

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: P582520

Luminaire Tested: **HC640D010-HM63040930-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040930-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3942.5 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

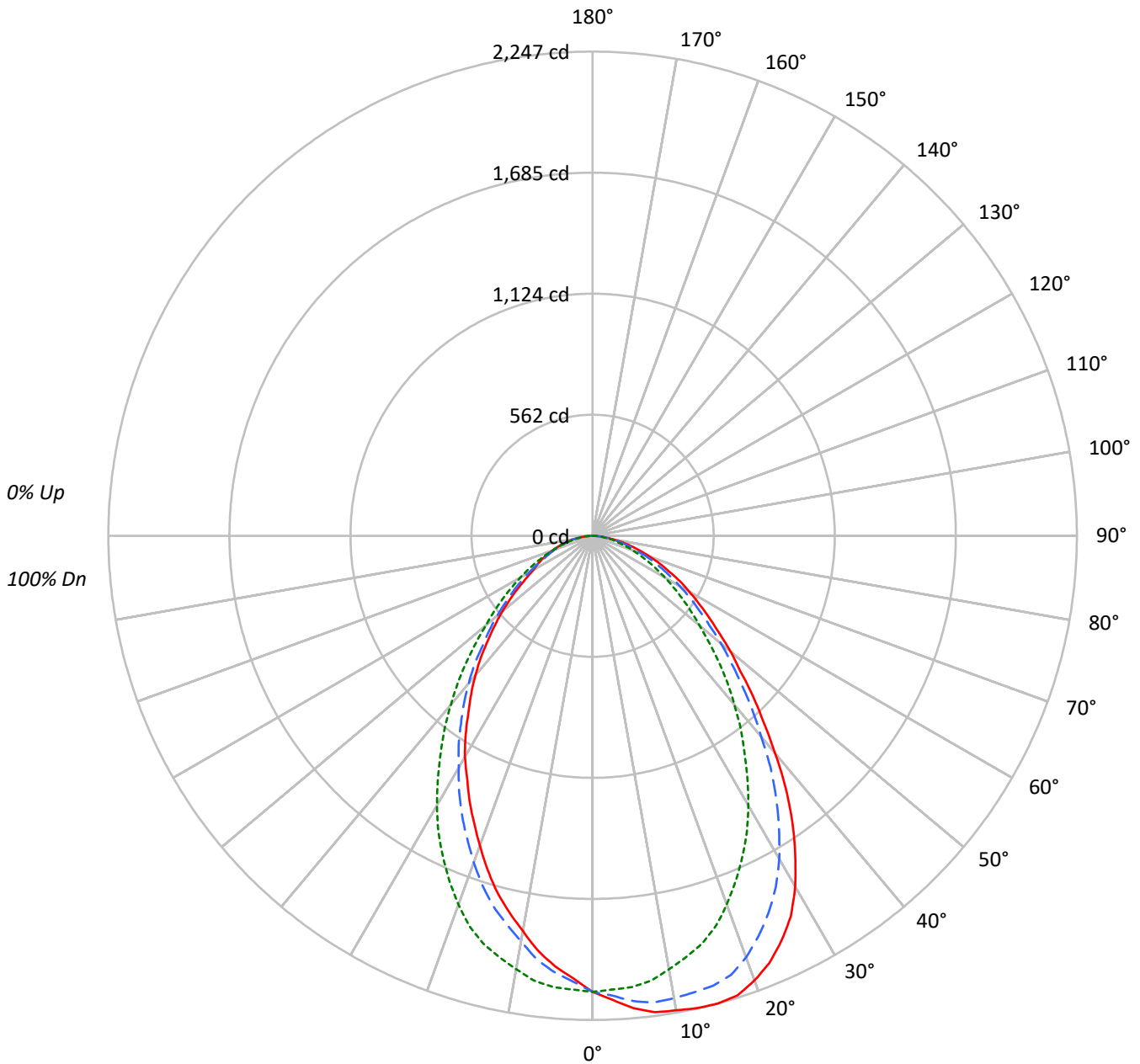
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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	100	100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87	87	87	87
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76	76	76	76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66	66	66	66
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58	58	58	58
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51	51	51	51
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46	46	46	46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42	42	42	42
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38	38	38	38
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34	34	34	34
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32	32	32	32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	116027	116027	116027
5°	121170	115683	110356
10°	124474	113686	103705
15°	127549	111227	97157
20°	128117	106188	89234
25°	125433	99417	81839
30°	119006	91419	75012
35°	108087	82161	67291
40°	94176	73180	60542
45°	81489	64045	53223
50°	71187	55145	46642
55°	62889	48457	40027
60°	56531	42475	34668
65°	50628	36956	33622
70°	45200	31496	31496
75°	39227	26540	29569
80°	31475	22478	26992
85°	21511	19750	23336



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.9	5.0
10°-20°	552.9	14.0
20°-30°	770.6	19.5
30°-40°	794.0	20.1
40°-50°	658.0	16.7
50°-60°	472.9	12.0
60°-70°	301.2	7.6
70°-80°	154.7	3.9
80°-90°	39.3	1.0
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°	1522.4	38.6
0°-40°	2316.4	58.8
0°-60°	3447.3	87.4
0°-90°	3942.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3942.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2116	2116	2116	2116	2116	
5°	2202	2168	2102	2034	2005	211
15°	2247	2162	1960	1780	1712	633
25°	2074	1931	1644	1433	1353	950
35°	1615	1484	1228	1065	1006	1003
45°	1051	977	826	721	686	814
55°	658	604	507	450	419	593
65°	390	348	285	248	259	391
75°	185	160	125	131	140	197
85°	34	31	31	34	37	44
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°	2116.5	2116.5	2116.5	2116.5	2116.5	2116.5	2116.5	2116.5	2116.5
2.5°	2156.3	2147.7	2136.4	2125.0	2107.9	2088.0	2070.8	2065.2	2056.6
5°	2201.9	2190.5	2167.8	2139.3	2102.2	2065.2	2033.9	2013.8	2005.4
7.5°	2230.4	2216.2	2184.8	2136.4	2082.3	2028.1	1982.6	1954.1	1942.6
10°	2236.1	2221.9	2179.1	2113.6	2042.3	1968.3	1911.4	1877.2	1863.0
12.5°	2244.7	2224.6	2170.5	2093.6	2002.5	1917.0	1845.8	1803.1	1788.8
15°	2247.4	2224.6	2162.0	2068.1	1959.8	1857.3	1780.3	1729.1	1711.9
17.5°	2236.1	2210.4	2136.4	2022.4	1900.0	1791.7	1700.6	1646.4	1623.7
20°	2196.1	2167.8	2082.3	1954.1	1820.2	1706.3	1612.2	1555.2	1529.6
22.5°	2145.0	2107.9	2011.1	1874.3	1734.7	1615.1	1521.1	1464.1	1438.5
25°	2073.7	2039.6	1931.3	1786.1	1643.6	1518.3	1432.8	1372.9	1353.0
27.5°	1991.2	1951.2	1840.1	1694.9	1549.6	1424.3	1341.7	1287.5	1261.9
30°	1880.0	1843.0	1731.8	1586.6	1444.2	1327.4	1242.0	1196.3	1185.0
32.5°	1749.0	1717.6	1609.4	1472.7	1336.0	1227.7	1156.5	1108.1	1096.6
35°	1615.1	1578.1	1484.0	1355.9	1227.7	1130.9	1065.4	1022.6	1005.5
37.5°	1469.9	1435.6	1355.9	1242.0	1128.0	1036.9	979.9	942.8	925.8
40°	1316.0	1290.4	1216.2	1125.1	1022.6	942.8	894.4	863.2	846.0
42.5°	1173.6	1147.9	1096.6	1011.3	925.8	854.6	811.8	783.4	769.1
45°	1051.1	1028.3	977.0	903.0	826.1	766.2	720.7	700.8	686.5
47.5°	928.6	917.2	871.6	803.3	732.0	680.7	649.5	626.7	615.3
50°	834.7	820.4	777.7	706.5	646.6	606.7	578.2	558.3	546.9
52.5°	737.7	723.5	683.6	623.9	575.3	538.4	509.9	492.8	481.4
55°	658.0	646.6	603.8	549.8	507.0	475.8	450.0	430.1	418.8
57.5°	583.9	572.6	532.6	481.4	444.4	415.9	393.1	376.0	361.8
60°	515.6	507.0	467.2	418.8	387.4	358.9	339.0	324.7	316.2
62.5°	455.7	438.7	404.5	361.8	333.3	310.5	290.6	282.0	287.7
65°	390.3	381.7	347.6	310.5	284.9	262.1	247.8	253.5	259.2
67.5°	336.1	324.7	296.2	262.1	239.3	222.1	213.7	225.0	227.9
70°	282.0	270.7	244.9	216.4	196.5	185.2	185.2	193.8	196.5
72.5°	230.7	222.1	199.4	176.6	162.4	153.8	159.5	165.3	168.0
75°	185.2	176.6	159.5	139.6	125.3	125.3	131.0	136.8	139.6
77.5°	142.5	136.8	119.6	105.4	99.7	99.7	105.4	108.3	111.1
80°	99.7	94.0	85.5	76.9	71.2	76.9	82.6	82.6	85.5
82.5°	65.6	62.7	57.0	51.3	51.3	54.1	57.0	59.9	59.9
85°	34.2	34.2	31.4	28.5	31.4	34.2	34.2	37.1	37.1
87.5°	11.3	11.3	11.3	11.3	14.2	14.2	14.2	14.2	14.2
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)