

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: P582231

Luminaire Tested: **HC630D010-HM63040930-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582231
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: HC630D010-HM63040930-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2616.0 lumens
Efficiency: N/A
Efficacy: 93.4 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

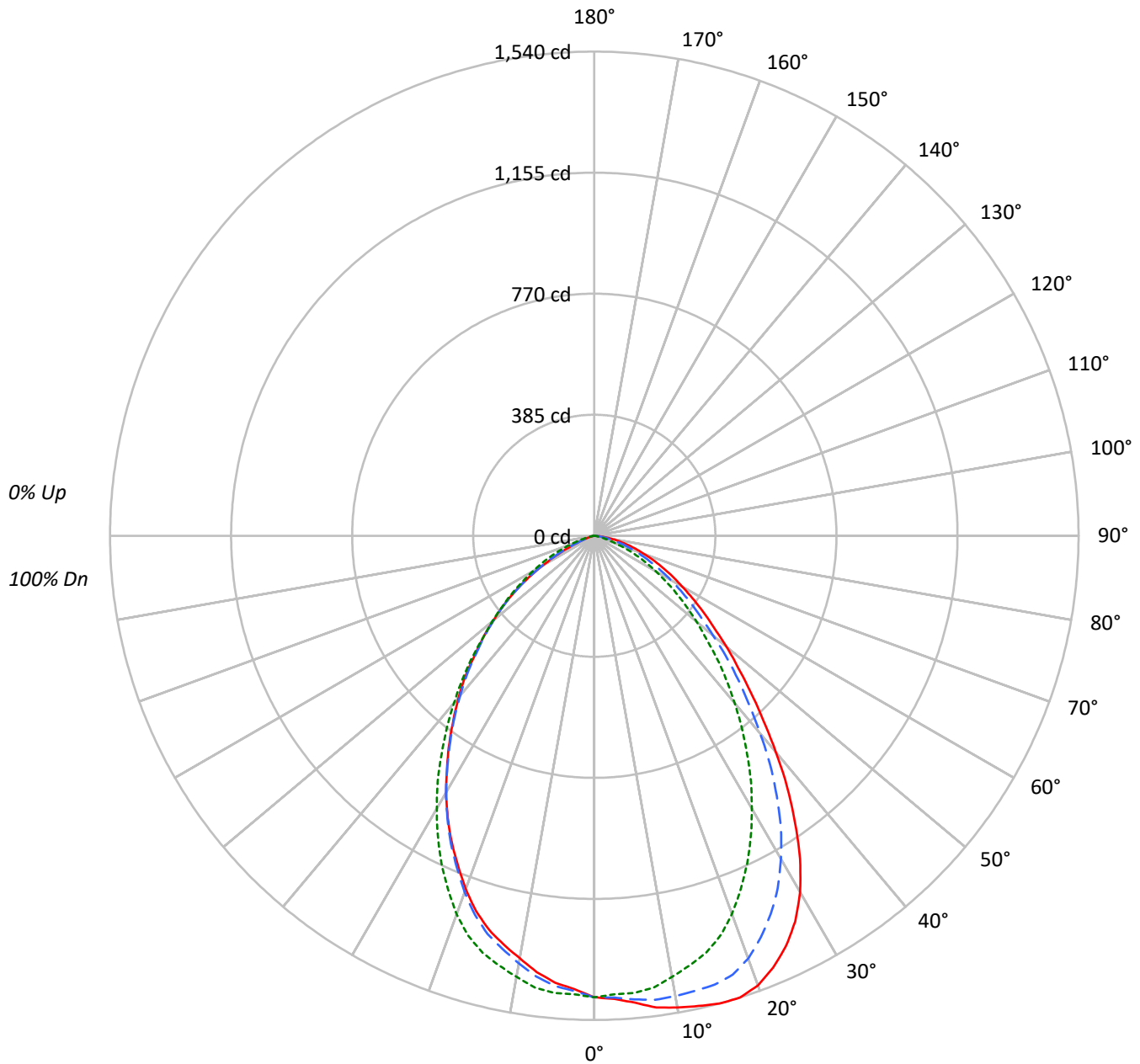
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	80471	80471	80471
5°	82027	80327	78511
10°	84818	79307	75967
15°	87413	77918	73587
20°	88774	74679	69738
25°	87168	69560	64945
30°	82861	63390	59598
35°	74472	56644	53753
40°	64278	49643	48019
45°	54424	42733	41617
50°	46668	36101	35743
55°	40457	30384	29208
60°	35315	24680	20832
65°	31067	19016	11519
70°	26815	12582	5626
75°	22748	6121	2182
80°	17616	2589	1326
85°	10378	1258	1258



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	5.3
10°-20°	391.7	15.0
20°-30°	551.7	21.1
30°-40°	563.6	21.5
40°-50°	454.4	17.4
50°-60°	304.8	11.7
60°-70°	154.3	5.9
70°-80°	49.3	1.9
80°-90°	7.6	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°	1081.9	41.4
0°-40°	1645.6	62.9
0°-60°	2404.8	91.9
0°-90°	2616.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2616.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1468	1468	1468	1468	1468	
5°	1491	1480	1460	1437	1427	144
15°	1540	1478	1373	1311	1297	435
25°	1441	1328	1150	1080	1074	660
35°	1113	1012	846	799	803	693
45°	702	646	551	533	537	546
55°	423	376	318	304	306	381
65°	240	198	147	97	89	239
75°	107	76	29	10	10	115
85°	16	8	2	2	2	22
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°	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9
2.5°	1474.1	1472.1	1470.1	1465.9	1459.7	1453.6	1449.4	1445.2	1443.2
5°	1490.6	1486.5	1480.3	1472.1	1459.7	1445.2	1437.0	1428.7	1426.7
7.5°	1513.4	1505.2	1488.6	1470.1	1449.4	1428.7	1414.3	1406.0	1399.8
10°	1523.7	1509.2	1486.5	1455.6	1424.7	1399.8	1381.3	1368.9	1364.7
12.5°	1531.9	1515.5	1482.4	1441.1	1399.8	1366.8	1346.2	1335.8	1331.7
15°	1540.2	1523.7	1478.3	1424.7	1372.9	1333.7	1311.0	1300.8	1296.6
17.5°	1540.2	1517.5	1463.8	1395.6	1333.7	1286.3	1263.6	1253.2	1251.2
20°	1521.7	1496.8	1430.8	1350.2	1280.1	1226.5	1205.8	1199.6	1195.4
22.5°	1486.5	1457.6	1383.3	1292.4	1216.1	1164.5	1141.8	1137.6	1133.5
25°	1441.1	1412.2	1327.5	1230.5	1150.0	1098.4	1079.8	1075.7	1073.7
27.5°	1383.3	1352.4	1263.6	1164.5	1077.7	1028.2	1011.7	1011.7	1009.6
30°	1309.0	1273.9	1187.2	1088.1	1001.4	956.0	943.6	943.6	941.5
32.5°	1218.1	1183.1	1104.6	1009.6	927.1	879.5	869.2	873.3	871.3
35°	1112.8	1083.9	1011.7	918.7	846.4	803.2	799.0	803.2	803.2
37.5°	1007.6	980.7	918.7	838.2	770.1	730.9	730.9	737.1	735.0
40°	898.2	877.5	819.7	749.4	693.7	666.9	662.7	668.9	671.0
42.5°	794.8	778.3	728.9	671.0	621.5	594.6	600.8	605.0	607.0
45°	702.0	685.5	646.2	586.4	551.2	532.7	532.7	538.9	536.8
47.5°	619.4	607.0	567.7	510.0	479.0	470.7	474.9	479.0	479.0
50°	547.2	528.5	491.4	446.0	423.3	412.9	417.1	419.1	419.1
52.5°	479.0	466.6	429.5	388.2	367.5	361.3	361.3	363.4	363.4
55°	423.3	408.8	375.7	334.5	317.9	309.7	303.6	301.4	305.6
57.5°	369.5	357.2	326.3	287.0	268.4	260.2	247.8	243.6	247.8
60°	322.1	311.8	280.8	243.6	225.1	208.6	194.0	185.8	190.0
62.5°	280.8	268.4	237.4	206.4	185.8	167.3	144.6	132.1	138.3
65°	239.5	229.1	198.2	167.3	146.6	123.9	97.0	88.8	88.8
67.5°	202.4	192.0	163.1	136.3	111.5	84.7	59.9	57.8	59.9
70°	167.3	156.9	132.1	105.3	78.5	51.6	35.1	35.1	35.1
72.5°	138.3	125.9	103.2	76.3	49.6	26.9	18.5	20.7	20.7
75°	107.4	97.0	76.3	51.6	28.9	12.4	10.3	10.3	10.3
77.5°	80.5	72.3	53.6	33.1	14.5	4.2	4.2	4.2	4.2
80°	55.8	47.4	35.1	20.7	8.2	4.2	4.2	4.2	4.2
82.5°	33.1	28.9	20.7	10.3	4.2	2.0	2.0	2.0	2.0
85°	16.5	14.5	8.2	4.2	2.0	2.0	2.0	2.0	2.0
87.5°	4.2	4.2	2.0	2.0	0.0	2.0	2.0	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)