

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: P582171

Luminaire Tested: **HC630D010-HM63040835-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582171
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: HC630D010-HM63040835-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3407.3 lumens
Efficiency: N/A
Efficacy: 121.7 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

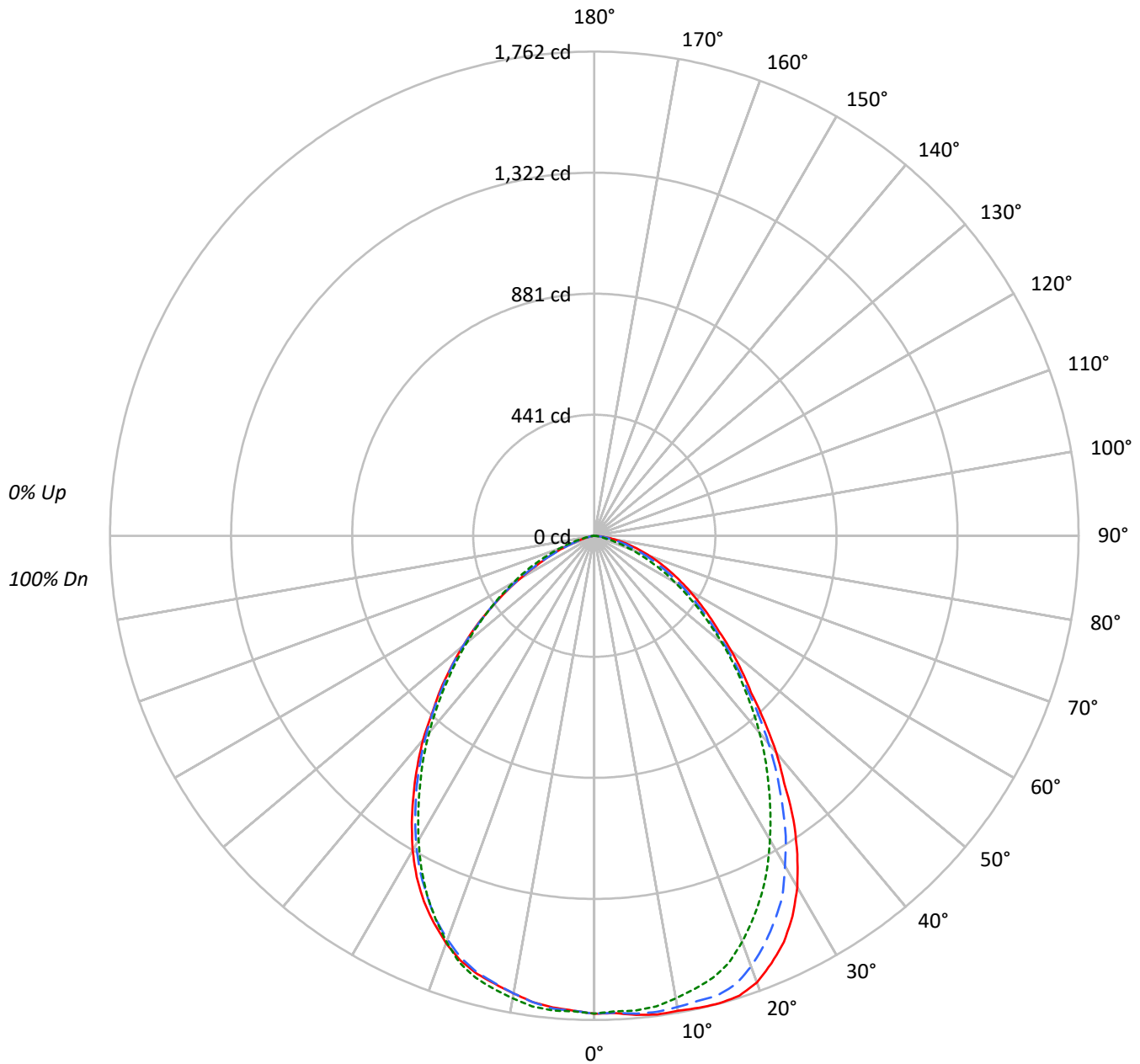
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99		101	98	96		97	95	93		93	92	90
2	103	96	90	85	100	94	89	84		91	86	83		87	84	81		85	82	79
3	95	86	79	74	93	84	78	73		82	76	72		79	74	70		77	73	69
4	88	78	70	64	86	76	69	64		74	68	63		72	66	62		70	65	61
5	82	70	62	57	80	69	62	56		67	61	56		65	60	55		64	59	55
6	76	64	56	50	74	63	56	50		61	55	50		60	54	49		58	53	49
7	71	59	51	45	69	58	50	45		56	50	45		55	49	44		54	48	44
8	66	54	46	41	65	53	46	41		52	45	41		51	45	40		50	44	40
9	62	50	42	37	61	49	42	37		48	42	37		47	41	37		46	41	37
10	59	46	39	34	57	46	39	34		45	38	34		44	38	34		43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	95327	95327	95327
5°	96318	95438	94816
10°	97682	95150	94131
15°	99978	94547	93644
20°	100914	91743	92005
25°	98703	87126	88777
30°	93489	80930	83671
35°	84651	73970	76714
40°	73717	66868	69316
45°	62541	59192	61309
50°	55401	51708	53064
55°	48801	44213	44003
60°	43725	37234	34230
65°	39018	29861	24542
70°	34349	21558	15339
75°	28954	13047	8684
80°	22288	5746	3599
85°	12957	1447	1447



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.1	4.8
10°-20°	474.4	13.9
20°-30°	685.8	20.1
30°-40°	721.6	21.2
40°-50°	606.6	17.8
50°-60°	425.7	12.5
60°-70°	234.2	6.9
70°-80°	83.2	2.4
80°-90°	10.9	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°	1325.2	38.9
0°-40°	2046.8	60.1
0°-60°	3079.1	90.4
0°-90°	3407.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3407.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1739	1739	1739	1739	1739	
5°	1750	1746	1734	1728	1723	167
15°	1762	1732	1666	1646	1650	497
25°	1632	1550	1440	1443	1468	747
35°	1265	1192	1105	1128	1146	784
45°	807	784	764	782	791	633
55°	511	483	463	463	460	459
65°	301	269	230	189	189	299
75°	137	109	62	41	41	147
85°	21	11	2	2	2	28
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°	1738.9	1738.9	1738.9	1738.9	1738.9	1738.9	1738.9	1738.9	1738.9
2.5°	1738.9	1738.9	1736.7	1736.7	1732.0	1732.0	1729.8	1729.8	1729.8
5°	1750.3	1750.3	1745.7	1738.9	1734.3	1727.5	1727.5	1725.2	1723.0
7.5°	1757.1	1754.8	1747.9	1738.9	1727.5	1716.1	1711.6	1713.8	1711.6
10°	1754.8	1750.3	1741.2	1723.0	1709.3	1693.3	1691.0	1688.7	1691.0
12.5°	1759.4	1752.6	1734.3	1711.6	1688.7	1670.5	1668.3	1668.3	1670.5
15°	1761.6	1754.8	1732.0	1697.9	1665.9	1647.7	1645.5	1647.7	1650.0
17.5°	1754.8	1745.7	1711.6	1665.9	1629.5	1611.2	1611.2	1615.9	1620.4
20°	1729.8	1716.1	1668.3	1613.6	1572.6	1558.9	1563.4	1572.6	1577.1
22.5°	1684.2	1668.3	1613.6	1552.0	1508.7	1497.3	1508.7	1520.1	1524.7
25°	1631.8	1613.6	1549.7	1485.9	1440.4	1426.7	1442.6	1460.8	1467.7
27.5°	1561.2	1540.6	1481.4	1408.4	1362.8	1356.1	1374.2	1394.7	1399.3
30°	1476.9	1454.0	1387.9	1319.6	1278.5	1276.3	1296.7	1315.0	1321.8
32.5°	1374.2	1353.7	1296.7	1228.4	1192.0	1192.0	1212.4	1228.4	1235.3
35°	1264.9	1242.0	1192.0	1134.9	1105.3	1107.6	1128.1	1139.5	1146.3
37.5°	1134.9	1128.1	1089.4	1041.6	1021.0	1025.5	1041.6	1050.6	1057.5
40°	1030.1	1011.8	986.9	948.1	934.4	939.0	954.9	964.0	968.6
42.5°	916.1	904.7	884.3	856.9	847.8	854.7	868.3	875.1	872.8
45°	806.7	804.5	784.0	768.0	763.5	772.6	781.6	788.5	790.8
47.5°	727.0	717.9	699.6	688.3	683.7	692.8	702.0	706.5	706.5
50°	649.6	640.4	622.2	610.8	606.3	615.3	622.2	626.7	622.2
52.5°	572.0	562.9	546.9	533.3	531.0	535.5	537.9	540.2	544.7
55°	510.6	501.4	483.2	467.2	462.6	464.9	462.6	462.6	460.4
57.5°	451.2	442.1	423.9	405.7	398.8	396.5	389.8	387.4	385.1
60°	398.8	387.4	369.2	348.7	339.6	330.4	319.0	312.2	312.2
62.5°	348.7	337.3	316.7	298.6	284.9	269.0	250.6	241.6	241.6
65°	300.8	291.7	269.0	248.4	230.2	209.6	189.2	184.7	189.2
67.5°	255.3	246.1	223.3	202.8	180.0	154.9	136.7	136.7	141.3
70°	214.3	205.1	184.7	159.6	134.5	109.4	95.7	95.7	95.7
72.5°	175.5	166.3	143.6	120.8	95.7	70.6	63.8	66.1	63.8
75°	136.7	130.0	109.4	84.3	61.6	43.3	41.0	38.8	41.0
77.5°	102.6	95.7	77.5	54.7	34.2	25.1	22.8	22.8	22.8
80°	70.6	63.8	50.2	31.9	18.2	11.4	11.4	11.4	11.4
82.5°	43.3	36.5	27.3	15.9	6.9	6.9	6.9	6.9	6.9
85°	20.6	15.9	11.4	4.5	2.3	2.3	2.3	2.3	2.3
87.5°	4.5	4.5	2.3	2.3	0.0	2.3	2.3	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)