

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: P583124

Luminaire Tested: **HC655D010-HM64560940-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583124
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-HM64560940-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5224.9 lumens
Efficiency: N/A
Efficacy: 100.5 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

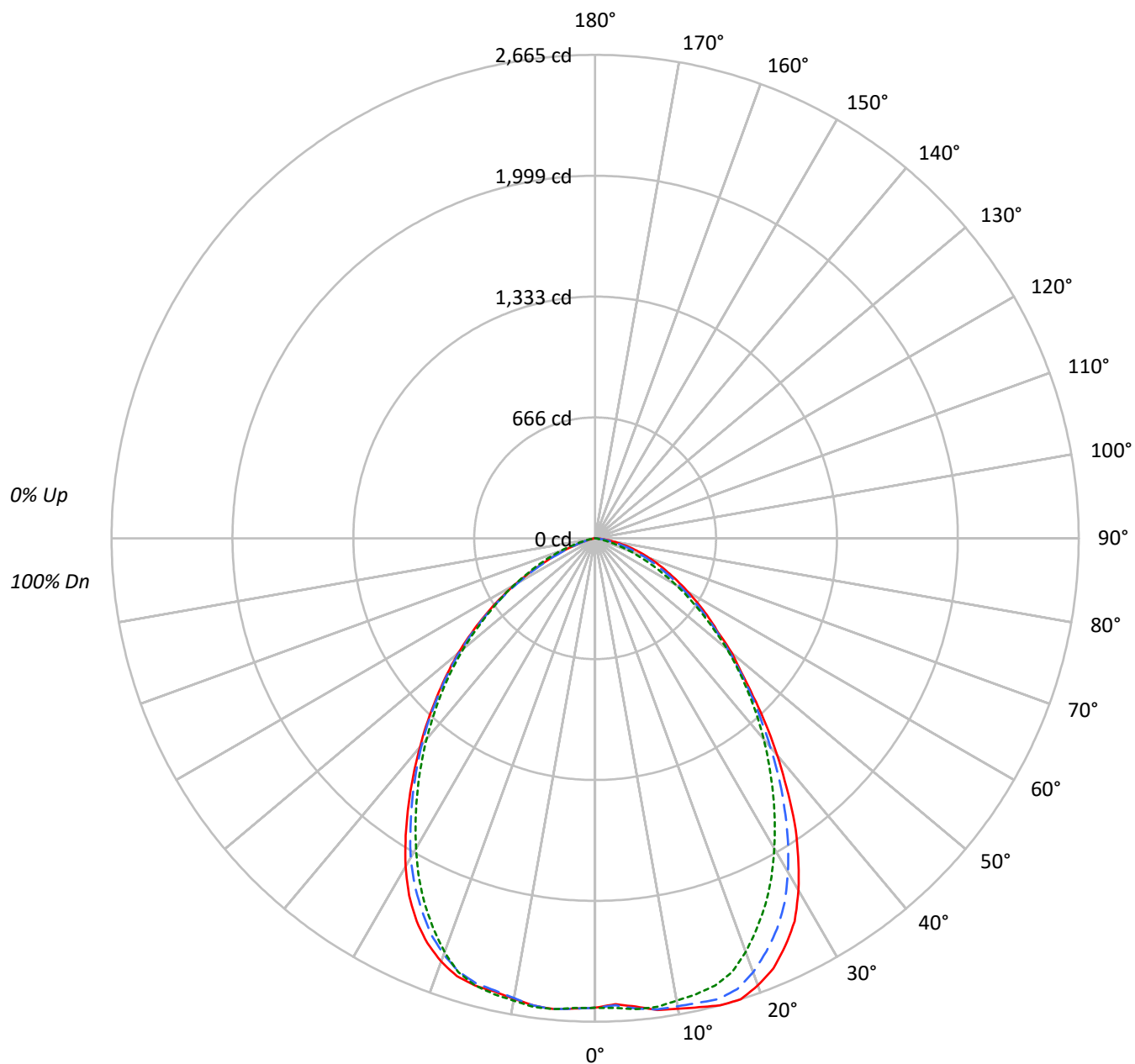
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	141875	141875	141875
5°	142609	143385	143385
10°	146602	144063	143479
15°	151261	144887	144887
20°	153027	141570	144843
25°	149966	134482	140845
30°	141845	124975	132299
35°	128372	114291	119926
40°	111674	103394	107408
45°	95429	92165	95429
50°	83741	80756	84040
55°	73068	68041	70726
60°	64589	56531	55752
65°	57321	44583	38214
70°	50585	31480	23033
75°	43082	17813	11141
80°	32106	5525	3315
85°	17612	2201	2201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.3	4.8
10°-20°	726.3	13.9
20°-30°	1060.8	20.3
30°-40°	1112.5	21.3
40°-50°	937.3	17.9
50°-60°	656.7	12.6
60°-70°	352.1	6.7
70°-80°	118.1	2.3
80°-90°	12.9	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°	2035.4	39.0
0°-40°	3147.9	60.2
0°-60°	4741.9	90.8
0°-90°	5224.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5224.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2588	2588	2588	2588	2588	
5°	2592	2602	2606	2606	2606	249
15°	2665	2630	2553	2539	2553	752
25°	2479	2374	2223	2262	2328	1136
35°	1918	1820	1708	1757	1792	1191
45°	1231	1210	1189	1220	1231	959
55°	764	740	712	726	740	688
65°	442	403	344	284	295	441
75°	203	158	84	53	53	216
85°	28	14	4	4	4	39
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°	2588.0	2588.0	2588.0	2588.0	2588.0	2588.0	2588.0	2588.0	2588.0
2.5°	2570.4	2570.4	2577.5	2584.5	2591.5	2591.5	2595.0	2598.5	2595.0
5°	2591.5	2591.5	2602.0	2605.6	2605.6	2602.0	2605.6	2605.6	2605.6
7.5°	2623.1	2616.1	2619.5	2612.5	2605.6	2602.0	2598.5	2598.5	2598.5
10°	2633.6	2626.6	2619.5	2605.6	2588.0	2577.5	2574.0	2577.5	2577.5
12.5°	2647.6	2640.6	2623.1	2595.0	2574.0	2556.5	2552.9	2559.9	2559.9
15°	2665.2	2658.1	2630.0	2584.5	2552.9	2535.4	2539.0	2545.9	2552.9
17.5°	2665.2	2651.1	2605.6	2545.9	2507.4	2489.9	2503.8	2521.3	2531.9
20°	2623.1	2609.0	2545.9	2472.2	2426.7	2416.2	2440.8	2472.2	2482.8
22.5°	2567.0	2539.0	2465.3	2377.6	2328.5	2328.5	2363.5	2402.1	2416.2
25°	2479.3	2458.3	2374.0	2272.4	2223.3	2219.8	2261.9	2314.4	2328.5
27.5°	2381.1	2353.0	2261.9	2156.6	2104.1	2107.5	2153.2	2205.7	2219.8
30°	2240.8	2205.7	2125.1	2023.4	1974.3	1988.4	2033.9	2072.5	2090.0
32.5°	2083.0	2051.4	1977.9	1883.1	1841.1	1855.1	1893.6	1928.8	1942.7
35°	1918.2	1883.1	1820.0	1735.8	1707.8	1721.9	1756.9	1784.9	1792.0
37.5°	1732.4	1707.8	1662.2	1595.6	1574.6	1592.1	1620.1	1637.6	1644.7
40°	1560.5	1539.4	1500.9	1451.8	1444.8	1458.8	1486.9	1497.4	1500.9
42.5°	1392.2	1374.6	1350.2	1315.0	1315.0	1329.1	1353.6	1360.6	1364.1
45°	1230.9	1220.4	1209.9	1181.8	1188.8	1206.3	1220.4	1230.9	1230.9
47.5°	1090.6	1094.2	1080.1	1059.0	1066.0	1083.6	1094.2	1104.7	1104.7
50°	981.9	971.4	957.4	936.3	946.9	960.8	974.9	981.9	985.4
52.5°	855.7	852.1	841.6	817.1	824.1	831.1	845.1	855.7	859.2
55°	764.5	753.9	740.0	711.9	711.9	718.9	725.9	732.9	740.0
57.5°	676.8	666.3	645.2	613.7	610.2	610.2	606.6	613.7	624.2
60°	589.1	585.6	554.1	526.0	515.6	505.0	490.9	494.5	508.5
62.5°	512.0	505.0	476.9	441.9	420.8	403.3	385.8	382.2	396.3
65°	441.9	434.9	403.3	368.3	343.7	312.1	284.0	284.0	294.6
67.5°	378.7	364.7	336.7	298.1	266.5	228.0	199.9	206.9	210.5
70°	315.6	305.1	273.5	234.9	196.4	157.8	140.3	143.7	143.7
72.5°	259.6	245.5	213.9	175.3	136.8	101.7	94.6	91.2	91.2
75°	203.4	189.4	157.8	119.2	84.1	59.6	52.6	52.6	52.6
77.5°	147.3	136.8	108.7	73.7	45.5	28.0	24.6	21.1	21.1
80°	101.7	91.2	66.6	38.6	17.5	10.5	10.5	10.5	10.5
82.5°	59.6	49.1	31.6	17.5	7.0	3.5	3.5	3.5	3.5
85°	28.0	21.1	14.1	7.0	3.5	3.5	3.5	3.5	3.5
87.5°	3.5	3.5	3.5	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)