

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: P582305

Luminaire Tested: **HC635D010-HM63040830-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582305  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC635D010-HM63040830-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3739.3 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

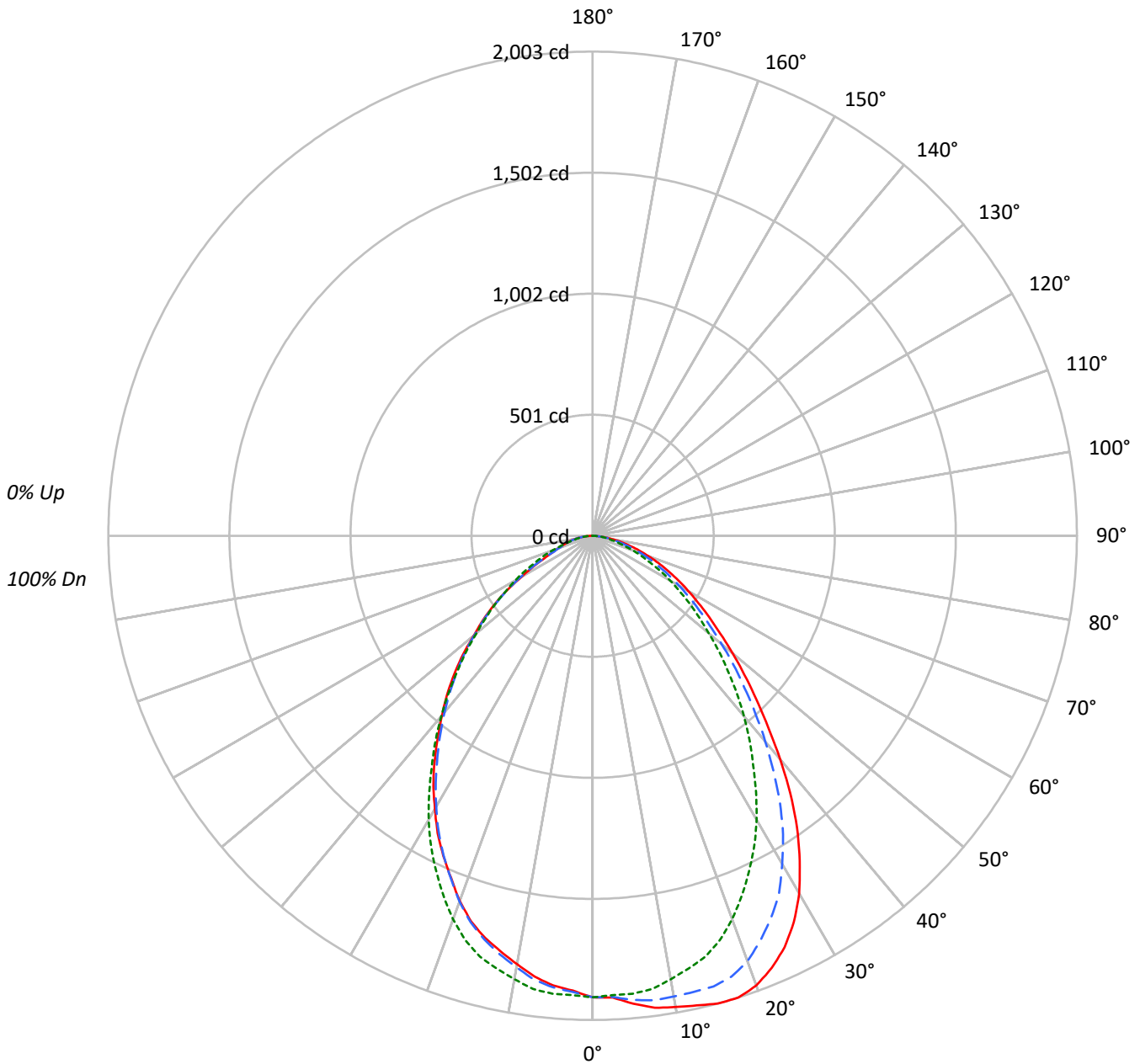
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76																			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66																			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58																			
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52																			
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	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	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	104674	104674	104674
5°	106939	104644	102779
10°	110207	103672	100193
15°	113695	102293	97708
20°	115498	98458	93738
25°	113601	92618	88354
30°	108156	85861	82557
35°	98631	77504	76286
40°	86247	69623	69258
45°	74217	61278	62689
50°	64510	53388	54497
55°	56352	46870	47367
60°	50051	40611	37179
65°	44661	34180	28434
70°	39302	28018	23834
75°	33699	22092	22642
80°	27181	18942	22257
85°	18052	16417	19687



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.8	4.8
10°-20°	514.7	13.8
20°-30°	734.7	19.6
30°-40°	769.6	20.6
40°-50°	647.9	17.3
50°-60°	461.2	12.3
60°-70°	269.9	7.2
70°-80°	127.7	3.4
80°-90°	32.9	0.9
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°	1430.1	38.2
0°-40°	2199.7	58.8
0°-60°	3308.8	88.5
0°-90°	3739.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3739.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1909	1909	1909	1909	1909	
5°	1943	1928	1902	1876	1868	187
15°	2003	1930	1802	1729	1722	565
25°	1878	1745	1531	1458	1461	860
35°	1474	1351	1158	1119	1140	915
45°	957	887	790	793	809	743
55°	590	540	490	490	496	531
65°	344	305	264	222	219	343
75°	159	133	104	102	107	171
85°	29	24	26	31	31	37
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°	1909.4	1909.4	1909.4	1909.4	1909.4	1909.4	1909.4	1909.4	1909.4
2.5°	1912.0	1912.0	1909.4	1906.8	1901.6	1893.8	1888.6	1883.3	1883.3
5°	1943.3	1938.2	1927.7	1914.6	1901.6	1885.9	1875.5	1867.7	1867.7
7.5°	1969.4	1958.9	1938.2	1914.6	1891.1	1870.2	1852.0	1841.5	1839.0
10°	1979.8	1966.7	1935.5	1898.9	1862.4	1833.7	1812.9	1799.9	1799.9
12.5°	1990.3	1974.6	1932.9	1880.7	1833.7	1794.6	1773.7	1763.3	1760.8
15°	2003.3	1982.4	1930.2	1865.1	1802.4	1758.1	1729.4	1721.6	1721.6
17.5°	2003.3	1977.2	1912.0	1831.1	1753.0	1703.4	1677.2	1669.4	1672.1
20°	1979.8	1951.1	1872.9	1773.7	1687.7	1635.6	1609.4	1604.2	1606.8
22.5°	1935.5	1901.6	1812.9	1705.9	1612.1	1557.2	1533.8	1533.8	1531.2
25°	1878.1	1841.5	1745.0	1632.9	1531.2	1476.4	1458.2	1460.7	1460.7
27.5°	1802.4	1765.9	1669.4	1549.4	1447.7	1392.9	1379.9	1385.1	1387.7
30°	1708.6	1669.4	1567.7	1450.3	1356.4	1301.7	1293.9	1301.7	1304.2
32.5°	1593.8	1565.1	1466.0	1346.0	1257.3	1210.3	1207.7	1215.5	1225.9
35°	1473.8	1442.5	1351.2	1241.7	1158.1	1119.0	1119.0	1132.1	1139.9
37.5°	1343.3	1312.1	1228.6	1137.2	1066.9	1030.3	1035.6	1048.5	1051.2
40°	1205.2	1181.6	1111.2	1032.9	972.9	944.2	952.0	965.1	967.8
42.5°	1074.7	1053.8	996.4	926.0	881.7	860.8	871.3	886.9	892.1
45°	957.3	933.8	886.9	826.9	790.4	779.9	793.0	803.4	808.6
47.5°	850.4	829.5	790.4	735.6	709.5	704.3	717.4	722.5	727.7
50°	756.4	735.6	696.5	646.9	626.0	626.0	636.5	641.7	639.0
52.5°	665.2	646.9	610.3	568.7	555.6	555.6	563.4	566.0	571.2
55°	589.6	571.2	540.0	500.9	490.4	485.1	490.4	490.4	495.6
57.5°	519.1	503.4	474.7	438.2	425.1	420.0	417.3	414.8	420.0
60°	456.5	443.5	412.2	380.8	370.4	357.3	346.9	336.4	339.1
62.5°	399.1	386.0	357.3	326.1	315.7	297.4	284.3	271.3	276.5
65°	344.3	331.3	305.2	279.1	263.5	242.6	221.7	213.9	219.2
67.5°	294.8	284.3	258.3	232.1	219.2	195.6	174.8	174.8	177.4
70°	245.2	234.8	213.9	190.5	174.8	153.9	146.1	148.7	148.7
72.5°	200.8	193.0	172.1	151.2	135.6	122.7	122.7	125.2	127.8
75°	159.1	153.9	133.0	114.7	104.3	96.5	101.8	104.3	106.9
77.5°	122.7	114.7	99.1	86.1	78.3	80.9	86.1	88.7	91.3
80°	86.1	83.4	70.5	62.6	60.0	62.6	67.8	70.5	70.5
82.5°	54.7	52.2	44.3	41.8	41.8	44.3	49.6	49.6	49.6
85°	28.7	26.1	23.5	23.5	26.1	28.7	31.3	31.3	31.3
87.5°	10.4	7.8	10.4	10.4	13.1	13.1	13.1	13.1	13.1
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)