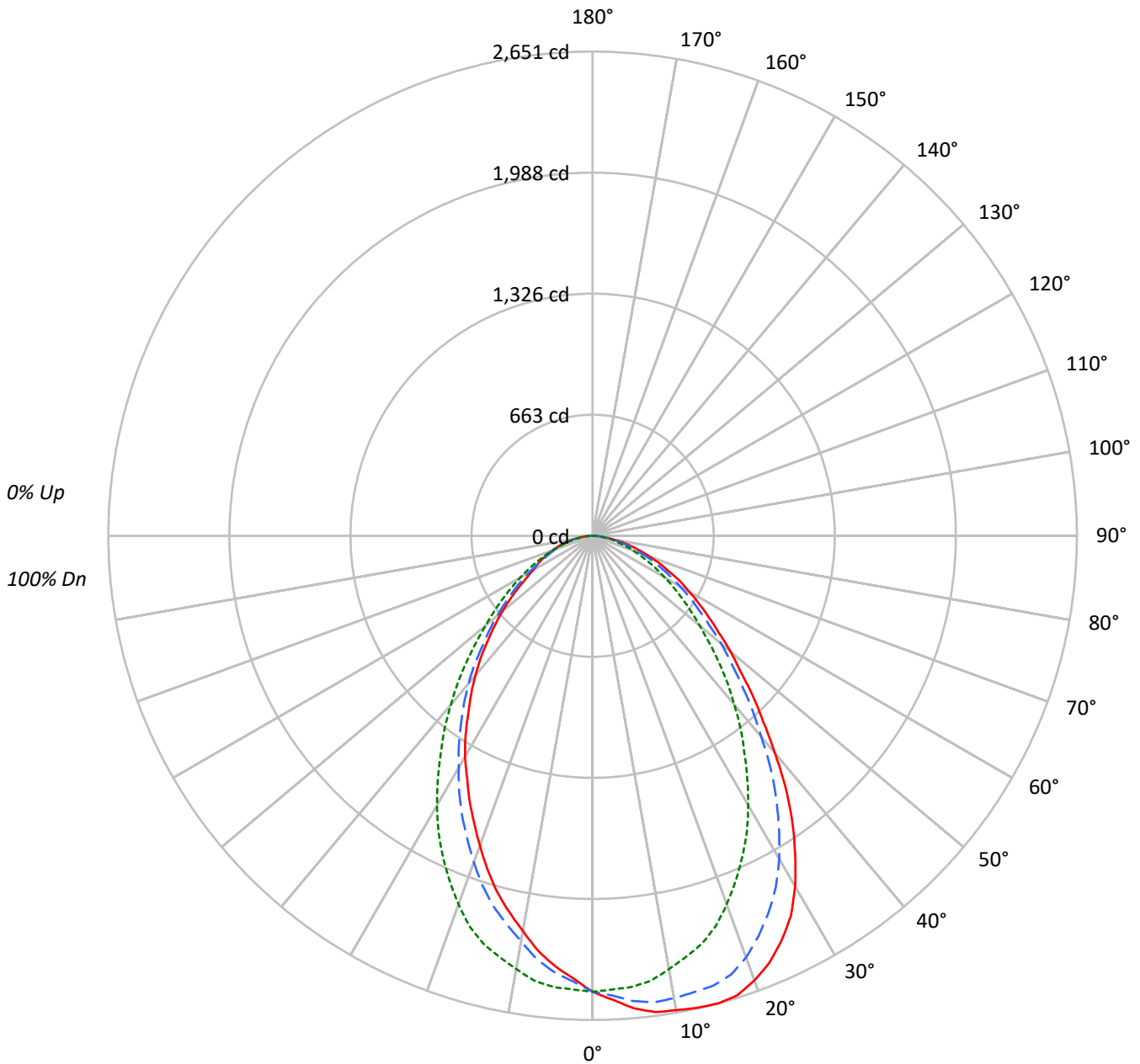
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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								
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°	136842	136842	136842
5°	142912	136440	130161
10°	146813	134093	122315
15°	150449	131187	114603
20°	151120	125247	105254
25°	147946	117261	96532
30°	140363	107827	88469
35°	127488	96905	79371
40°	111080	86319	71412
45°	96119	75535	62766
50°	83955	65047	55017
55°	74167	57154	47205
60°	66672	50095	40885
65°	59708	43584	39654
70°	53326	37170	37170
75°	46259	31327	34885
80°	37126	26519	31822
85°	25348	23210	27487



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.6	5.0
10°-20°	652.2	14.0
20°-30°	908.9	19.5
30°-40°	936.5	20.1
40°-50°	776.1	16.7
50°-60°	557.8	12.0
60°-70°	355.2	7.6
70°-80°	182.4	3.9
80°-90°	46.4	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°	1795.7	38.6
0°-40°	2732.1	58.8
0°-60°	4066.0	87.4
0°-90°	4650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4650.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2496	2496	2496	2496	2496	
5°	2597	2557	2479	2399	2365	249
15°	2651	2550	2312	2100	2019	747
25°	2446	2278	1939	1690	1596	1121
35°	1905	1750	1448	1257	1186	1183
45°	1240	1152	974	850	810	960
55°	776	712	598	531	494	699
65°	460	410	336	292	306	461
75°	218	188	148	154	165	233
85°	40	37	37	40	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°	2496.2	2496.2	2496.2	2496.2	2496.2	2496.2	2496.2	2496.2	2496.2
2.5°	2543.3	2533.3	2519.8	2506.4	2486.2	2462.7	2442.5	2435.8	2425.7
5°	2597.0	2583.7	2556.8	2523.2	2479.4	2435.8	2398.9	2375.3	2365.3
7.5°	2630.6	2613.8	2576.9	2519.8	2456.0	2392.1	2338.4	2304.8	2291.4
10°	2637.4	2620.6	2570.2	2492.9	2408.9	2321.6	2254.4	2214.1	2197.3
12.5°	2647.4	2624.0	2560.1	2469.4	2361.9	2261.1	2177.1	2126.7	2109.9
15°	2650.9	2624.0	2550.1	2439.2	2311.5	2190.6	2099.8	2039.4	2019.3
17.5°	2637.4	2607.2	2519.8	2385.4	2241.0	2113.3	2005.8	1941.9	1915.0
20°	2590.4	2556.8	2456.0	2304.8	2146.9	2012.5	1901.7	1834.5	1804.2
22.5°	2529.8	2486.2	2372.0	2210.7	2046.1	1905.0	1794.1	1726.9	1696.7
25°	2445.9	2405.6	2277.9	2106.6	1938.6	1790.7	1689.9	1619.4	1595.9
27.5°	2348.5	2301.4	2170.5	1999.0	1827.7	1679.9	1582.4	1518.6	1488.3
30°	2217.4	2173.8	2042.7	1871.4	1703.4	1565.6	1464.8	1411.1	1397.6
32.5°	2062.9	2025.9	1898.2	1737.0	1575.8	1448.0	1364.0	1307.0	1293.5
35°	1905.0	1861.3	1750.5	1599.2	1448.0	1333.8	1256.6	1206.2	1186.0
37.5°	1733.7	1693.3	1599.2	1464.8	1330.4	1223.0	1155.8	1112.0	1091.9
40°	1552.2	1521.9	1434.6	1327.1	1206.2	1112.0	1055.0	1018.0	997.9
42.5°	1384.2	1353.9	1293.5	1192.7	1091.9	1007.9	957.5	923.9	907.1
45°	1239.8	1212.8	1152.4	1065.1	974.3	903.8	850.0	826.4	809.6
47.5°	1095.2	1081.9	1028.0	947.5	863.5	803.0	766.0	739.1	725.7
50°	984.4	967.6	917.2	833.2	762.7	715.6	682.0	658.5	645.1
52.5°	870.2	853.4	806.3	735.8	678.7	635.0	601.4	581.2	567.8
55°	776.0	762.7	712.3	648.4	598.0	561.1	530.8	507.3	493.9
57.5°	688.7	675.3	628.3	567.8	524.1	490.5	463.6	443.5	426.7
60°	608.1	598.0	551.0	493.9	456.9	423.3	399.9	383.1	372.9
62.5°	537.6	517.4	477.1	426.7	393.1	366.3	342.7	332.7	339.3
65°	460.3	450.2	409.9	366.3	336.0	309.1	292.3	299.1	305.7
67.5°	396.4	383.1	349.5	309.1	282.3	262.0	252.0	265.5	268.8
70°	332.7	319.2	288.9	255.3	231.9	218.4	218.4	228.4	231.9
72.5°	272.1	262.0	235.2	208.3	191.5	181.5	188.1	194.8	198.3
75°	218.4	208.3	188.1	164.7	147.9	147.9	154.5	161.2	164.7
77.5°	168.0	161.2	141.1	124.3	117.6	117.6	124.3	127.6	131.1
80°	117.6	110.8	100.8	90.7	84.0	90.7	97.5	97.5	100.8
82.5°	77.2	73.9	67.2	60.5	60.5	63.9	67.2	70.5	70.5
85°	40.3	40.3	36.9	33.6	36.9	40.3	40.3	43.7	43.7
87.5°	13.5	13.5	13.5	13.5	16.8	16.8	16.8	16.8	16.8
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)