

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: P582537

Luminaire Tested: **HC640D010-HM63040935-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582537
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: HC640D010-HM63040935-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3558.7 lumens
Efficiency: N/A
Efficacy: 86.8 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

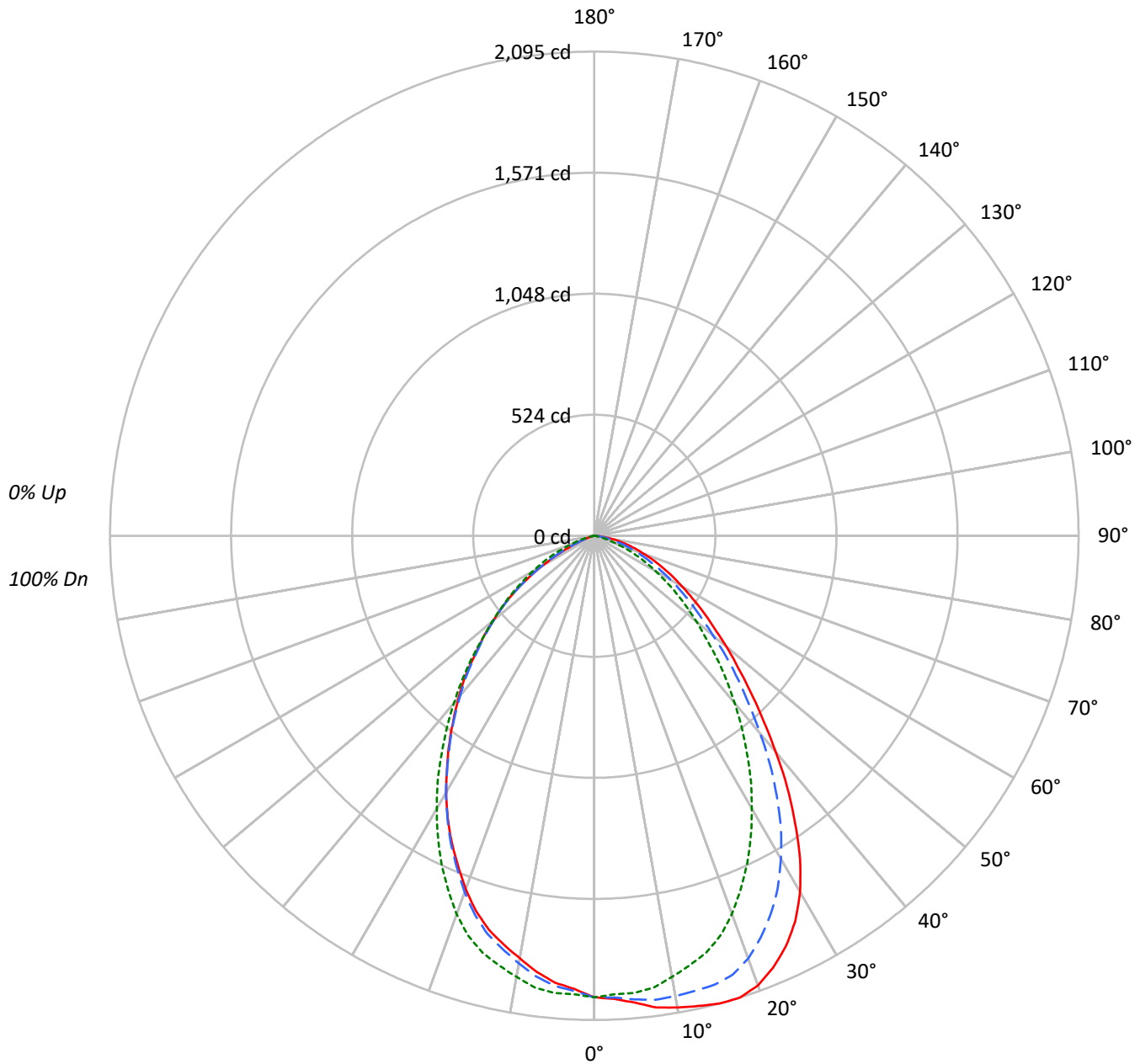
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89		
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78		
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69		
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61		
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54		
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49		
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44		
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40		
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37		
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	109476	109476	109476
5°	111589	109278	106801
10°	115384	107880	103344
15°	118911	105999	100108
20°	120760	101585	94870
25°	118579	94632	88342
30°	112714	86235	81069
35°	101308	77069	73113
40°	87435	67534	65330
45°	74039	58138	56611
50°	63478	49099	48630
55°	55023	41337	39731
60°	48044	33561	28331
65°	42261	25865	15670
70°	36464	17102	7646
75°	30924	8324	2965
80°	23930	3536	1799
85°	14089	1761	1761



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.4	5.3
10°-20°	532.9	15.0
20°-30°	750.5	21.1
30°-40°	766.7	21.5
40°-50°	618.2	17.4
50°-60°	414.6	11.7
60°-70°	209.8	5.9
70°-80°	67.1	1.9
80°-90°	10.3	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°	1471.8	41.4
0°-40°	2238.6	62.9
0°-60°	3271.4	91.9
0°-90°	3558.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3558.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1997	1997	1997	1997	1997	
5°	2028	2014	1986	1955	1941	195
15°	2095	2011	1868	1784	1764	592
25°	1960	1806	1564	1469	1460	898
35°	1514	1376	1152	1087	1092	942
45°	955	879	750	725	730	743
55°	576	511	432	413	416	518
65°	326	270	199	132	121	325
75°	146	104	39	14	14	157
85°	22	11	3	3	3	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°	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0
2.5°	2005.4	2002.6	1999.7	1994.2	1985.8	1977.3	1971.6	1966.1	1963.2
5°	2027.8	2022.3	2013.8	2002.6	1985.8	1966.1	1954.9	1943.5	1940.8
7.5°	2058.7	2047.5	2025.1	1999.7	1971.6	1943.5	1923.9	1912.7	1904.2
10°	2072.8	2053.2	2022.3	1980.1	1938.0	1904.2	1879.0	1862.2	1856.5
12.5°	2084.0	2061.6	2016.6	1960.4	1904.2	1859.4	1831.3	1817.2	1811.6
15°	2095.2	2072.8	2010.9	1938.0	1867.7	1814.4	1783.6	1769.4	1763.9
17.5°	2095.2	2064.4	1991.3	1898.7	1814.4	1749.8	1718.9	1704.8	1702.0
20°	2070.0	2036.3	1946.4	1836.8	1741.3	1668.4	1640.3	1631.9	1626.2
22.5°	2022.3	1983.0	1881.8	1758.2	1654.3	1584.1	1553.3	1547.6	1541.9
25°	1960.4	1921.1	1806.0	1673.9	1564.5	1494.2	1469.0	1463.3	1460.5
27.5°	1881.8	1839.7	1718.9	1584.1	1466.1	1398.7	1376.2	1376.2	1373.5
30°	1780.6	1732.9	1615.0	1480.2	1362.3	1300.4	1283.5	1283.5	1280.7
32.5°	1657.1	1609.3	1502.6	1373.5	1261.1	1196.5	1182.5	1188.0	1185.3
35°	1513.8	1474.5	1376.2	1249.9	1151.6	1092.5	1087.0	1092.5	1092.5
37.5°	1370.6	1334.2	1249.9	1140.3	1047.7	994.3	994.3	1002.7	999.9
40°	1221.8	1193.7	1115.1	1019.6	943.7	907.2	901.5	910.0	912.9
42.5°	1081.3	1058.9	991.5	912.9	845.3	808.9	817.4	822.9	825.7
45°	955.0	932.5	879.1	797.6	749.9	724.7	724.7	733.1	730.2
47.5°	842.6	825.7	772.4	693.8	651.6	640.4	646.0	651.6	651.6
50°	744.3	719.0	668.5	606.6	575.7	561.8	567.3	570.2	570.2
52.5°	651.6	634.7	584.2	528.0	499.9	491.5	491.5	494.4	494.4
55°	575.7	556.1	511.1	455.1	432.5	421.3	412.8	410.1	415.7
57.5°	502.8	485.9	443.7	390.4	365.1	353.9	337.0	331.5	337.0
60°	438.2	424.1	382.0	331.5	306.1	283.7	264.1	252.7	258.4
62.5°	382.0	365.1	323.0	280.8	252.7	227.5	196.7	179.8	188.2
65°	325.8	311.8	269.6	227.5	199.4	168.6	132.0	120.8	120.8
67.5°	275.3	261.2	221.9	185.3	151.7	115.1	81.5	78.6	81.5
70°	227.5	213.4	179.8	143.2	106.7	70.2	47.7	47.7	47.7
72.5°	188.2	171.3	140.5	103.9	67.4	36.5	25.3	28.1	28.1
75°	146.0	132.0	103.9	70.2	39.3	16.9	14.0	14.0	14.0
77.5°	109.5	98.3	73.1	45.0	19.7	5.7	5.7	5.7	5.7
80°	75.8	64.6	47.7	28.1	11.2	5.7	5.7	5.7	5.7
82.5°	45.0	39.3	28.1	14.0	5.7	2.8	2.8	2.8	2.8
85°	22.4	19.7	11.2	5.7	2.8	2.8	2.8	2.8	2.8
87.5°	5.7	5.7	2.8	2.8	0.0	2.8	2.8	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)