

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: P593231

Luminaire Tested: **HC630D010-HM63040950-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040950-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2992.5 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

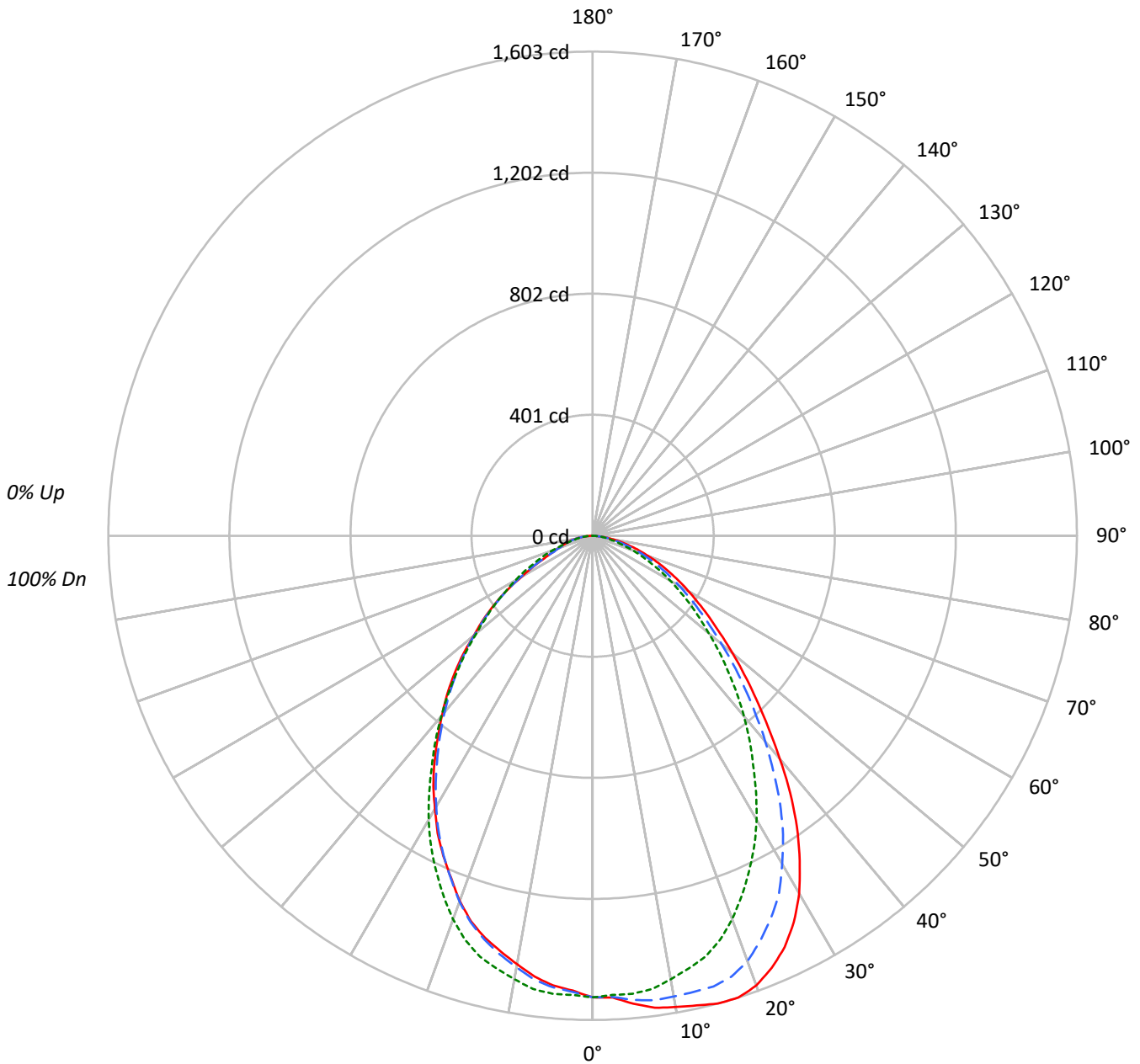
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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			100
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87			87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76			76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66			66
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58			58
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52			52
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46			46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42			42
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38			38
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34			34
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31			31

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	83771	83771	83771
5°	85582	83744	82253
10°	88203	82970	80181
15°	90988	81868	78190
20°	92437	78792	75017
25°	90913	74121	70710
30°	86558	68719	66067
35°	78936	62024	61047
40°	69015	55726	55425
45°	59394	49036	50176
50°	51623	42728	43615
55°	45093	37514	37915
60°	40052	32497	29745
65°	35737	27344	22752
70°	31448	22408	19074
75°	26963	17686	18131
80°	21720	15153	17805
85°	14404	13146	15788



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.7	4.8
10°-20°	411.9	13.8
20°-30°	588.0	19.6
30°-40°	615.9	20.6
40°-50°	518.5	17.3
50°-60°	369.1	12.3
60°-70°	216.0	7.2
70°-80°	102.2	3.4
80°-90°	26.3	0.9
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°	1144.5	38.2
0°-40°	1760.4	58.8
0°-60°	2648.0	88.5
0°-90°	2992.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2992.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1528	1528	1528	1528	1528	
5°	1555	1543	1522	1501	1495	149
15°	1603	1545	1442	1384	1378	453
25°	1503	1396	1225	1167	1169	688
35°	1180	1081	927	896	912	733
45°	766	710	632	635	647	595
55°	472	432	392	392	397	425
65°	276	244	211	177	175	275
75°	127	106	84	81	86	137
85°	23	19	21	25	25	30
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°	1528.1	1528.1	1528.1	1528.1	1528.1	1528.1	1528.1	1528.1	1528.1
2.5°	1530.1	1530.1	1528.1	1526.0	1521.8	1515.5	1511.3	1507.2	1507.2
5°	1555.2	1551.1	1542.6	1532.3	1521.8	1509.3	1500.9	1494.7	1494.7
7.5°	1576.0	1567.7	1551.1	1532.3	1513.5	1496.7	1482.1	1473.8	1471.7
10°	1584.5	1574.0	1548.9	1519.7	1490.5	1467.5	1450.8	1440.4	1440.4
12.5°	1592.8	1580.2	1546.9	1505.0	1467.5	1436.2	1419.5	1411.1	1409.1
15°	1603.2	1586.5	1544.7	1492.6	1442.5	1406.9	1384.0	1377.7	1377.7
17.5°	1603.2	1582.3	1530.1	1465.4	1402.8	1363.2	1342.3	1336.0	1338.1
20°	1584.5	1561.4	1498.9	1419.5	1350.6	1308.9	1288.0	1283.8	1285.9
22.5°	1548.9	1521.8	1450.8	1365.2	1290.1	1246.2	1227.4	1227.4	1225.4
25°	1503.0	1473.8	1396.5	1306.8	1225.4	1181.5	1166.9	1169.0	1169.0
27.5°	1442.5	1413.2	1336.0	1240.0	1158.6	1114.7	1104.3	1108.5	1110.5
30°	1367.4	1336.0	1254.6	1160.7	1085.6	1041.7	1035.4	1041.7	1043.7
32.5°	1275.4	1252.5	1173.2	1077.1	1006.1	968.6	966.5	972.7	981.2
35°	1179.5	1154.4	1081.3	993.6	926.8	895.6	895.6	906.0	912.2
37.5°	1075.1	1050.0	983.2	910.2	853.8	824.6	828.7	839.2	841.2
40°	964.4	945.6	889.3	826.6	778.7	755.7	761.9	772.4	774.5
42.5°	860.0	843.4	797.5	741.1	705.6	688.9	697.2	709.7	713.9
45°	766.1	747.3	709.7	661.8	632.5	624.1	634.6	642.9	647.2
47.5°	680.6	663.8	632.5	588.7	567.7	563.6	574.0	578.2	582.4
50°	605.3	588.7	557.4	517.7	501.0	501.0	509.4	513.5	511.4
52.5°	532.3	517.7	488.4	455.0	444.7	444.7	450.9	453.0	457.2
55°	471.8	457.2	432.1	400.8	392.5	388.3	392.5	392.5	396.7
57.5°	415.4	402.8	379.9	350.8	340.3	336.1	334.0	332.0	336.1
60°	365.3	354.9	329.8	304.7	296.4	286.0	277.6	269.3	271.3
62.5°	319.4	308.9	286.0	261.0	252.5	237.9	227.6	217.1	221.3
65°	275.5	265.1	244.2	223.4	210.8	194.2	177.4	171.2	175.4
67.5°	235.9	227.6	206.6	185.8	175.4	156.6	139.8	139.8	142.0
70°	196.2	187.9	171.2	152.4	139.8	123.2	116.9	119.0	119.0
72.5°	160.8	154.5	137.8	121.0	108.6	98.1	98.1	100.2	102.3
75°	127.3	123.2	106.4	91.8	83.5	77.3	81.4	83.5	85.6
77.5°	98.1	91.8	79.3	68.8	62.7	64.7	68.8	71.0	73.0
80°	68.8	66.8	56.4	50.1	48.0	50.1	54.2	56.4	56.4
82.5°	43.9	41.7	35.4	33.4	33.4	35.4	39.7	39.7	39.7
85°	22.9	20.9	18.8	18.8	20.9	22.9	25.1	25.1	25.1
87.5°	8.3	6.3	8.3	8.3	10.5	10.5	10.5	10.5	10.5
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)