

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: P582539

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040935-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4024.9 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

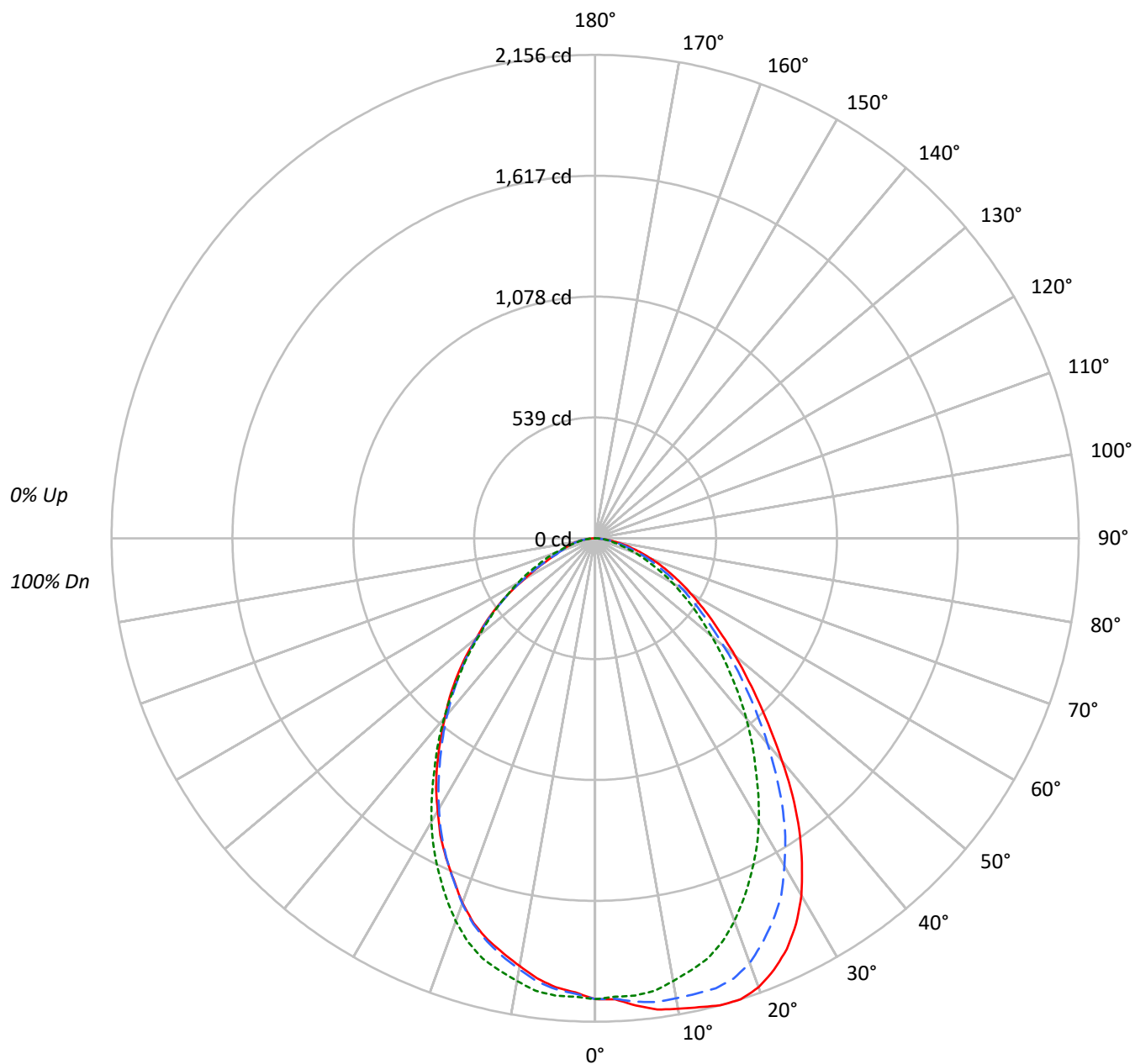
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76		
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66		
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58		
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52		
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46		
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42		
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38		
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34		
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	112672	112672	112672
5°	115111	112635	110626
10°	118630	111593	107841
15°	122379	110108	105171
20°	124325	105972	100902
25°	122275	99689	95110
30°	116417	92419	88862
35°	106167	83426	82108
40°	92824	74948	74540
45°	79884	65960	67480
50°	69439	57474	58668
55°	60653	50455	50980
60°	53866	43714	40019
65°	48073	36787	30587
70°	42299	30149	25645
75°	36262	23765	24379
80°	29234	20394	23930
85°	19436	17675	21134



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.6	4.8
10°-20°	554.0	13.8
20°-30°	790.8	19.6
30°-40°	828.3	20.6
40°-50°	697.4	17.3
50°-60°	496.4	12.3
60°-70°	290.5	7.2
70°-80°	137.5	3.4
80°-90°	35.4	0.9
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°	1539.4	38.2
0°-40°	2367.7	58.8
0°-60°	3561.5	88.5
0°-90°	4024.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4024.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2055	2055	2055	2055	2055	
5°	2092	2075	2047	2019	2010	201
15°	2156	2078	1940	1862	1853	609
25°	2022	1878	1648	1570	1572	925
35°	1586	1454	1247	1204	1227	985
45°	1030	955	851	854	870	800
55°	635	581	528	528	533	572
65°	371	329	284	239	236	370
75°	171	143	112	110	115	184
85°	31	25	28	34	34	40
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°	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3
2.5°	2058.0	2058.0	2055.3	2052.5	2046.8	2038.4	2032.8	2027.2	2027.2
5°	2091.8	2086.1	2074.9	2060.8	2046.8	2029.9	2018.7	2010.3	2010.3
7.5°	2119.8	2108.6	2086.1	2060.8	2035.6	2013.2	1993.4	1982.2	1979.4
10°	2131.1	2117.0	2083.4	2044.1	2004.7	1973.8	1951.3	1937.3	1937.3
12.5°	2142.3	2125.4	2080.5	2024.4	1973.8	1931.7	1909.3	1898.0	1895.1
15°	2156.3	2133.9	2077.7	2007.5	1940.1	1892.4	1861.5	1853.1	1853.1
17.5°	2156.3	2128.2	2058.0	1971.0	1886.8	1833.4	1805.3	1796.9	1799.8
20°	2131.1	2100.1	2016.0	1909.3	1816.5	1760.5	1732.4	1726.7	1729.6
22.5°	2083.4	2046.8	1951.3	1836.2	1735.1	1676.2	1651.0	1651.0	1648.1
25°	2021.5	1982.2	1878.4	1757.6	1648.1	1589.1	1569.5	1572.4	1572.4
27.5°	1940.1	1900.8	1796.9	1667.7	1558.3	1499.3	1485.3	1490.9	1493.6
30°	1839.1	1796.9	1687.4	1561.0	1460.0	1401.0	1392.6	1401.0	1403.8
32.5°	1715.5	1684.6	1577.9	1448.8	1353.3	1302.8	1300.0	1308.4	1319.7
35°	1586.4	1552.6	1454.3	1336.4	1246.6	1204.5	1204.5	1218.5	1226.9
37.5°	1446.0	1412.3	1322.4	1224.2	1148.3	1109.0	1114.7	1128.7	1131.6
40°	1297.1	1271.9	1196.1	1111.8	1047.3	1016.4	1024.9	1038.8	1041.6
42.5°	1156.8	1134.3	1072.5	996.8	949.0	926.6	937.8	954.6	960.2
45°	1030.4	1005.2	954.6	890.1	850.8	839.5	853.5	864.7	870.4
47.5°	915.3	892.8	850.8	791.8	763.7	758.0	772.1	777.7	783.4
50°	814.2	791.8	749.7	696.3	673.9	673.9	685.1	690.8	687.9
52.5°	716.0	696.3	657.0	612.0	598.0	598.0	606.5	609.2	614.9
55°	634.6	614.9	581.2	539.1	527.9	522.2	527.9	527.9	533.4
57.5°	558.7	541.8	511.0	471.7	457.7	452.0	449.3	446.5	452.0
60°	491.3	477.3	443.6	409.9	398.7	384.6	373.4	362.2	365.0
62.5°	429.6	415.5	384.6	351.0	339.8	320.1	306.0	292.0	297.6
65°	370.6	356.5	328.6	300.5	283.6	261.2	238.6	230.3	235.8
67.5°	317.2	306.0	277.9	250.0	235.8	210.5	188.1	188.1	190.9
70°	263.9	252.7	230.3	205.0	188.1	165.7	157.2	160.0	160.0
72.5°	216.2	207.7	185.3	162.9	146.0	131.9	131.9	134.8	137.6
75°	171.2	165.7	143.2	123.6	112.2	103.9	109.5	112.2	115.1
77.5°	131.9	123.6	106.7	92.6	84.3	87.1	92.6	95.5	98.3
80°	92.6	89.8	75.8	67.4	64.6	67.4	72.9	75.8	75.8
82.5°	59.0	56.2	47.7	45.0	45.0	47.7	53.3	53.3	53.3
85°	30.9	28.1	25.3	25.3	28.1	30.9	33.6	33.6	33.6
87.5°	11.2	8.4	11.2	11.2	14.0	14.0	14.0	14.0	14.0
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)