

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: P593211

Luminaire Tested: **HC630D010-HM63040850-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593211
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-HM63040850-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3034.1 lumens
Efficiency: N/A
Efficacy: 108.4 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

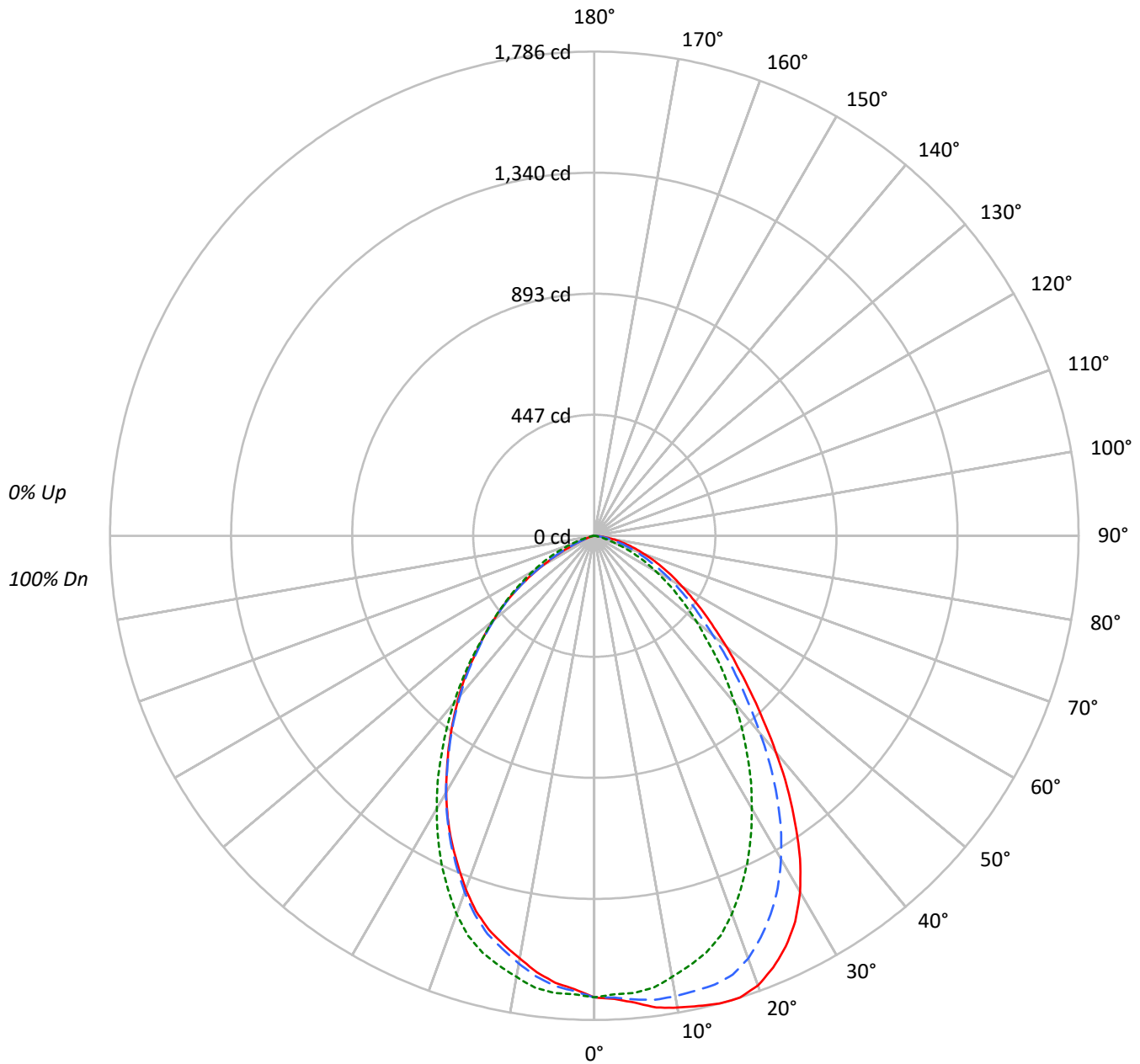
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	108	104	101	109	105	102	100		101	99	97			97	95	94			94
2	103	97	91	87	101	95	90	86		91	87	84			88	85	82			85
3	96	87	80	75	93	86	79	74		83	77	73			80	76	72			78
4	89	79	71	66	87	78	71	65		75	69	64			73	68	64			71
5	83	72	64	58	81	71	63	58		69	62	57			67	61	57			65
6	77	65	58	52	75	65	57	52		63	56	51			61	55	51			60
7	72	60	52	47	70	59	52	47		58	51	46			56	51	46			55
8	67	55	48	43	66	55	47	42		53	47	42			52	46	42			51
9	63	51	44	39	62	51	44	39		50	43	39			49	43	38			48
10	60	48	40	36	58	47	40	36		46	40	36			45	40	35			45

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	93337	93337	93337
5°	95141	93165	91057
10°	98378	91982	88113
15°	101391	90375	85347
20°	102956	86615	80886
25°	101105	80678	75319
30°	96103	73518	69125
35°	86384	65712	62346
40°	74547	57579	55697
45°	63123	49563	48269
50°	54122	41866	41457
55°	46918	35248	33872
60°	40962	28616	24154
65°	36035	22052	13361
70°	31079	14586	6524
75°	26370	7096	2542
80°	20426	3031	1515
85°	12014	1510	1510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.7	5.3
10°-20°	454.4	15.0
20°-30°	639.8	21.1
30°-40°	653.7	21.5
40°-50°	527.1	17.4
50°-60°	353.5	11.7
60°-70°	178.9	5.9
70°-80°	57.2	1.9
80°-90°	8.8	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°	1254.9	41.4
0°-40°	1908.6	62.9
0°-60°	2789.2	91.9
0°-90°	3034.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3034.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1703	1703	1703	1703	1703	
5°	1729	1717	1693	1667	1655	166
15°	1786	1714	1592	1521	1504	504
25°	1672	1540	1334	1252	1245	765
35°	1291	1173	982	927	932	803
45°	814	750	639	618	623	633
55°	491	436	369	352	354	442
65°	278	230	170	113	103	277
75°	124	89	34	12	12	134
85°	19	10	2	2	2	26
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°	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6
2.5°	1709.8	1707.4	1705.0	1700.3	1693.0	1685.9	1681.1	1676.3	1673.9
5°	1728.9	1724.2	1717.0	1707.4	1693.0	1676.3	1666.7	1657.1	1654.7
7.5°	1755.3	1745.7	1726.5	1705.0	1681.1	1657.1	1640.3	1630.8	1623.6
10°	1767.3	1750.6	1724.2	1688.3	1652.4	1623.6	1602.1	1587.7	1582.9
12.5°	1776.8	1757.7	1719.4	1671.5	1623.6	1585.3	1561.3	1549.4	1544.6
15°	1786.5	1767.3	1714.5	1652.4	1592.4	1547.0	1520.6	1508.6	1503.8
17.5°	1786.5	1760.1	1697.8	1618.8	1547.0	1491.8	1465.6	1453.6	1451.2
20°	1764.8	1736.2	1659.5	1566.2	1484.7	1422.4	1398.5	1391.4	1386.5
22.5°	1724.2	1690.6	1604.4	1499.1	1410.5	1350.6	1324.3	1319.4	1314.7
25°	1671.5	1638.0	1539.8	1427.3	1333.8	1274.0	1252.4	1247.6	1245.2
27.5°	1604.4	1568.5	1465.6	1350.6	1250.0	1192.6	1173.4	1173.4	1171.0
30°	1518.2	1477.6	1377.0	1262.0	1161.4	1108.7	1094.4	1094.4	1092.0
32.5°	1412.9	1372.1	1281.1	1171.0	1075.2	1020.2	1008.2	1012.9	1010.5
35°	1290.8	1257.2	1173.4	1065.6	981.9	931.6	926.7	931.6	931.6
37.5°	1168.5	1137.5	1065.6	972.2	893.2	847.8	847.8	854.9	852.5
40°	1041.7	1017.8	950.7	869.3	804.6	773.4	768.7	775.8	778.3
42.5°	922.0	902.8	845.4	778.3	720.8	689.6	696.9	701.6	704.0
45°	814.2	795.1	749.5	680.1	639.3	617.8	617.8	625.1	622.6
47.5°	718.4	704.0	658.6	591.5	555.6	546.0	550.7	555.6	555.6
50°	634.6	613.0	569.9	517.2	490.9	478.9	483.7	486.1	486.1
52.5°	555.6	541.2	498.1	450.2	426.3	419.1	419.1	421.5	421.5
55°	490.9	474.2	435.9	388.0	368.8	359.2	352.1	349.6	354.4
57.5°	428.6	414.2	378.3	332.9	311.3	301.8	287.4	282.6	287.4
60°	373.6	361.6	325.7	282.6	261.0	241.8	225.1	215.6	220.3
62.5°	325.7	311.3	275.4	239.5	215.6	193.9	167.6	153.3	160.4
65°	277.8	265.9	229.8	193.9	170.0	143.6	112.6	103.0	103.0
67.5°	234.7	222.7	189.2	158.0	129.4	98.2	69.4	67.1	69.4
70°	193.9	182.0	153.3	122.1	91.0	59.9	40.7	40.7	40.7
72.5°	160.4	146.1	119.7	88.6	57.4	31.2	21.5	23.9	23.9
75°	124.5	112.6	88.6	59.9	33.5	14.4	12.0	12.0	12.0
77.5°	93.3	83.8	62.3	38.3	16.8	4.8	4.8	4.8	4.8
80°	64.7	55.1	40.7	23.9	9.6	4.8	4.8	4.8	4.8
82.5°	38.3	33.5	23.9	12.0	4.8	2.4	2.4	2.4	2.4
85°	19.1	16.8	9.6	4.8	2.4	2.4	2.4	2.4	2.4
87.5°	4.8	4.8	2.4	2.4	0.0	2.4	2.4	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)