

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: P583034

Luminaire Tested: **HC655D010-HM64560835-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583034
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-HM64560835-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5686.5 lumens
Efficiency: N/A
Efficacy: 109.4 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

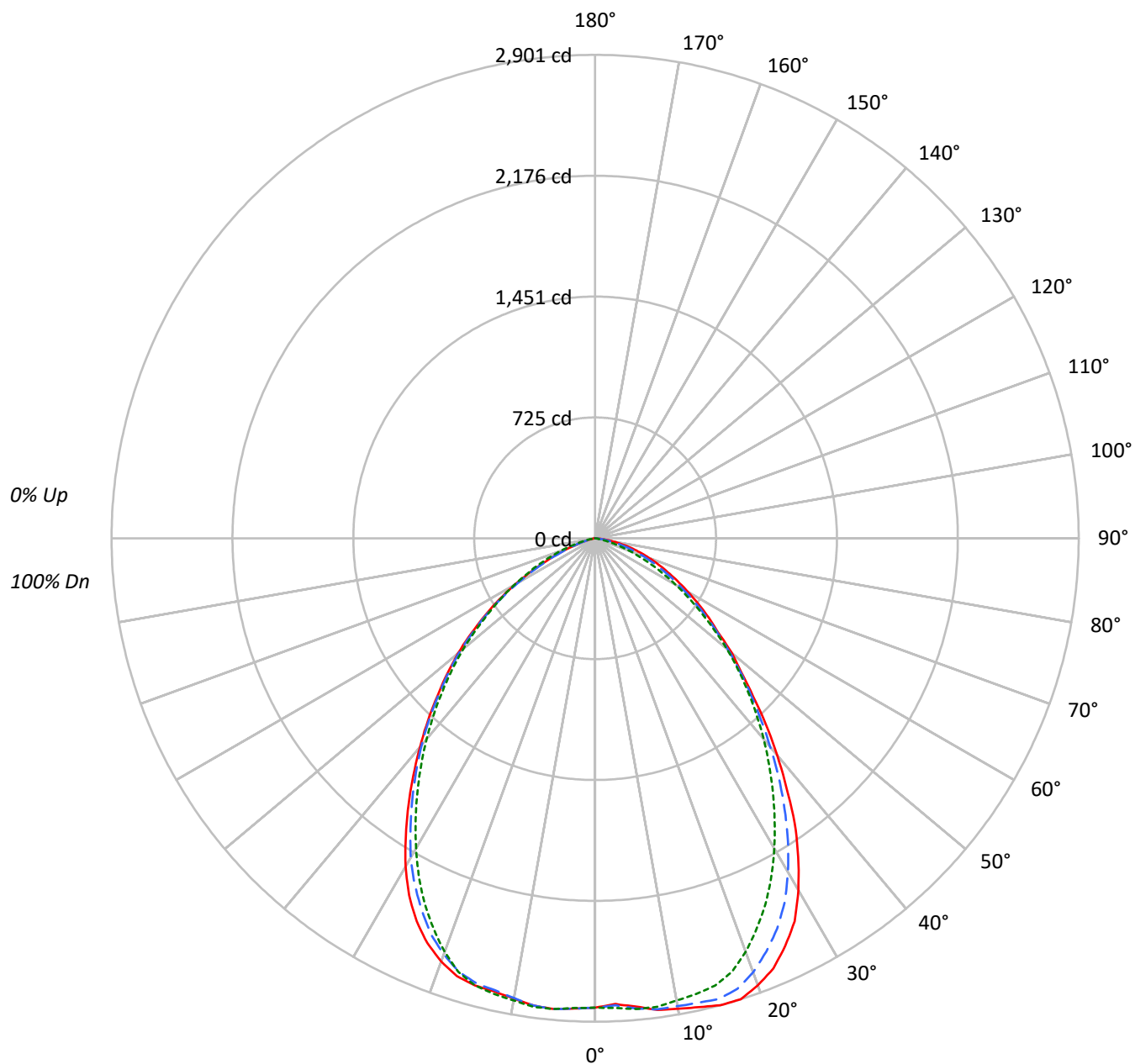
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583034

CATALOG NUMBER: HC655D010-HM64560835-61RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P583034

CATALOG NUMBER: HC655D010-HM64560835-61RWWC

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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	104	101	108	105	102	99		101	98	96			97	95	93			94
2	103	96	90	86	100	94	89	85		91	86	83			88	84	81			85
3	95	86	79	74	93	85	78	73		82	76	72			79	75	71			77
4	88	78	70	64	86	76	69	64		74	68	63			72	67	62			70
5	82	70	62	57	80	69	62	56		67	61	56			65	60	55			64
6	76	64	56	50	74	63	56	50		62	55	50			60	54	49			58
7	71	59	51	45	69	58	50	45		56	50	45			55	49	45			54
8	66	54	46	41	65	53	46	41		52	45	41			51	45	40			50
9	62	50	42	37	61	49	42	37		48	42	37			47	41	37			46
10	59	46	39	34	57	46	39	34		45	38	34			44	38	34			43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	154406	154406	154406
5°	155211	156053	156053
10°	159555	156788	156154
15°	164621	157691	157691
20°	166544	154072	157636
25°	163213	146361	153287
30°	154378	136015	143991
35°	139709	124390	130520
40°	121542	112525	116898
45°	103856	100305	103856
50°	91136	87886	91468
55°	79519	74043	76967
60°	70301	61519	60675
65°	62380	48527	41587
70°	55057	34269	25084
75°	46873	19402	12137
80°	34948	5998	3631
85°	19184	2390	2390



TEST NUMBER: P583034

CATALOG NUMBER: HC655D010-HM64560835-61RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.2	4.8
10°-20°	790.5	13.9
20°-30°	1154.5	20.3
30°-40°	1210.8	21.3
40°-50°	1020.1	17.9
50°-60°	714.7	12.6
60°-70°	383.2	6.7
70°-80°	128.5	2.3
80°-90°	14.0	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°	2215.2	39.0
0°-40°	3426.0	60.2
0°-60°	5160.8	90.8
0°-90°	5686.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5686.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2817	2817	2817	2817	2817	
5°	2820	2832	2836	2836	2836	271
15°	2901	2862	2778	2763	2778	818
25°	2698	2584	2420	2462	2534	1236
35°	2088	1981	1859	1912	1950	1296
45°	1340	1317	1294	1328	1340	1044
55°	832	805	775	790	805	749
65°	481	439	374	309	321	480
75°	221	172	92	57	57	235
85°	30	15	4	4	4	42
90°	0	0	0	0	0	



TEST NUMBER: P583034

CATALOG NUMBER: HC655D010-HM64560835-61RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2816.6	2816.6	2816.6	2816.6	2816.6	2816.6	2816.6	2816.6	2816.6
2.5°	2797.6	2797.6	2805.2	2812.8	2820.5	2820.5	2824.3	2828.1	2824.3
5°	2820.5	2820.5	2831.9	2835.8	2835.8	2831.9	2835.8	2835.8	2835.8
7.5°	2854.8	2847.1	2851.0	2843.3	2835.8	2831.9	2828.1	2828.1	2828.1
10°	2866.3	2858.6	2851.0	2835.8	2816.6	2805.2	2801.3	2805.2	2805.2
12.5°	2881.6	2873.9	2854.8	2824.3	2801.3	2782.3	2778.5	2786.1	2786.1
15°	2900.6	2893.0	2862.4	2812.8	2778.5	2759.3	2763.3	2770.8	2778.5
17.5°	2900.6	2885.3	2835.8	2770.8	2728.8	2709.8	2725.0	2744.1	2755.6
20°	2854.8	2839.6	2770.8	2690.7	2641.0	2629.6	2656.3	2690.7	2702.1
22.5°	2793.8	2763.3	2683.0	2587.7	2534.2	2534.2	2572.4	2614.3	2629.6
25°	2698.3	2675.5	2583.8	2473.2	2419.7	2415.9	2461.7	2519.0	2534.2
27.5°	2591.5	2561.0	2461.7	2347.2	2289.9	2293.7	2343.4	2400.7	2415.9
30°	2438.8	2400.7	2312.9	2202.2	2148.7	2164.1	2213.6	2255.6	2274.7
32.5°	2267.1	2232.7	2152.6	2049.5	2003.8	2019.0	2060.9	2099.1	2114.4
35°	2087.6	2049.5	1980.8	1889.3	1858.7	1874.0	1912.1	1942.6	1950.3
37.5°	1885.3	1858.7	1809.0	1736.5	1713.7	1732.7	1763.3	1782.3	1790.0
40°	1698.4	1675.5	1633.5	1580.0	1572.4	1587.7	1618.2	1629.7	1633.5
42.5°	1515.2	1496.1	1469.4	1431.2	1431.2	1446.5	1473.2	1480.9	1484.7
45°	1339.6	1328.2	1316.7	1286.2	1293.8	1312.9	1328.2	1339.6	1339.6
47.5°	1186.9	1190.8	1175.5	1152.6	1160.3	1179.3	1190.8	1202.3	1202.3
50°	1068.6	1057.2	1042.0	1019.0	1030.5	1045.8	1061.0	1068.6	1072.5
52.5°	931.3	927.5	916.0	889.3	897.0	904.5	919.8	931.3	935.0
55°	832.0	820.5	805.3	774.7	774.7	782.4	790.0	797.7	805.3
57.5°	736.7	725.2	702.2	667.9	664.1	664.1	660.2	667.9	679.4
60°	641.2	637.4	603.0	572.5	561.1	549.6	534.4	538.1	553.4
62.5°	557.2	549.6	519.1	480.9	457.9	438.9	419.8	416.1	431.3
65°	480.9	473.2	438.9	400.8	374.1	339.6	309.1	309.1	320.6
67.5°	412.2	396.9	366.4	324.4	290.1	248.1	217.6	225.1	229.0
70°	343.5	332.1	297.6	255.8	213.8	171.8	152.6	156.5	156.5
72.5°	282.4	267.1	232.8	190.8	148.8	110.7	103.0	99.3	99.3
75°	221.3	206.1	171.8	129.8	91.6	64.8	57.3	57.3	57.3
77.5°	160.3	148.8	118.3	80.2	49.6	30.5	26.7	23.0	23.0
80°	110.7	99.3	72.5	42.0	19.0	11.5	11.5	11.5	11.5
82.5°	64.8	53.5	34.3	19.0	7.7	3.8	3.8	3.8	3.8
85°	30.5	23.0	15.3	7.7	3.8	3.8	3.8	3.8	3.8
87.5°	3.8	3.8	3.8	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



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)