

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: P582142

Luminaire Tested: **HC630D010-HM63040827-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582142  
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: HC630D010-HM63040827-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2833.3 lumens  
Efficiency: N/A  
Efficacy: 101.2 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

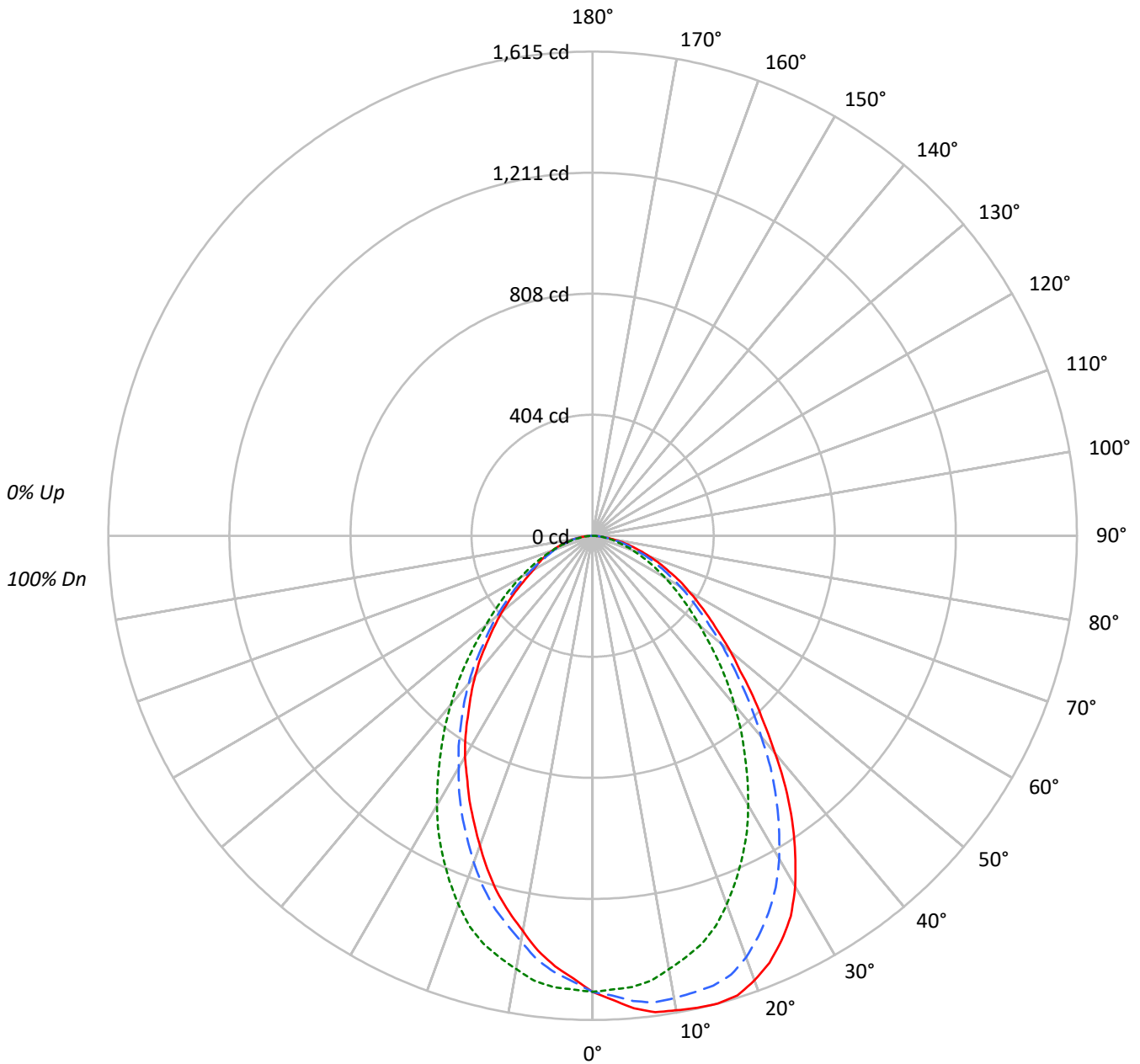
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P582142

CATALOG NUMBER: HC630D010-HM63040827-61WWW

### Luminous Intensity Polar Plot





TEST NUMBER: P582142

CATALOG NUMBER: HC630D010-HM63040827-61WWW

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

RF	20				20				20				20				20				
RC	80				70				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°	83381	83381	83381
5°	87079	83133	79309
10°	89461	81706	74525
15°	91663	79932	69830
20°	92081	76312	64131
25°	90144	71448	58818
30°	85526	65700	53907
35°	77678	59053	48365
40°	67677	52591	43517
45°	58564	46028	38244
50°	51162	39632	33526
55°	45198	34828	28759
60°	40622	30535	24910
65°	36385	26553	24166
70°	32489	22648	22648
75°	28171	19084	21266
80°	22635	16132	19415
85°	15473	14152	16731



TEST NUMBER: P582142

CATALOG NUMBER: HC630D010-HM63040827-61WWW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.0	5.0
10°-20°	397.4	14.0
20°-30°	553.8	19.5
30°-40°	570.6	20.1
40°-50°	472.9	16.7
50°-60°	339.9	12.0
60°-70°	216.4	7.6
70°-80°	111.1	3.9
80°-90°	28.3	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°	1094.1	38.6
0°-40°	1664.7	58.8
0°-60°	2477.5	87.4
0°-90°	2833.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2833.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1521	1521	1521	1521	1521	
5°	1582	1558	1511	1462	1441	152
15°	1615	1554	1408	1280	1230	455
25°	1490	1388	1181	1030	972	683
35°	1161	1066	882	766	723	721
45°	755	702	594	518	493	585
55°	473	434	364	323	301	426
65°	280	250	205	178	186	281
75°	133	115	90	94	100	142
85°	25	22	22	25	27	31
90°	0	0	0	0	0	



TEST NUMBER: P582142

CATALOG NUMBER: HC630D010-HM63040827-61WWW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1521.0	1521.0	1521.0	1521.0	1521.0	1521.0	1521.0	1521.0	1521.0
2.5°	1549.6	1543.6	1535.4	1527.2	1514.9	1500.5	1488.3	1484.2	1478.0
5°	1582.4	1574.2	1557.8	1537.4	1510.7	1484.2	1461.6	1447.4	1441.2
7.5°	1602.9	1592.7	1570.2	1535.4	1496.5	1457.6	1424.8	1404.3	1396.1
10°	1607.1	1596.7	1566.0	1518.9	1467.8	1414.6	1373.7	1349.0	1338.8
12.5°	1613.1	1598.8	1560.0	1504.7	1439.2	1377.7	1326.6	1295.9	1285.5
15°	1615.1	1598.8	1553.8	1486.2	1408.4	1334.8	1279.5	1242.6	1230.4
17.5°	1607.1	1588.6	1535.4	1453.4	1365.4	1287.7	1222.2	1183.3	1166.9
20°	1578.4	1557.8	1496.5	1404.3	1308.1	1226.2	1158.7	1117.8	1099.3
22.5°	1541.5	1514.9	1445.2	1347.0	1246.7	1160.7	1093.2	1052.3	1033.8
25°	1490.3	1465.8	1387.9	1283.5	1181.2	1091.1	1029.7	986.8	972.4
27.5°	1431.0	1402.3	1322.4	1218.0	1113.6	1023.6	964.2	925.3	906.9
30°	1351.1	1324.5	1244.6	1140.3	1037.9	953.9	892.6	859.8	851.6
32.5°	1256.9	1234.4	1156.7	1058.3	960.1	882.4	831.1	796.4	788.2
35°	1160.7	1134.1	1066.5	974.4	882.4	812.7	765.6	734.9	722.7
37.5°	1056.3	1031.7	974.4	892.6	810.7	745.1	704.2	677.6	665.4
40°	945.7	927.3	874.2	808.6	734.9	677.6	642.8	620.3	608.1
42.5°	843.5	825.0	788.2	726.7	665.4	614.1	583.4	563.0	552.8
45°	755.4	739.0	702.2	649.0	593.7	550.6	517.9	503.5	493.3
47.5°	667.4	659.2	626.4	577.3	526.1	489.3	466.8	450.4	442.2
50°	599.9	589.6	558.8	507.7	464.7	436.0	415.6	401.3	393.1
52.5°	530.2	519.9	491.3	448.4	413.5	386.9	366.4	354.2	346.0
55°	472.9	464.7	434.0	395.1	364.4	341.8	323.4	309.1	300.9
57.5°	419.7	411.5	382.9	346.0	319.4	298.9	282.5	270.3	260.0
60°	370.5	364.4	335.8	300.9	278.5	257.9	243.6	233.4	227.2
62.5°	327.6	315.2	290.7	260.0	239.5	223.2	208.8	202.7	206.8
65°	280.5	274.3	249.8	223.2	204.7	188.3	178.1	182.2	186.3
67.5°	241.6	233.4	212.9	188.3	171.9	159.7	153.5	161.7	163.7
70°	202.7	194.5	176.1	155.6	141.3	133.0	133.0	139.2	141.3
72.5°	165.9	159.7	143.3	126.9	116.6	110.6	114.6	118.8	120.8
75°	133.0	126.9	114.6	100.4	90.1	90.1	94.2	98.2	100.4
77.5°	102.4	98.2	86.0	75.7	71.7	71.7	75.7	77.8	79.8
80°	71.7	67.5	61.5	55.3	51.1	55.3	59.3	59.3	61.5
82.5°	47.1	45.1	40.9	36.9	36.9	38.9	40.9	43.0	43.0
85°	24.6	24.6	22.5	20.5	22.5	24.6	24.6	26.6	26.6
87.5°	8.2	8.2	8.2	8.2	10.2	10.2	10.2	10.2	10.2
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)