

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: P593248

Luminaire Tested: **HC635D010-HM63040850-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593248
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: HC635D010-HM63040850-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3937.8 lumens
Efficiency: N/A
Efficacy: 116.8 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

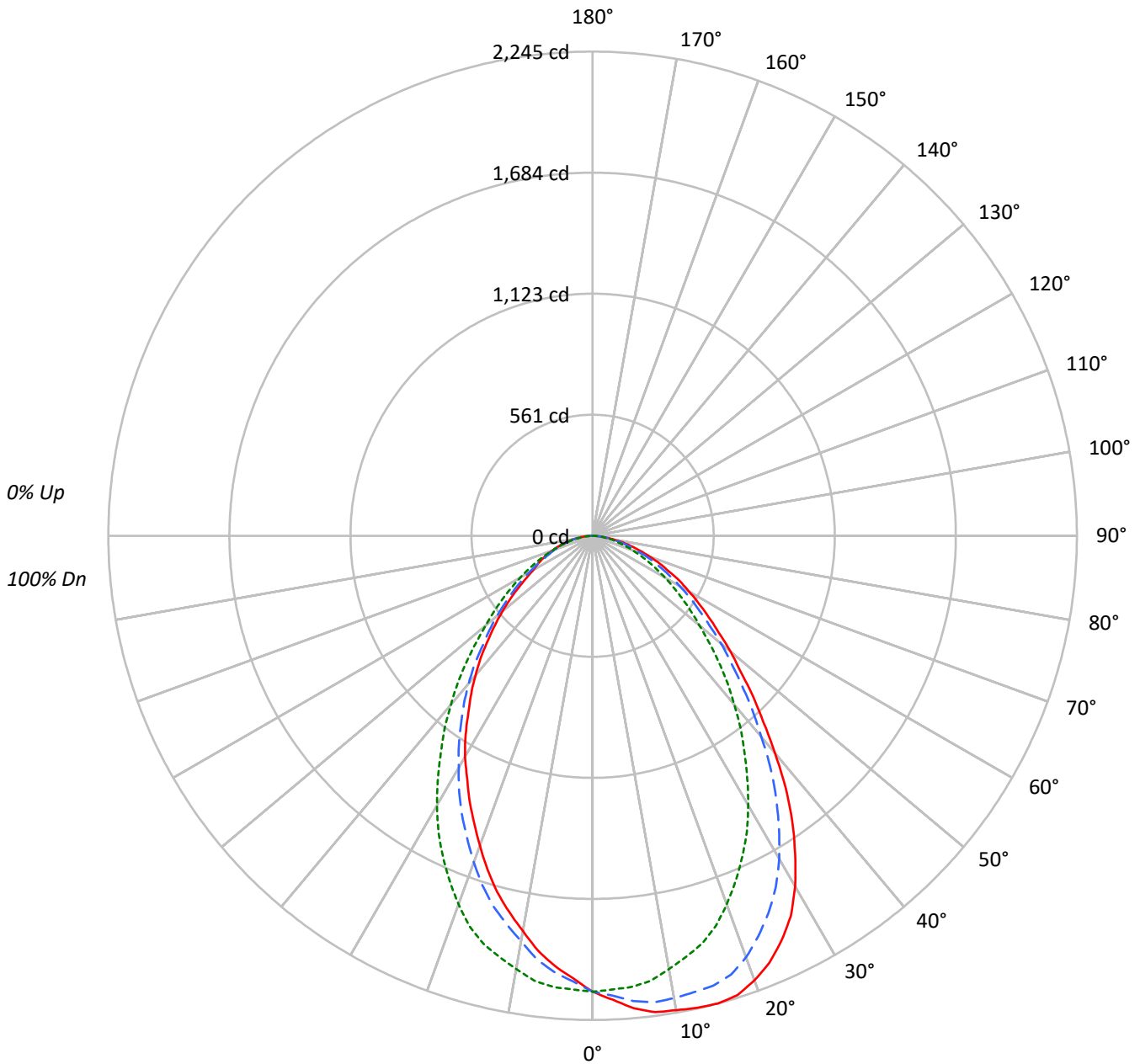
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P593248

CATALOG NUMBER: HC635D010-HM63040850-61WWW

Luminous Intensity Polar Plot





TEST NUMBER: P593248

CATALOG NUMBER: HC635D010-HM63040850-61WWW

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	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°	115884	115884	115884
5°	121027	115551	110224
10°	124324	113558	103583
15°	127401	111096	97044
20°	127971	106065	89129
25°	125287	99296	81749
30°	118866	91312	74923
35°	107967	82068	67211
40°	94069	73094	60470
45°	81388	63968	53161
50°	71094	55077	46591
55°	62822	48409	39979
60°	56465	42431	34624
65°	50563	36904	33596
70°	45152	31464	31464
75°	39185	26518	29547
80°	31412	22478	26929
85°	21511	19687	23273



TEST NUMBER: P593248

CATALOG NUMBER: HC635D010-HM63040850-61WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.7	5.0
10°-20°	552.3	14.0
20°-30°	769.7	19.5
30°-40°	793.0	20.1
40°-50°	657.2	16.7
50°-60°	472.3	12.0
60°-70°	300.8	7.6
70°-80°	154.5	3.9
80°-90°	39.3	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°	1520.6	38.6
0°-40°	2313.7	58.8
0°-60°	3443.2	87.4
0°-90°	3937.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3937.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2114	2114	2114	2114	2114	
5°	2199	2165	2100	2031	2003	211
15°	2245	2160	1958	1778	1710	633
25°	2071	1929	1642	1431	1352	949
35°	1613	1482	1226	1064	1004	1002
45°	1050	976	825	720	686	813
55°	657	603	506	450	418	592
65°	390	347	284	248	259	390
75°	185	159	125	131	140	197
85°	34	31	31	34	37	44
90°	0	0	0	0	0	



TEST NUMBER: P593248

CATALOG NUMBER: HC635D010-HM63040850-61WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9
2.5°	2153.8	2145.3	2133.9	2122.5	2105.4	2085.5	2068.4	2062.8	2054.2
5°	2199.3	2187.9	2165.1	2136.7	2099.8	2062.8	2031.4	2011.6	2003.0
7.5°	2227.8	2213.6	2182.3	2133.9	2079.8	2025.8	1980.3	1951.8	1940.4
10°	2233.4	2219.2	2176.6	2111.1	2040.0	1966.0	1909.1	1874.9	1860.8
12.5°	2242.0	2222.1	2168.1	2091.1	2000.1	1914.8	1843.6	1801.0	1786.8
15°	2244.8	2222.1	2159.5	2065.6	1957.5	1855.1	1778.3	1727.0	1709.9
17.5°	2233.4	2207.8	2133.9	2020.1	1897.8	1789.6	1698.6	1644.5	1621.8
20°	2193.6	2165.1	2079.8	1951.8	1818.1	1704.3	1610.3	1553.5	1527.8
22.5°	2142.4	2105.4	2008.6	1872.1	1732.6	1613.3	1519.3	1462.4	1436.8
25°	2071.3	2037.1	1929.1	1783.9	1641.6	1516.5	1431.1	1371.3	1351.5
27.5°	1988.8	1948.9	1838.0	1692.9	1547.8	1422.6	1340.1	1286.0	1260.4
30°	1877.8	1840.8	1729.8	1584.8	1442.5	1325.8	1240.5	1195.0	1183.6
32.5°	1746.9	1715.6	1607.5	1471.0	1334.3	1226.3	1155.1	1106.8	1095.3
35°	1613.3	1576.3	1482.3	1354.3	1226.3	1129.5	1064.1	1021.4	1004.3
37.5°	1468.1	1434.0	1354.3	1240.5	1126.7	1035.6	978.8	941.8	924.7
40°	1314.5	1288.8	1214.8	1123.8	1021.4	941.8	893.3	862.1	845.0
42.5°	1172.3	1146.6	1095.3	1010.0	924.7	853.5	810.8	782.5	768.2
45°	1049.8	1027.1	975.8	901.9	825.1	765.3	719.8	700.0	685.7
47.5°	927.5	916.1	870.6	802.3	731.2	680.0	648.7	626.0	614.5
50°	833.6	819.4	776.8	705.6	645.8	606.0	577.5	557.7	546.3
52.5°	736.8	722.7	682.8	623.1	574.7	537.8	509.3	492.2	480.8
55°	657.3	645.8	603.2	549.1	506.5	475.1	449.5	429.6	418.3
57.5°	583.3	571.8	532.0	480.8	443.8	415.3	392.6	375.5	361.3
60°	515.0	506.5	466.6	418.3	387.0	358.5	338.5	324.3	315.8
62.5°	455.2	438.2	404.0	361.3	332.8	310.1	290.2	281.7	287.3
65°	389.8	381.3	347.1	310.1	284.5	261.8	247.5	253.2	259.0
67.5°	335.7	324.3	296.0	261.8	239.0	222.0	213.4	224.8	227.6
70°	281.7	270.3	244.7	216.2	196.3	185.0	185.0	193.5	196.3
72.5°	230.5	222.0	199.2	176.5	162.2	153.7	159.3	165.0	167.8
75°	185.0	176.5	159.3	139.5	125.2	125.2	130.8	136.5	139.5
77.5°	142.3	136.5	119.5	105.3	99.5	99.5	105.3	108.1	111.0
80°	99.5	93.9	85.3	76.8	71.2	76.8	82.5	82.5	85.3
82.5°	65.5	62.6	56.9	51.2	51.2	54.0	56.9	59.8	59.8
85°	34.2	34.2	31.3	28.5	31.3	34.2	34.2	37.0	37.0
87.5°	11.4	11.4	11.4	11.4	14.2	14.2	14.2	14.2	14.2
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)