

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: P583070

Luminaire Tested: **HC655D010-HM64560927-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583070
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-HM64560927-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4190.3 lumens
Efficiency: N/A
Efficacy: 80.6 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

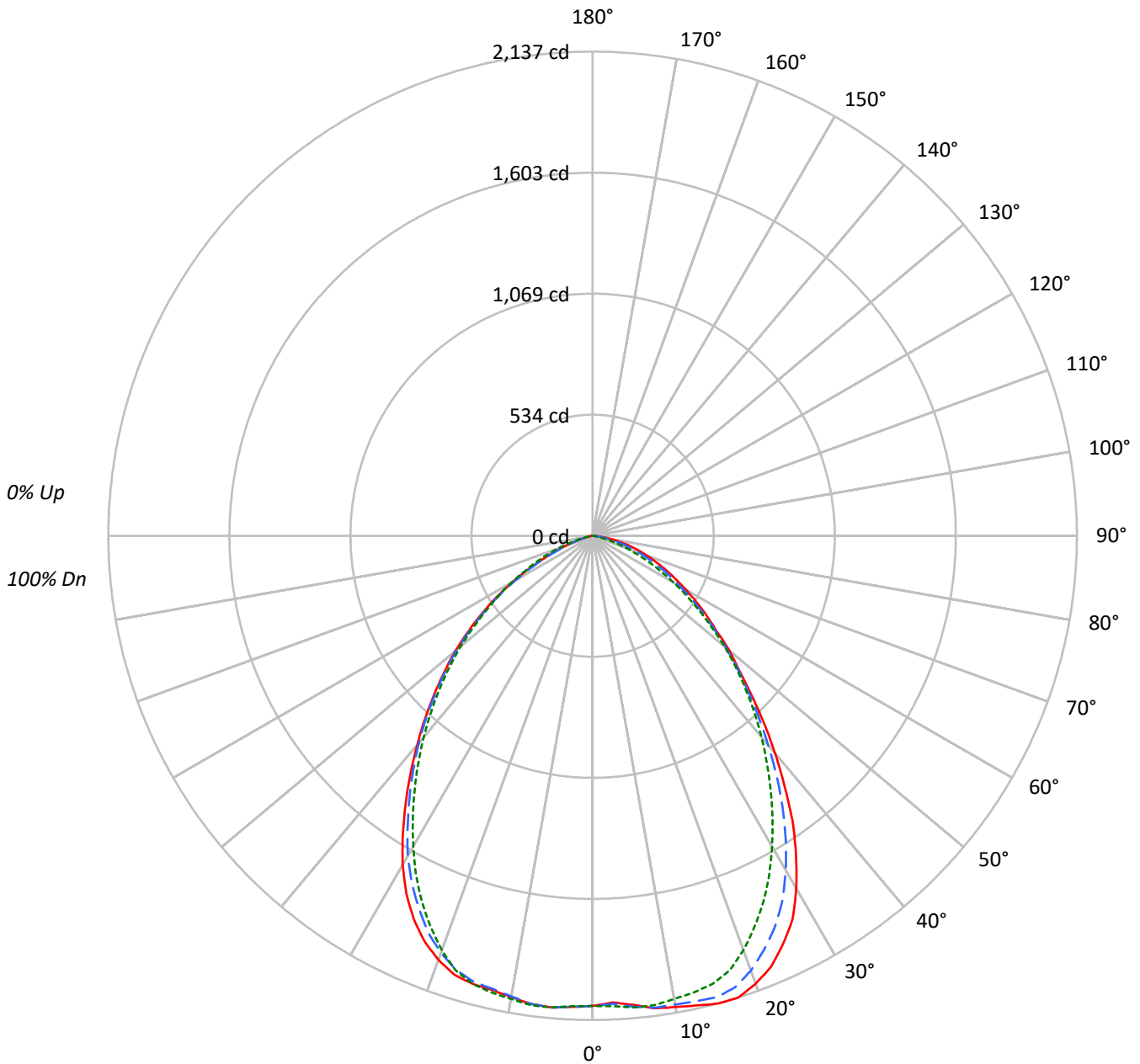
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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	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°	113785	113785	113785
5°	114373	114995	114995
10°	117572	115540	115072
15°	121306	116198	116198
20°	122727	113544	116163
25°	120273	107855	112960
30°	113764	100231	106105
35°	102954	91665	96175
40°	89561	82920	86140
45°	76535	73915	76535
50°	67162	64765	67392
55°	58598	54564	56715
60°	51805	45336	44711
65°	45971	35750	30639
70°	40584	25245	18481
75°	34546	14297	8938
80°	25729	4451	2652
85°	14152	1761	1761



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.1	4.8
10°-20°	582.5	13.9
20°-30°	850.8	20.3
30°-40°	892.3	21.3
40°-50°	751.7	17.9
50°-60°	526.7	12.6
60°-70°	282.3	6.7
70°-80°	94.7	2.3
80°-90°	10.3	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°	1632.4	39.0
0°-40°	2524.6	60.2
0°-60°	3803.0	90.8
0°-90°	4190.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4190.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2076	2076	2076	2076	2076	
5°	2078	2087	2090	2090	2090	200
15°	2137	2109	2047	2036	2047	603
25°	1988	1904	1783	1814	1868	911
35°	1538	1460	1370	1409	1437	955
45°	987	970	953	979	987	769
55°	613	593	571	582	593	552
65°	354	323	276	228	236	354
75°	163	127	68	42	42	173
85°	22	11	3	3	3	31
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°	2075.6	2075.6	2075.6	2075.6	2075.6	2075.6	2075.6	2075.6	2075.6
2.5°	2061.5	2061.5	2067.2	2072.7	2078.4	2078.4	2081.3	2084.0	2081.3
5°	2078.4	2078.4	2086.8	2089.7	2089.7	2086.8	2089.7	2089.7	2089.7
7.5°	2103.7	2098.1	2100.9	2095.3	2089.7	2086.8	2084.0	2084.0	2084.0
10°	2112.1	2106.6	2100.9	2089.7	2075.6	2067.2	2064.3	2067.2	2067.2
12.5°	2123.4	2117.8	2103.7	2081.3	2064.3	2050.3	2047.4	2053.1	2053.1
15°	2137.4	2131.9	2109.3	2072.7	2047.4	2033.5	2036.2	2041.9	2047.4
17.5°	2137.4	2126.2	2089.7	2041.9	2010.9	1996.8	2008.1	2022.1	2030.6
20°	2103.7	2092.5	2041.9	1982.8	1946.3	1937.8	1957.5	1982.8	1991.2
22.5°	2058.7	2036.2	1977.1	1906.9	1867.5	1867.5	1895.6	1926.5	1937.8
25°	1988.4	1971.5	1904.0	1822.4	1783.1	1780.3	1814.0	1856.2	1867.5
27.5°	1909.6	1887.1	1814.0	1729.7	1687.4	1690.3	1726.8	1769.1	1780.3
30°	1797.2	1769.1	1704.3	1622.8	1583.4	1594.7	1631.2	1662.1	1676.2
32.5°	1670.6	1645.3	1586.2	1510.3	1476.5	1487.7	1518.7	1546.9	1558.1
35°	1538.4	1510.3	1459.7	1392.2	1369.7	1380.9	1409.1	1431.5	1437.1
37.5°	1389.3	1369.7	1333.1	1279.7	1262.7	1276.8	1299.4	1313.4	1319.0
40°	1251.5	1234.7	1203.7	1164.3	1158.7	1170.0	1192.5	1200.9	1203.7
42.5°	1116.5	1102.4	1082.8	1054.6	1054.6	1065.9	1085.6	1091.2	1094.0
45°	987.2	978.7	970.3	947.8	953.4	967.5	978.7	987.2	987.2
47.5°	874.7	877.4	866.2	849.4	855.0	869.0	877.4	885.9	885.9
50°	787.5	779.0	767.8	751.0	759.4	770.6	781.8	787.5	790.2
52.5°	686.3	683.4	675.0	655.3	660.9	666.5	677.9	686.3	689.1
55°	613.1	604.6	593.4	570.9	570.9	576.6	582.2	587.8	593.4
57.5°	542.8	534.4	517.4	492.1	489.4	489.4	486.6	492.1	500.6
60°	472.5	469.7	444.3	421.9	413.5	404.9	393.7	396.5	407.8
62.5°	410.6	404.9	382.5	354.4	337.5	323.4	309.4	306.5	317.8
65°	354.4	348.7	323.4	295.3	275.6	250.3	227.8	227.8	236.2
67.5°	303.8	292.4	270.0	239.1	213.8	182.8	160.3	166.0	168.7
70°	253.2	244.6	219.3	188.5	157.5	126.6	112.5	115.3	115.3
72.5°	208.1	196.9	171.5	140.7	109.7	81.5	75.9	73.1	73.1
75°	163.1	151.9	126.6	95.6	67.5	47.8	42.2	42.2	42.2
77.5°	118.2	109.7	87.2	59.0	36.6	22.5	19.6	16.9	16.9
80°	81.5	73.1	53.5	31.0	14.1	8.4	8.4	8.4	8.4
82.5°	47.8	39.4	25.3	14.1	5.7	2.8	2.8	2.8	2.8
85°	22.5	16.9	11.2	5.7	2.8	2.8	2.8	2.8	2.8
87.5°	2.8	2.8	2.8	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



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







(END OF REPORT)