

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: P582411

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040940-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3143.6 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

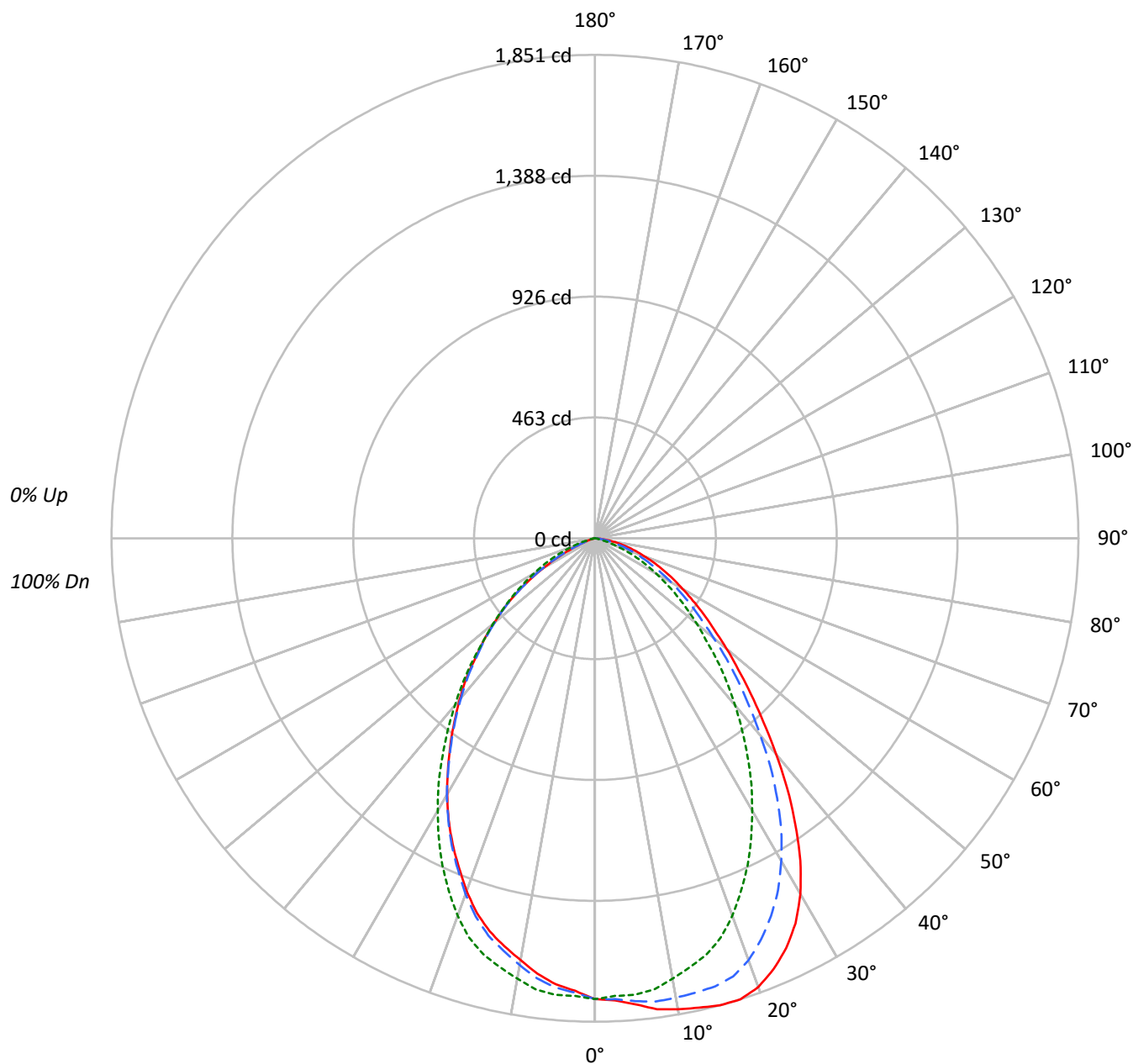
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P582411

CATALOG NUMBER: HC635D010-HM63040940-61WWBB

Luminous Intensity Polar Plot





TEST NUMBER: P582411

CATALOG NUMBER: HC635D010-HM63040940-61WWBB

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	111	108	104	101	109	105	102	100		101	99	97		97	95	94		94	92	91
2	103	97	91	87	101	95	90	86		91	87	84		88	85	82		85	83	80
3	96	87	80	75	93	86	79	74		83	77	73		80	76	72		78	74	71
4	89	79	71	66	87	78	71	65		75	69	64		73	68	64		71	66	63
5	83	72	64	58	81	71	63	58		69	62	57		67	61	57		65	60	56
6	77	65	58	52	75	65	57	52		63	56	51		61	55	51		60	55	51
7	72	60	52	47	70	59	52	47		58	51	46		56	51	46		55	50	46
8	67	55	48	43	66	55	47	42		53	47	42		52	46	42		51	46	42
9	63	51	44	39	62	51	44	39		50	43	39		49	43	38		48	42	38
10	60	48	40	36	58	47	40	36		46	40	36		45	40	35		45	39	35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	96703	96703	96703
5°	98574	96527	94343
10°	101924	95300	91292
15°	105046	93638	88428
20°	106678	89736	83809
25°	104752	83594	78035
30°	99572	76170	71619
35°	89496	68081	64587
40°	77230	59655	57708
45°	65394	51354	50013
50°	56075	43376	42958
55°	48610	36520	35105
60°	42442	29647	25031
65°	37332	22843	13841
70°	32217	15115	6748
75°	27345	7371	2626
80°	21152	3125	1578
85°	12454	1572	1572



TEST NUMBER: P582411

CATALOG NUMBER: HC635D010-HM63040940-61WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	5.3
10°-20°	470.7	15.0
20°-30°	662.9	21.1
30°-40°	677.3	21.5
40°-50°	546.1	17.4
50°-60°	366.3	11.7
60°-70°	185.4	5.9
70°-80°	59.3	1.9
80°-90°	9.1	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°	1300.1	41.4
0°-40°	1977.5	62.9
0°-60°	2889.8	91.9
0°-90°	3143.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3143.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1764	1764	1764	1764	1764	
5°	1791	1779	1754	1727	1714	172
15°	1851	1776	1650	1575	1558	523
25°	1732	1595	1382	1298	1290	793
35°	1337	1216	1017	960	965	832
45°	844	776	662	640	645	656
55°	509	452	382	365	367	458
65°	288	238	176	117	107	287
75°	129	92	35	12	12	139
85°	20	10	2	2	2	27
90°	0	0	0	0	0	



TEST NUMBER: P582411

CATALOG NUMBER: HC635D010-HM63040940-61WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1764.0	1764.0	1764.0	1764.0	1764.0	1764.0	1764.0	1764.0	1764.0
2.5°	1771.5	1769.1	1766.5	1761.6	1754.1	1746.6	1741.7	1736.7	1734.3
5°	1791.3	1786.3	1779.0	1769.1	1754.1	1736.7	1726.8	1716.9	1714.4
7.5°	1818.7	1808.7	1788.9	1766.5	1741.7	1716.9	1699.5	1689.6	1682.1
10°	1831.0	1813.6	1786.3	1749.1	1712.0	1682.1	1659.8	1645.0	1640.0
12.5°	1840.9	1821.1	1781.4	1731.8	1682.1	1642.4	1617.7	1605.2	1600.3
15°	1850.9	1831.0	1776.4	1712.0	1649.9	1602.8	1575.4	1563.1	1558.1
17.5°	1850.9	1823.6	1759.1	1677.2	1602.8	1545.7	1518.4	1506.0	1503.6
20°	1828.6	1798.8	1719.3	1622.6	1538.2	1473.8	1448.9	1441.5	1436.6
22.5°	1786.3	1751.7	1662.3	1553.2	1461.3	1399.3	1372.0	1367.0	1362.1
25°	1731.8	1697.1	1595.3	1478.7	1382.0	1319.9	1297.6	1292.7	1290.1
27.5°	1662.3	1625.0	1518.4	1399.3	1295.1	1235.6	1215.8	1215.8	1213.2
30°	1573.0	1530.9	1426.7	1307.5	1203.3	1148.7	1133.9	1133.9	1131.4
32.5°	1463.9	1421.6	1327.3	1213.2	1114.0	1057.0	1044.6	1049.5	1047.0
35°	1337.3	1302.6	1215.8	1104.1	1017.3	965.1	960.2	965.1	965.1
37.5°	1210.8	1178.6	1104.1	1007.4	925.4	878.3	878.3	885.8	883.3
40°	1079.2	1054.5	984.9	900.6	833.6	801.4	796.5	803.8	806.4
42.5°	955.2	935.4	875.8	806.4	746.8	714.6	722.0	726.9	729.5
45°	843.5	823.7	776.5	704.6	662.4	640.1	640.1	647.6	645.1
47.5°	744.3	729.5	682.3	612.8	575.6	565.6	570.7	575.6	575.6
50°	657.5	635.2	590.5	535.9	508.6	496.2	501.2	503.7	503.7
52.5°	575.6	560.7	516.0	466.4	441.6	434.2	434.2	436.7	436.7
55°	508.6	491.3	451.5	401.9	382.1	372.2	364.7	362.2	367.3
57.5°	444.2	429.2	392.0	344.8	322.6	312.6	297.7	292.8	297.7
60°	387.1	374.6	337.4	292.8	270.4	250.6	233.2	223.2	228.3
62.5°	337.4	322.6	285.3	248.1	223.2	201.0	173.6	158.8	166.2
65°	287.8	275.4	238.2	201.0	176.1	148.9	116.6	106.7	106.7
67.5°	243.2	230.7	196.1	163.7	134.0	101.8	72.0	69.4	72.0
70°	201.0	188.6	158.8	126.5	94.3	62.1	42.1	42.1	42.1
72.5°	166.2	151.4	124.1	91.8	59.5	32.2	22.3	24.9	24.9
75°	129.1	116.6	91.8	62.1	34.8	14.9	12.4	12.4	12.4
77.5°	96.7	86.8	64.5	39.7	17.4	5.0	5.0	5.0	5.0
80°	67.0	57.1	42.1	24.9	9.9	5.0	5.0	5.0	5.0
82.5°	39.7	34.8	24.9	12.4	5.0	2.5	2.5	2.5	2.5
85°	19.8	17.4	9.9	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



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)