

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: P582394

Luminaire Tested: **HC635D010-HM63040935-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582394
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-HM63040935-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3347.6 lumens
Efficiency: N/A
Efficacy: 99.3 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

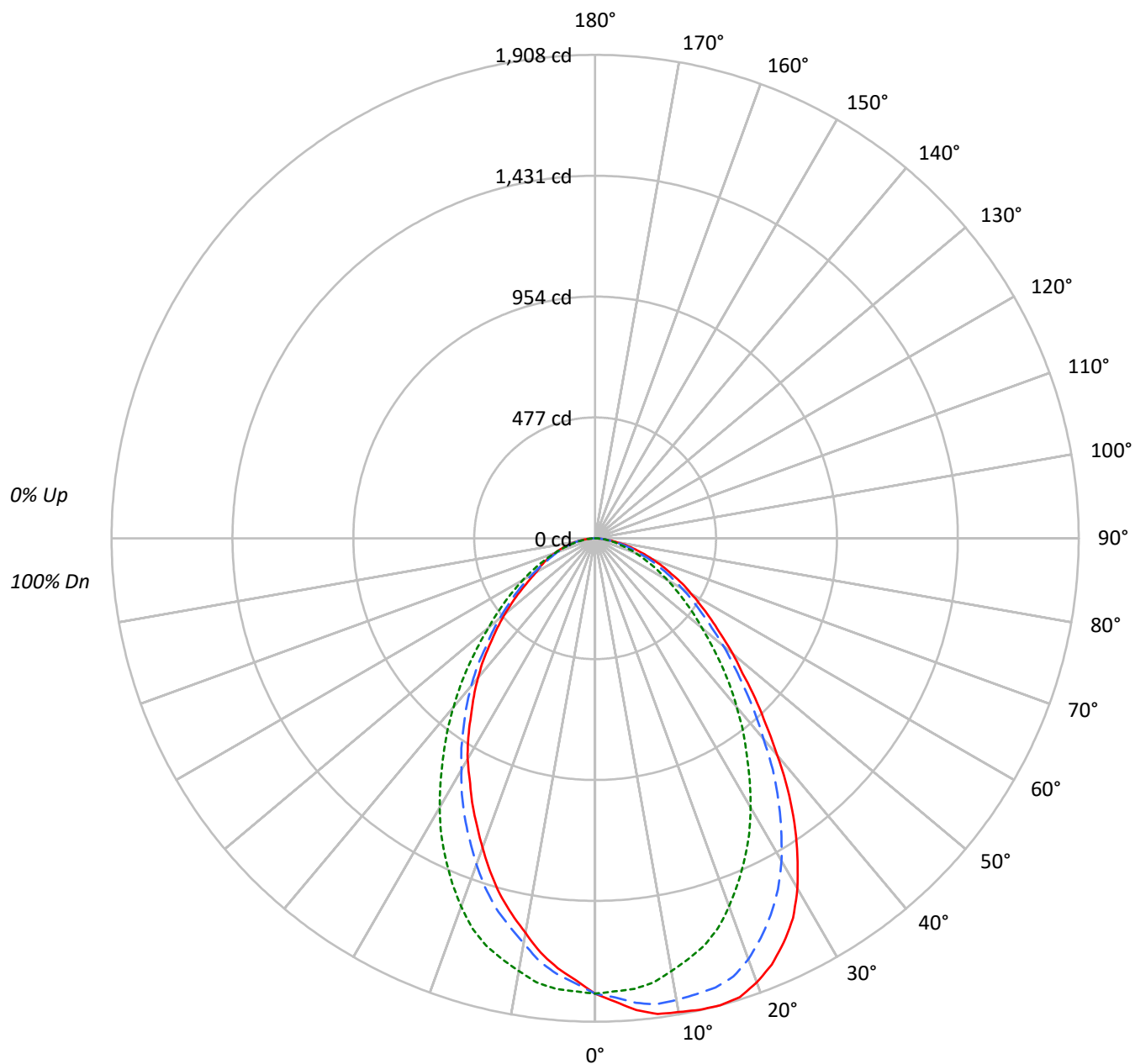
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	106	103	99	108	104	101	98		100	97	95		96	94	92		93	91	89
2	102	95	89	84	99	93	88	83		90	85	81		86	83	79		83	80	78
3	94	85	78	72	92	83	77	71		80	75	70		78	73	69		75	71	68
4	87	76	69	63	85	75	68	62		73	67	62		71	65	61		69	64	60
5	81	69	61	55	79	68	61	55		66	60	55		64	59	54		63	58	53
6	75	63	55	49	73	62	55	49		61	54	49		59	53	48		57	52	48
7	70	58	50	44	69	57	50	44		56	49	44		54	48	44		53	48	43
8	66	53	46	40	64	53	45	40		51	45	40		50	44	40		49	44	39
9	62	49	42	37	60	49	42	37		48	41	36		47	41	36		46	40	36
10	58	46	39	34	57	45	38	34		44	38	33		44	38	33		43	37	33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	98517	98517	98517
5°	102889	98228	93704
10°	105693	96536	88058
15°	108309	94439	82498
20°	108795	90168	75776
25°	106506	84416	69494
30°	101047	77626	63693
35°	91785	69767	57139
40°	79964	62145	51411
45°	69193	54378	45191
50°	60442	46830	39598
55°	53408	41145	33987
60°	47990	36072	29438
65°	42975	31378	28550
70°	38388	26751	26751
75°	33296	22536	25121
80°	26708	19100	22920
85°	18304	16731	19750



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	5.0
10°-20°	469.5	14.0
20°-30°	654.3	19.5
30°-40°	674.2	20.1
40°-50°	558.7	16.7
50°-60°	401.5	12.0
60°-70°	255.7	7.6
70°-80°	131.3	3.9
80°-90°	33.4	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°	1292.7	38.6
0°-40°	1966.9	58.8
0°-60°	2927.2	87.4
0°-90°	3347.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3347.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1797	1797	1797	1797	1797	
5°	1870	1841	1785	1727	1703	179
15°	1908	1836	1664	1512	1454	538
25°	1761	1640	1396	1217	1149	807
35°	1372	1260	1042	904	854	852
45°	892	830	701	612	583	691
55°	559	513	430	382	356	503
65°	331	295	242	210	220	332
75°	157	136	106	111	119	168
85°	29	27	27	29	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°	1797.1	1797.1	1797.1	1797.1	1797.1	1797.1	1797.1	1797.1	1797.1
2.5°	1830.9	1823.7	1814.0	1804.3	1789.8	1772.9	1758.4	1753.5	1746.3
5°	1869.7	1860.0	1840.6	1816.4	1785.0	1753.5	1726.9	1710.0	1702.8
7.5°	1893.8	1881.8	1855.2	1814.0	1768.1	1722.1	1683.4	1659.2	1649.6
10°	1898.7	1886.6	1850.3	1794.7	1734.2	1671.4	1622.9	1593.9	1581.9
12.5°	1905.9	1889.0	1843.0	1777.7	1700.3	1627.7	1567.3	1531.0	1519.0
15°	1908.4	1889.0	1835.8	1756.0	1664.0	1577.0	1511.7	1468.2	1453.6
17.5°	1898.7	1876.9	1814.0	1717.2	1613.3	1521.4	1443.9	1398.1	1378.7
20°	1864.9	1840.6	1768.1	1659.2	1545.6	1448.8	1369.0	1320.6	1298.9
22.5°	1821.3	1789.8	1707.6	1591.6	1473.0	1371.5	1291.6	1243.2	1221.5
25°	1760.8	1731.8	1639.9	1516.5	1395.6	1289.2	1216.6	1165.8	1148.9
27.5°	1690.6	1656.8	1562.5	1439.1	1315.8	1209.4	1139.2	1093.2	1071.5
30°	1596.3	1564.9	1470.5	1347.2	1226.3	1127.1	1054.5	1015.9	1006.2
32.5°	1485.1	1458.5	1366.6	1250.4	1134.3	1042.5	982.0	940.8	931.1
35°	1371.5	1339.9	1260.1	1151.2	1042.5	960.2	904.5	868.4	853.8
37.5°	1248.1	1219.0	1151.2	1054.5	957.8	880.4	832.1	800.6	786.1
40°	1117.4	1095.7	1032.8	955.4	868.4	800.6	759.5	732.9	718.4
42.5°	996.5	974.7	931.1	858.7	786.1	725.6	689.3	665.2	653.1
45°	892.5	873.1	829.6	766.7	701.4	650.6	612.0	595.1	582.9
47.5°	788.5	778.9	740.1	682.1	621.7	578.0	551.4	532.2	522.5
50°	708.7	696.6	660.3	599.8	549.1	515.2	491.0	474.0	464.3
52.5°	626.4	614.3	580.5	529.7	488.6	457.1	433.0	418.5	408.8
55°	558.8	549.1	512.8	466.8	430.5	403.9	382.2	365.3	355.6
57.5°	495.9	486.2	452.3	408.8	377.3	353.1	333.8	319.3	307.2
60°	437.7	430.5	396.7	355.6	329.0	304.7	287.8	275.8	268.5
62.5°	387.0	372.5	343.4	307.2	283.0	263.6	246.7	239.5	244.3
65°	331.3	324.1	295.1	263.6	241.9	222.5	210.4	215.3	220.1
67.5°	285.4	275.8	251.5	222.5	203.2	188.7	181.4	191.0	193.5
70°	239.5	229.8	208.0	183.8	166.9	157.2	157.2	164.4	166.9
72.5°	195.9	188.7	169.3	150.0	137.8	130.6	135.5	140.3	142.7
75°	157.2	150.0	135.5	118.6	106.4	106.4	111.2	116.1	118.6
77.5°	120.9	116.1	101.5	89.5	84.6	84.6	89.5	92.0	94.3
80°	84.6	79.8	72.6	65.4	60.5	65.4	70.1	70.1	72.6
82.5°	55.7	53.2	48.4	43.5	43.5	46.0	48.4	50.8	50.8
85°	29.1	29.1	26.6	24.2	26.6	29.1	29.1	31.4	31.4
87.5°	9.7	9.7	9.7	9.7	12.1	12.1	12.1	12.1	12.1
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)