

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: P582530

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582530
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-HM63040935-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4185.0 lumens
Efficiency: N/A
Efficacy: 102.1 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

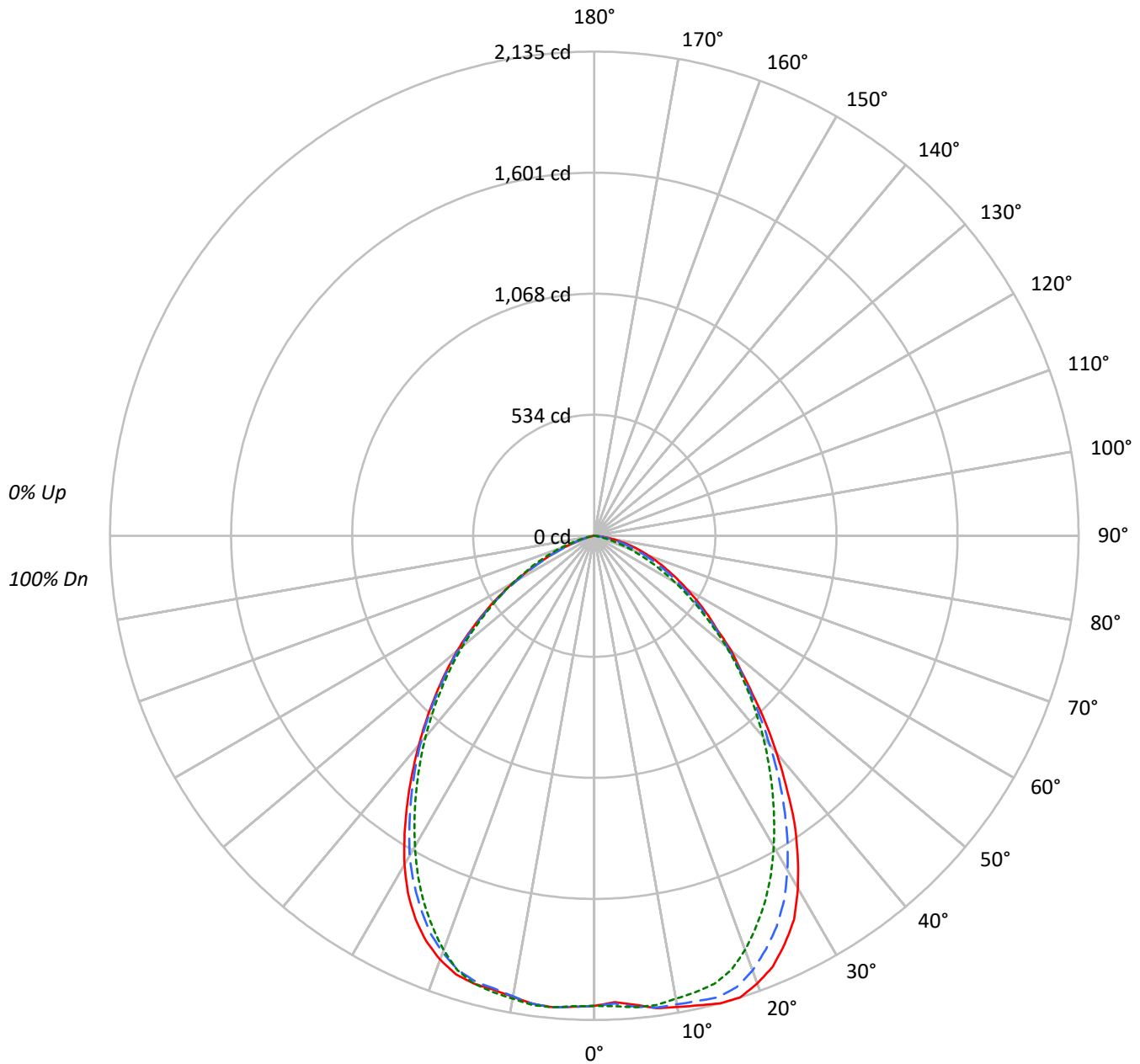
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	113637	113637	113637
5°	114225	114841	114841
10°	117427	115390	114922
15°	121153	116051	116051
20°	122569	113392	116018
25°	120122	107716	112815
30°	113619	100098	105972
35°	102827	91544	96055
40°	89446	82819	86025
45°	76442	73822	76442
50°	67077	64680	67315
55°	58521	54497	56638
60°	51739	45260	44657
65°	45906	35711	30613
70°	40536	25229	18449
75°	34504	14276	8917
80°	25729	4420	2652
85°	14089	1761	1761



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.8	4.8
10°-20°	581.8	13.9
20°-30°	849.7	20.3
30°-40°	891.1	21.3
40°-50°	750.7	17.9
50°-60°	526.0	12.6
60°-70°	282.0	6.7
70°-80°	94.6	2.3
80°-90°	10.3	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°	1630.3	39.0
0°-40°	2521.4	60.2
0°-60°	3798.1	90.8
0°-90°	4185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4185.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2073	2073	2073	2073	2073	
5°	2076	2084	2087	2087	2087	200
15°	2135	2107	2045	2034	2045	602
25°	1986	1902	1781	1812	1865	910
35°	1536	1458	1368	1407	1435	954
45°	986	969	952	978	986	768
55°	612	593	570	581	593	551
65°	354	323	275	228	236	353
75°	163	126	67	42	42	173
85°	22	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°	2072.9	2072.9	2072.9	2072.9	2072.9	2072.9	2072.9	2072.9	2072.9
2.5°	2058.8	2058.8	2064.5	2070.2	2075.7	2075.7	2078.6	2081.4	2078.6
5°	2075.7	2075.7	2084.2	2086.9	2086.9	2084.2	2086.9	2086.9	2086.9
7.5°	2101.0	2095.4	2098.3	2092.6	2086.9	2084.2	2081.4	2081.4	2081.4
10°	2109.5	2103.8	2098.3	2086.9	2072.9	2064.5	2061.7	2064.5	2064.5
12.5°	2120.7	2115.0	2101.0	2078.6	2061.7	2047.6	2044.8	2050.5	2050.5
15°	2134.7	2129.1	2106.7	2070.2	2044.8	2030.9	2033.6	2039.2	2044.8
17.5°	2134.7	2123.5	2086.9	2039.2	2008.3	1994.3	2005.5	2019.5	2028.0
20°	2101.0	2089.8	2039.2	1980.2	1943.7	1935.2	1955.0	1980.2	1988.7
22.5°	2056.1	2033.6	1974.7	1904.4	1865.1	1865.1	1893.2	1924.0	1935.2
25°	1985.9	1969.0	1901.6	1820.1	1780.8	1778.0	1811.8	1853.9	1865.1
27.5°	1907.3	1884.7	1811.8	1727.5	1685.3	1688.2	1724.6	1766.8	1778.0
30°	1794.9	1766.8	1702.2	1620.7	1581.3	1592.6	1629.1	1660.1	1674.1
32.5°	1668.4	1643.2	1584.3	1508.4	1474.6	1485.9	1516.7	1544.8	1556.2
35°	1536.5	1508.4	1457.8	1390.4	1367.9	1379.1	1407.2	1429.7	1435.3
37.5°	1387.6	1367.9	1331.4	1278.0	1261.2	1275.2	1297.6	1311.7	1317.4
40°	1249.9	1233.1	1202.1	1162.8	1157.3	1168.5	1190.9	1199.4	1202.1
42.5°	1115.1	1101.1	1081.4	1053.4	1053.4	1064.6	1084.2	1089.9	1092.7
45°	986.0	977.5	969.1	946.6	952.2	966.3	977.5	986.0	986.0
47.5°	873.6	876.3	865.1	848.2	853.9	867.9	876.3	884.8	884.8
50°	786.5	778.1	766.9	750.0	758.4	769.6	780.8	786.5	789.3
52.5°	685.4	682.6	674.1	654.5	660.0	665.7	676.9	685.4	688.1
55°	612.3	604.0	592.6	570.2	570.2	575.9	581.4	587.1	592.6
57.5°	542.1	533.7	516.8	491.6	488.7	488.7	485.9	491.6	500.0
60°	471.9	469.0	443.8	421.3	412.8	404.5	393.2	396.1	407.3
62.5°	410.1	404.5	382.0	353.9	337.0	323.0	308.9	306.1	317.4
65°	353.9	348.3	323.0	294.9	275.3	250.0	227.5	227.5	236.0
67.5°	303.4	292.2	269.6	238.7	213.4	182.5	160.1	165.7	168.6
70°	252.9	244.4	219.1	188.2	157.4	126.4	112.4	115.1	115.1
72.5°	207.9	196.7	171.3	140.5	109.6	81.5	75.8	73.1	73.1
75°	162.9	151.7	126.4	95.5	67.4	47.7	42.1	42.1	42.1
77.5°	117.9	109.6	87.1	59.0	36.5	22.4	19.7	16.9	16.9
80°	81.5	73.1	53.4	30.9	14.0	8.4	8.4	8.4	8.4
82.5°	47.7	39.3	25.3	14.0	5.7	2.8	2.8	2.8	2.8
85°	22.4	16.9	11.2	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)