

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: P582405

Luminaire Tested: **HC635D010-HM63040940-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040940-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3709.3 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

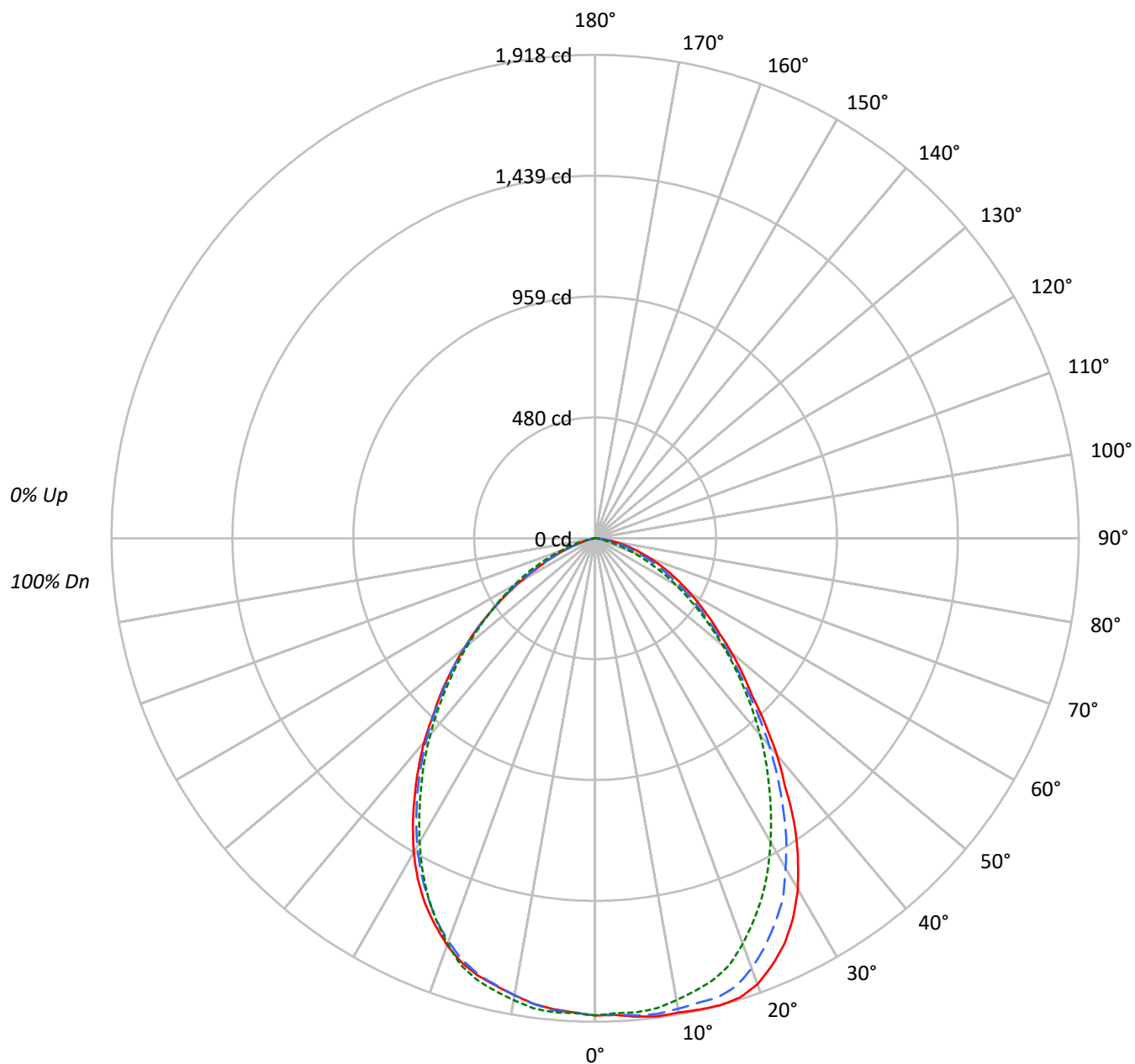
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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			93
2	103	96	90	85	100	94	89	84		91	86	83			87	84	81			85
3	95	86	79	74	93	84	78	73		82	76	72			79	74	70			77
4	88	78	70	64	86	76	69	64		74	68	63			72	66	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		61	55	50			60	54	49			58
7	71	59	51	45	69	58	50	45		56	50	45			55	49	44			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°	103775	103775	103775
5°	104853	103896	103213
10°	106344	103583	102475
15°	108843	102929	101942
20°	109857	99870	100161
25°	107450	94844	96641
30°	101769	88108	91084
35°	92146	80529	83520
40°	80250	72794	75456
45°	68092	64433	66743
50°	60305	56280	57764
55°	53112	48142	47893
60°	47595	40534	37267
65°	42482	32507	26721
70°	37378	23449	16702
75°	31538	14191	9468
80°	24277	6251	3915
85°	14026	1572	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.7	4.8
10°-20°	516.4	13.9
20°-30°	746.5	20.1
30°-40°	785.5	21.2
40°-50°	660.3	17.8
50°-60°	463.5	12.5
60°-70°	254.9	6.9
70°-80°	90.5	2.4
80°-90°	11.9	0.3
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°	1442.6	38.9
0°-40°	2228.2	60.1
0°-60°	3352.0	90.4
0°-90°	3709.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3709.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1893	1893	1893	1893	1893	
5°	1905	1900	1888	1881	1876	182
15°	1918	1886	1814	1791	1796	541
25°	1776	1687	1568	1570	1598	813
35°	1377	1298	1203	1228	1248	853
45°	878	853	831	851	861	689
55°	556	526	504	504	501	500
65°	328	293	251	206	206	326
75°	149	119	67	45	45	160
85°	22	12	2	2	2	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°	1893.0	1893.0	1893.0	1893.0	1893.0	1893.0	1893.0	1893.0	1893.0
2.5°	1893.0	1893.0	1890.5	1890.5	1885.5	1885.5	1883.1	1883.1	1883.1
5°	1905.4	1905.4	1900.5	1893.0	1888.0	1880.6	1880.6	1878.1	1875.6
7.5°	1912.8	1910.4	1902.9	1893.0	1880.6	1868.1	1863.2	1865.7	1863.2
10°	1910.4	1905.4	1895.4	1875.6	1860.8	1843.4	1840.9	1838.4	1840.9
12.5°	1915.3	1907.9	1888.0	1863.2	1838.4	1818.5	1816.1	1816.1	1818.5
15°	1917.8	1910.4	1885.5	1848.3	1813.6	1793.8	1791.2	1793.8	1796.2
17.5°	1910.4	1900.5	1863.2	1813.6	1774.0	1754.0	1754.0	1759.0	1763.9
20°	1883.1	1868.1	1816.1	1756.6	1711.9	1696.9	1702.0	1711.9	1716.9
22.5°	1833.5	1816.1	1756.6	1689.6	1642.4	1629.9	1642.4	1654.8	1659.8
25°	1776.4	1756.6	1687.0	1617.6	1568.0	1553.0	1570.4	1590.3	1597.7
27.5°	1699.5	1677.1	1612.7	1533.2	1483.6	1476.1	1496.0	1518.4	1523.3
30°	1607.7	1582.9	1510.9	1436.5	1391.9	1389.3	1411.7	1431.6	1438.9
32.5°	1496.0	1473.7	1411.7	1337.3	1297.6	1297.6	1319.9	1337.3	1344.7
35°	1376.9	1352.1	1297.6	1235.5	1203.3	1205.7	1228.0	1240.5	1248.0
37.5°	1235.5	1228.0	1185.9	1133.9	1111.5	1116.5	1133.9	1143.8	1151.1
40°	1121.4	1101.5	1074.2	1032.1	1017.2	1022.2	1039.6	1049.5	1054.4
42.5°	997.3	984.9	962.7	932.9	923.0	930.3	945.3	952.7	950.2
45°	878.3	875.8	853.4	836.0	831.1	841.1	851.0	858.4	860.9
47.5°	791.5	781.5	761.7	749.2	744.3	754.2	764.2	769.1	769.1
50°	707.1	697.2	677.3	665.0	659.9	669.9	677.3	682.2	677.3
52.5°	622.7	612.8	595.4	580.6	578.0	583.0	585.5	587.9	593.0
55°	555.7	545.8	526.0	508.6	503.7	506.1	503.7	503.7	501.1
57.5°	491.2	481.3	461.4	441.6	434.1	431.7	424.2	421.8	419.3
60°	434.1	421.8	401.9	379.6	369.7	359.8	347.3	339.9	339.9
62.5°	379.6	367.1	344.8	325.0	310.1	292.8	273.0	263.0	263.0
65°	327.5	317.5	292.8	270.4	250.6	228.3	206.0	201.0	206.0
67.5°	277.9	267.9	243.1	220.8	195.9	168.7	148.9	148.9	153.8
70°	233.2	223.2	201.0	173.6	146.3	119.0	104.2	104.2	104.2
72.5°	191.0	181.1	156.3	131.5	104.2	76.9	69.4	72.0	69.4
75°	148.9	141.4	119.0	91.8	67.0	47.1	44.7	42.1	44.7
77.5°	111.7	104.2	84.4	59.5	37.2	27.3	24.9	24.9	24.9
80°	76.9	69.4	54.6	34.8	19.8	12.4	12.4	12.4	12.4
82.5°	47.1	39.7	29.8	17.4	7.5	7.5	7.5	7.5	7.5
85°	22.3	17.4	12.4	5.0	2.5	2.5	2.5	2.5	2.5
87.5°	5.0	5.0	2.5	2.5	0.0	2.5	2.5	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)