

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: P582422

Luminaire Tested: **HC640D010-HM63040827-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040827-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4208.5 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

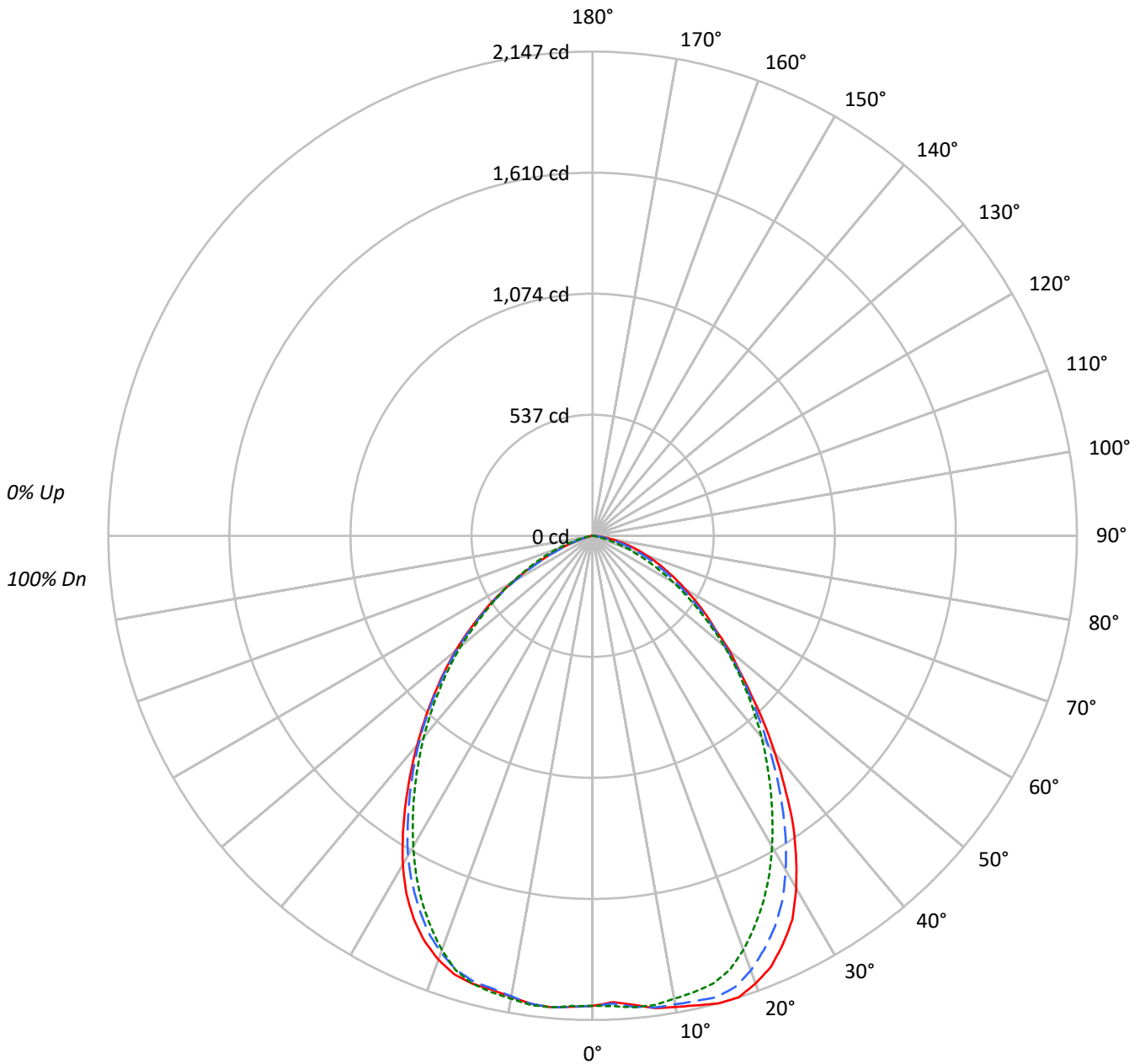
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88			88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68			68
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60			60
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			53
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47			47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42			42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38			38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32			32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	114273	114273	114273
5°	114863	115491	115491
10°	118078	116035	115568
15°	121834	116703	116703
20°	123257	114028	116671
25°	120793	108321	113444
30°	114252	100661	106561
35°	103403	92059	96597
40°	89954	83285	86512
45°	76868	74240	76868
50°	67452	65038	67699
55°	58846	54803	56954
60°	52035	45523	44898
65°	46166	35918	30782
70°	40744	25341	18561
75°	34694	14361	8960
80°	25856	4451	2652
85°	14215	1761	1761



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.0	4.8
10°-20°	585.0	13.9
20°-30°	854.5	20.3
30°-40°	896.1	21.3
40°-50°	754.9	17.9
50°-60°	528.9	12.6
60°-70°	283.6	6.7
70°-80°	95.1	2.3
80°-90°	10.4	0.2
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°	1639.4	39.0
0°-40°	2535.5	60.2
0°-60°	3819.4	90.8
0°-90°	4208.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4208.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2084	2084	2084	2084	2084	
5°	2087	2096	2099	2099	2099	201
15°	2147	2118	2056	2045	2056	606
25°	1997	1912	1791	1822	1876	915
35°	1545	1466	1376	1415	1443	959
45°	992	974	958	983	992	772
55°	616	596	573	585	596	554
65°	356	325	277	229	237	355
75°	164	127	68	42	42	174
85°	23	11	3	3	3	31
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°	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5	2084.5
2.5°	2070.4	2070.4	2076.1	2081.8	2087.3	2087.3	2090.2	2093.0	2090.2
5°	2087.3	2087.3	2095.9	2098.7	2098.7	2095.9	2098.7	2098.7	2098.7
7.5°	2112.8	2107.1	2110.0	2104.3	2098.7	2095.9	2093.0	2093.0	2093.0
10°	2121.2	2115.7	2110.0	2098.7	2084.5	2076.1	2073.2	2076.1	2076.1
12.5°	2132.6	2126.9	2112.8	2090.2	2073.2	2059.1	2056.3	2062.0	2062.0
15°	2146.7	2141.0	2118.4	2081.8	2056.3	2042.2	2045.0	2050.6	2056.3
17.5°	2146.7	2135.3	2098.7	2050.6	2019.5	2005.4	2016.8	2030.9	2039.3
20°	2112.8	2101.6	2050.6	1991.3	1954.6	1946.2	1966.0	1991.3	1999.9
22.5°	2067.7	2045.0	1985.8	1915.1	1875.5	1875.5	1903.7	1934.8	1946.2
25°	1997.0	1980.1	1912.3	1830.4	1790.8	1787.9	1821.8	1864.3	1875.5
27.5°	1918.0	1895.3	1821.8	1737.1	1694.8	1697.6	1734.4	1776.7	1787.9
30°	1804.9	1776.7	1711.7	1629.8	1590.2	1601.5	1638.3	1669.3	1683.4
32.5°	1677.8	1652.4	1593.1	1516.8	1483.0	1494.2	1525.3	1553.5	1564.9
35°	1545.1	1516.8	1465.9	1398.1	1375.6	1386.9	1415.2	1437.7	1443.4
37.5°	1395.4	1375.6	1338.9	1285.2	1268.2	1282.3	1305.0	1319.1	1324.7
40°	1257.0	1240.0	1208.9	1169.4	1163.8	1175.1	1197.7	1206.1	1208.9
42.5°	1121.4	1107.3	1087.5	1059.3	1059.3	1070.5	1090.3	1096.0	1098.7
45°	991.5	982.9	974.5	951.9	957.6	971.7	982.9	991.5	991.5
47.5°	878.5	881.2	870.0	853.0	858.7	872.8	881.2	889.8	889.8
50°	790.9	782.4	771.1	754.2	762.6	774.0	785.2	790.9	793.8
52.5°	689.2	686.4	678.0	658.2	663.7	669.4	680.7	689.2	692.1
55°	615.7	607.3	595.9	573.4	573.4	579.0	584.7	590.4	595.9
57.5°	545.1	536.7	519.7	494.4	491.5	491.5	488.7	494.4	502.8
60°	474.6	471.7	446.3	423.7	415.2	406.8	395.4	398.2	409.5
62.5°	412.5	406.8	384.1	355.9	339.0	324.9	310.8	307.9	319.2
65°	355.9	350.2	324.9	296.6	276.9	251.4	228.8	228.8	237.3
67.5°	305.1	293.7	271.2	240.1	214.7	183.6	161.0	166.6	169.5
70°	254.2	245.7	220.3	189.3	158.1	127.2	113.0	115.8	115.8
72.5°	209.1	197.7	172.3	141.3	110.1	81.9	76.2	73.5	73.5
75°	163.8	152.5	127.2	96.0	67.8	48.0	42.3	42.3	42.3
77.5°	118.6	110.1	87.6	59.4	36.7	22.6	19.8	16.9	16.9
80°	81.9	73.5	53.7	31.1	14.1	8.4	8.4	8.4	8.4
82.5°	48.0	39.6	25.5	14.1	5.7	2.8	2.8	2.8	2.8
85°	22.6	16.9	11.3	5.7	2.8	2.8	2.8	2.8	2.8
87.5°	2.8	2.8	2.8	0.0	0.0	0.0	0.0	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)