

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: P582423

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582423
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-HM63040827-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4222.6 lumens
Efficiency: N/A
Efficacy: 103.0 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

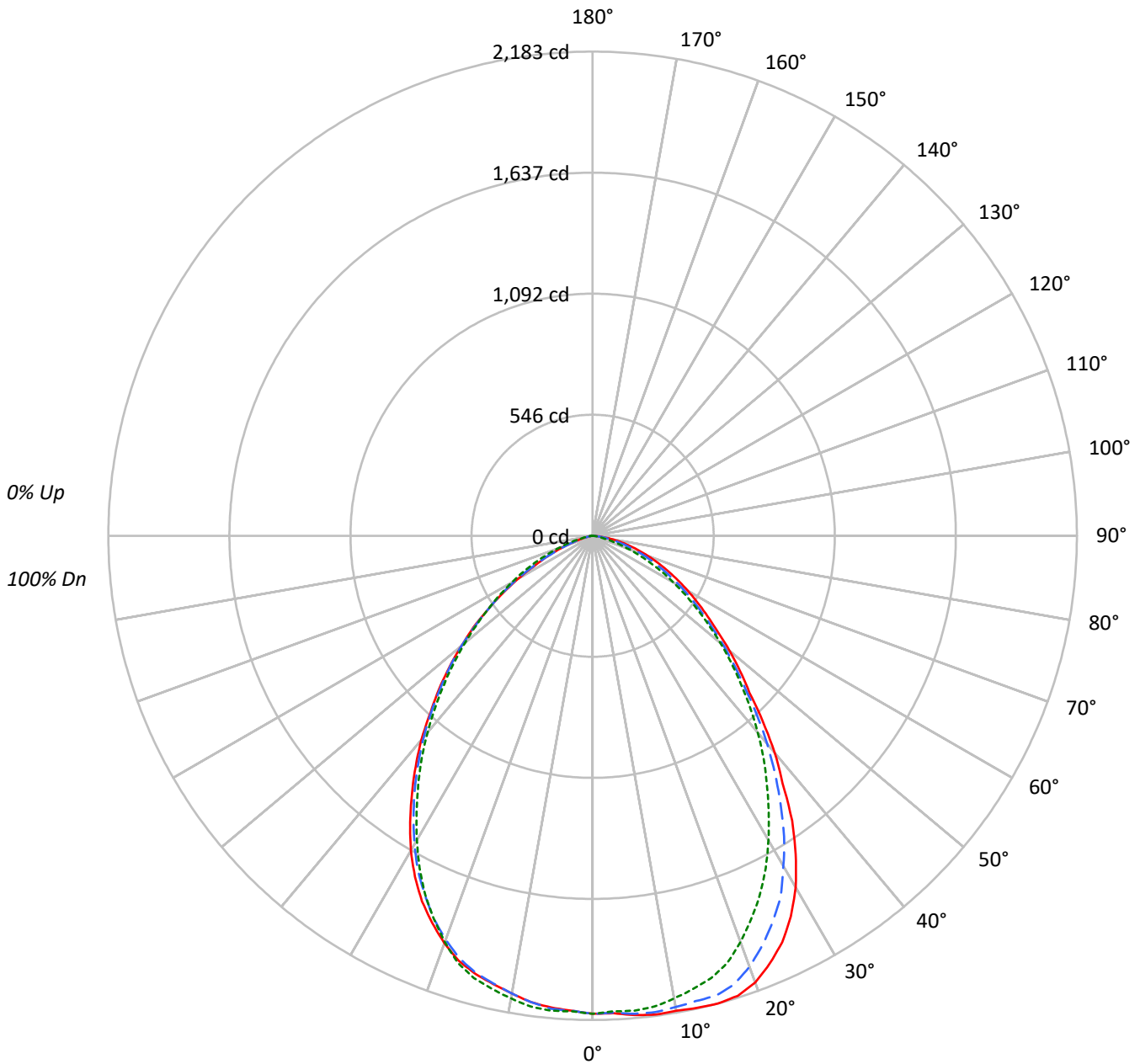
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	92	90	88			88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77			77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67			67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59			59
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	61	55	50	60	54	49	58	53	49	47			47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	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°	118137	118137	118137
5°	119365	118275	117499
10°	121062	117911	116653
15°	123905	117174	116051
20°	125054	113690	114017
25°	122318	107970	110020
30°	115847	100294	103693
35°	104902	91671	95071
40°	91350	82870	85897
45°	77512	73349	75977
50°	68654	64075	65763
55°	60461	54803	54526
60°	54184	46137	42431
65°	48345	37008	30405
70°	42555	26703	19010
75°	35902	16140	10760
80°	27655	7135	4451
85°	16039	1761	1761



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.6	4.8
10°-20°	587.9	13.9
20°-30°	849.8	20.1
30°-40°	894.2	21.2
40°-50°	751.7	17.8
50°-60°	527.6	12.5
60°-70°	290.2	6.9
70°-80°	103.0	2.4
80°-90°	13.5	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°	1642.3	38.9
0°-40°	2536.5	60.1
0°-60°	3815.8	90.4
0°-90°	4222.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4222.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2155	2155	2155	2155	2155	
5°	2169	2163	2149	2141	2135	207
15°	2183	2146	2065	2039	2045	616
25°	2022	1920	1785	1788	1819	925
35°	1568	1477	1370	1398	1421	971
45°	1000	972	946	969	980	784
55°	633	599	573	573	570	569
65°	373	333	285	234	234	371
75°	170	136	76	51	51	182
85°	26	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°	2155.0	2155.0	2155.0	2155.0	2155.0	2155.0	2155.0	2155.0	2155.0
2.5°	2155.0	2155.0	2152.1	2152.1	2146.4	2146.4	2143.6	2143.6	2143.6
5°	2169.1	2169.1	2163.4	2155.0	2149.3	2140.9	2140.9	2138.0	2135.2
7.5°	2177.5	2174.8	2166.2	2155.0	2140.9	2126.8	2121.1	2123.9	2121.1
10°	2174.8	2169.1	2157.8	2135.2	2118.2	2098.4	2095.6	2092.9	2095.6
12.5°	2180.3	2171.9	2149.3	2121.1	2092.9	2070.2	2067.4	2067.4	2070.2
15°	2183.2	2174.8	2146.4	2104.1	2064.6	2041.9	2039.2	2041.9	2044.8
17.5°	2174.8	2163.4	2121.1	2064.6	2019.4	1996.8	1996.8	2002.4	2008.0
20°	2143.6	2126.8	2067.4	1999.6	1948.8	1931.8	1937.5	1948.8	1954.4
22.5°	2087.2	2067.4	1999.6	1923.4	1869.7	1855.6	1869.7	1883.8	1889.5
25°	2022.2	1999.6	1920.5	1841.5	1785.0	1768.0	1787.8	1810.3	1818.9
27.5°	1934.7	1909.3	1835.8	1745.4	1689.0	1680.4	1703.1	1728.4	1734.1
30°	1830.1	1801.9	1720.0	1635.3	1584.4	1581.6	1607.1	1629.6	1638.1
32.5°	1703.1	1677.6	1607.1	1522.3	1477.1	1477.1	1502.5	1522.3	1530.8
35°	1567.5	1539.3	1477.1	1406.4	1369.8	1372.6	1398.0	1412.1	1420.6
37.5°	1406.4	1398.0	1350.0	1290.6	1265.3	1271.0	1290.6	1302.0	1310.4
40°	1276.5	1254.0	1223.0	1175.0	1158.0	1163.6	1183.4	1194.6	1200.3
42.5°	1135.4	1121.3	1095.8	1061.9	1050.6	1059.2	1076.0	1084.5	1081.7
45°	999.8	997.0	971.6	951.8	946.1	957.5	968.7	977.2	980.0
47.5°	901.0	889.7	867.1	853.0	847.3	858.5	869.9	875.6	875.6
50°	805.0	793.6	771.1	757.0	751.3	762.5	771.1	776.6	771.1
52.5°	709.0	697.6	677.8	661.0	658.0	663.7	666.5	669.4	675.1
55°	632.6	621.4	598.7	579.0	573.4	576.1	573.4	573.4	570.5
57.5°	559.3	547.9	525.4	502.7	494.2	491.5	483.0	480.1	477.3
60°	494.2	480.1	457.6	432.1	420.8	409.5	395.4	387.0	387.0
62.5°	432.1	418.0	392.5	370.0	353.1	333.3	310.6	299.4	299.4
65°	372.7	361.5	333.3	307.9	285.3	259.8	234.4	228.7	234.4
67.5°	316.3	305.1	276.7	251.4	223.2	192.0	169.5	169.5	175.2
70°	265.5	254.2	228.7	197.7	166.6	135.6	118.6	118.6	118.6
72.5°	217.5	206.2	177.9	149.7	118.6	87.6	79.1	81.9	79.1
75°	169.5	161.0	135.6	104.5	76.2	53.7	50.8	48.0	50.8
77.5°	127.2	118.6	96.0	67.8	42.3	31.1	28.2	28.2	28.2
80°	87.6	79.1	62.1	39.6	22.6	14.1	14.1	14.1	14.1
82.5°	53.7	45.2	33.9	19.8	8.4	8.4	8.4	8.4	8.4
85°	25.5	19.8	14.1	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)