

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: P582531

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582531
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: HC640D010-HM63040935-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4199.1 lumens
Efficiency: N/A
Efficacy: 102.4 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

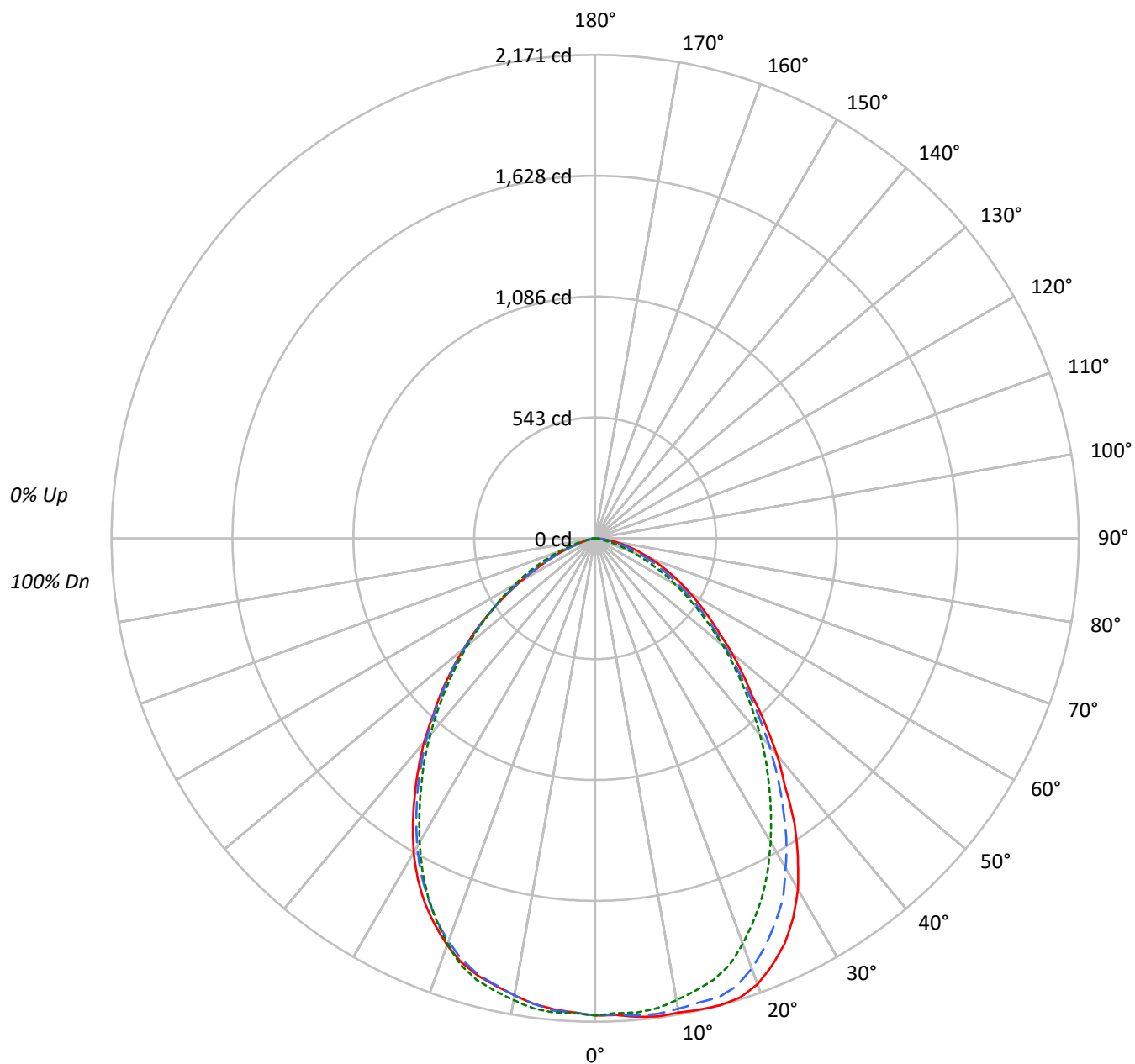
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	104	101	108	105	102	99		101	98	96			97	95	93			93
2	103	96	90	85	100	94	89	84		91	86	83			87	84	81			85
3	95	86	79	74	93	84	78	73		82	76	72			79	74	70			77
4	88	78	70	64	86	76	69	64		74	68	63			72	66	62			70
5	82	70	62	57	80	69	62	56		67	61	56			65	60	55			64
6	76	64	56	50	74	63	56	50		61	55	50			60	54	49			58
7	71	59	51	45	69	58	50	45		56	50	45			55	49	44			54
8	66	54	46	41	65	53	46	41		52	45	41			51	45	40			50
9	62	50	42	37	61	49	42	37		48	42	37			47	41	37			46
10	59	46	39	34	57	46	39	34		45	38	34			44	38	34			43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	117480	117480	117480
5°	118699	117615	116844
10°	120383	117255	116008
15°	123219	116516	115404
20°	124366	113054	113381
25°	121634	107365	109403
30°	115208	99731	103117
35°	104320	91156	94536
40°	90849	82404	85424
45°	77086	72938	75558
50°	68271	63716	65388
55°	60136	54497	54220
60°	53888	45884	42190
65°	48099	36800	30237
70°	42331	26559	18897
75°	35711	16055	10696
80°	27497	7072	4420
85°	15913	1761	1761



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.4	4.8
10°-20°	584.6	13.9
20°-30°	845.1	20.1
30°-40°	889.2	21.2
40°-50°	747.5	17.8
50°-60°	524.7	12.5
60°-70°	288.6	6.9
70°-80°	102.5	2.4
80°-90°	13.4	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°	1633.1	38.9
0°-40°	2522.4	60.1
0°-60°	3794.6	90.4
0°-90°	4199.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4199.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2143	2143	2143	2143	2143	
5°	2157	2151	2137	2129	2123	206
15°	2171	2134	2053	2028	2033	613
25°	2011	1910	1775	1778	1809	920
35°	1559	1469	1362	1390	1413	966
45°	994	966	941	963	975	780
55°	629	595	570	570	567	566
65°	371	332	284	233	233	369
75°	169	135	76	50	50	181
85°	25	14	3	3	3	35
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°	2143.0	2143.0	2143.0	2143.0	2143.0	2143.0	2143.0	2143.0	2143.0
2.5°	2143.0	2143.0	2140.1	2140.1	2134.5	2134.5	2131.8	2131.8	2131.8
5°	2157.0	2157.0	2151.4	2143.0	2137.3	2128.9	2128.9	2126.1	2123.3
7.5°	2165.4	2162.6	2154.2	2143.0	2128.9	2114.9	2109.2	2112.0	2109.2
10°	2162.6	2157.0	2145.7	2123.3	2106.4	2086.8	2084.0	2081.1	2084.0
12.5°	2168.2	2159.7	2137.3	2109.2	2081.1	2058.7	2055.9	2055.9	2058.7
15°	2171.1	2162.6	2134.5	2092.3	2053.0	2030.6	2027.8	2030.6	2033.4
17.5°	2162.6	2151.4	2109.2	2053.0	2008.2	1985.6	1985.6	1991.3	1996.8
20°	2131.8	2114.9	2055.9	1988.5	1937.9	1921.1	1926.7	1937.9	1943.5
22.5°	2075.6	2055.9	1988.5	1912.7	1859.3	1845.3	1859.3	1873.4	1878.9
25°	2010.9	1988.5	1909.8	1831.2	1775.0	1758.2	1777.9	1800.3	1808.7
27.5°	1923.9	1898.6	1825.6	1735.7	1679.5	1671.0	1693.6	1718.8	1724.5
30°	1820.0	1791.9	1710.5	1626.2	1575.5	1572.8	1598.1	1620.5	1629.0
32.5°	1693.6	1668.3	1598.1	1513.8	1468.8	1468.8	1494.2	1513.8	1522.3
35°	1558.8	1530.7	1468.8	1398.7	1362.1	1364.9	1390.2	1404.3	1412.6
37.5°	1398.7	1390.2	1342.5	1283.5	1258.2	1263.9	1283.5	1294.7	1303.2
40°	1269.5	1247.0	1216.1	1168.4	1151.5	1157.2	1176.8	1188.0	1193.7
42.5°	1129.1	1115.0	1089.8	1056.0	1044.8	1053.2	1070.1	1078.5	1075.6
45°	994.3	991.4	966.2	946.5	940.8	952.1	963.4	971.7	974.6
47.5°	896.0	884.7	862.2	848.2	842.6	853.8	865.0	870.7	870.7
50°	800.5	789.2	766.7	752.8	747.1	758.3	766.7	772.4	766.7
52.5°	705.0	693.7	674.0	657.3	654.4	660.0	662.8	665.6	671.2
55°	629.2	617.8	595.4	575.7	570.2	573.0	570.2	570.2	567.3
57.5°	556.1	544.9	522.5	499.9	491.5	488.7	480.2	477.5	474.7
60°	491.5	477.5	454.9	429.7	418.5	407.3	393.2	384.8	384.8
62.5°	429.7	415.6	390.4	367.9	351.1	331.5	308.9	297.7	297.7
65°	370.8	359.6	331.5	306.1	283.7	258.4	233.1	227.5	233.1
67.5°	314.6	303.4	275.3	250.0	221.9	191.0	168.6	168.6	174.1
70°	264.1	252.7	227.5	196.7	165.7	134.8	117.9	117.9	117.9
72.5°	216.3	205.0	176.9	148.9	117.9	87.1	78.6	81.5	78.6
75°	168.6	160.1	134.8	103.9	75.8	53.4	50.5	47.7	50.5
77.5°	126.4	117.9	95.5	67.4	42.1	30.9	28.1	28.1	28.1
80°	87.1	78.6	61.7	39.3	22.4	14.0	14.0	14.0	14.0
82.5°	53.4	45.0	33.8	19.7	8.4	8.4	8.4	8.4	8.4
85°	25.3	19.7	14.0	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)