

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: P583079

Luminaire Tested: **HC655D010-HM64560927-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583079
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: HC655D010-HM64560927-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4030.0 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

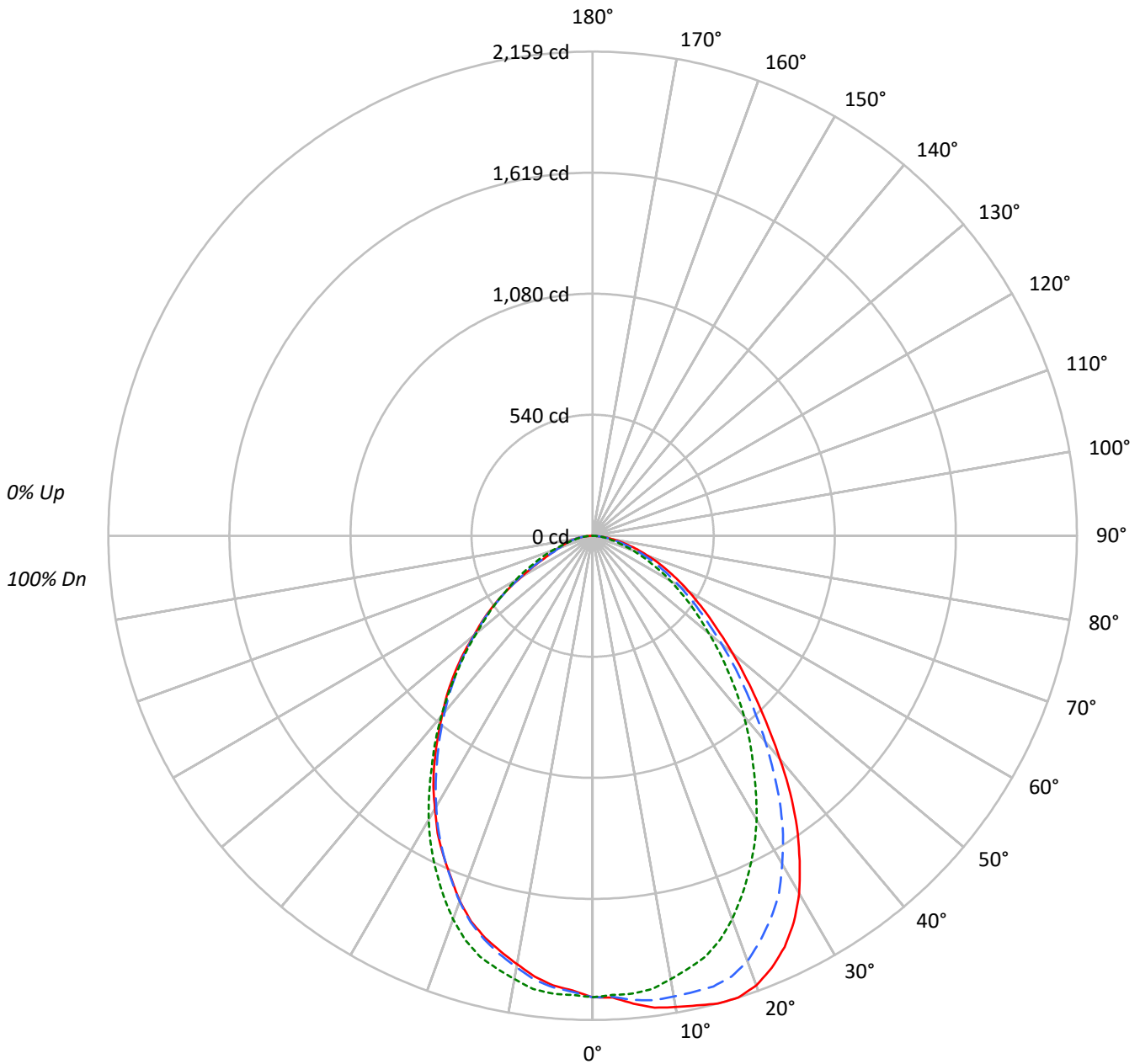
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583079

CATALOG NUMBER: HC655D010-HM64560927-61WWWB

Luminous Intensity Polar Plot





TEST NUMBER: P583079

CATALOG NUMBER: HC655D010-HM64560927-61WWWB

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								
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°	112809	112809	112809
5°	115254	112778	110769
10°	118780	111738	107981
15°	122538	110250	105301
20°	124482	106112	101030
25°	122432	99822	95225
30°	116569	92533	88976
35°	106301	83533	82215
40°	92946	75041	74633
45°	79985	66046	67565
50°	69533	57542	58736
55°	60729	50521	51047
60°	53943	43779	40063
65°	48137	36826	30626
70°	42363	30181	25693
75°	36325	23828	24400
80°	29265	20426	23961
85°	19436	17738	21197



TEST NUMBER: P583079

CATALOG NUMBER: HC655D010-HM64560927-61WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.8	4.8
10°-20°	554.7	13.8
20°-30°	791.8	19.6
30°-40°	829.4	20.6
40°-50°	698.3	17.3
50°-60°	497.0	12.3
60°-70°	290.9	7.2
70°-80°	137.7	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°	1541.3	38.2
0°-40°	2370.7	58.8
0°-60°	3566.1	88.5
0°-90°	4030.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4030.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2058	2058	2058	2058	2058	
5°	2094	2078	2049	2021	2013	201
15°	2159	2080	1943	1864	1855	609
25°	2024	1881	1650	1572	1574	926
35°	1588	1456	1248	1206	1228	987
45°	1032	956	852	855	872	801
55°	635	582	529	529	534	573
65°	371	329	284	239	236	370
75°	172	143	112	110	115	184
85°	31	25	28	34	34	40
90°	0	0	0	0	0	



TEST NUMBER: P583079

CATALOG NUMBER: HC655D010-HM64560927-61WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2057.8	2057.8	2057.8	2057.8	2057.8	2057.8	2057.8	2057.8	2057.8
2.5°	2060.7	2060.7	2057.8	2055.1	2049.4	2041.0	2035.4	2029.8	2029.8
5°	2094.4	2088.8	2077.6	2063.5	2049.4	2032.5	2021.3	2012.9	2012.9
7.5°	2122.5	2111.3	2088.8	2063.5	2038.2	2015.7	1996.1	1984.7	1982.0
10°	2133.8	2119.7	2086.0	2046.6	2007.3	1976.3	1953.8	1939.8	1939.8
12.5°	2145.0	2128.1	2083.1	2027.0	1976.3	1934.2	1911.7	1900.5	1897.7
15°	2159.1	2136.6	2080.3	2010.0	1942.6	1894.8	1863.9	1855.4	1855.4
17.5°	2159.1	2130.9	2060.7	1973.5	1889.1	1835.8	1807.6	1799.2	1802.1
20°	2133.8	2102.9	2018.6	1911.7	1818.9	1762.7	1734.5	1729.0	1731.8
22.5°	2086.0	2049.4	1953.8	1838.6	1737.4	1678.3	1653.0	1653.0	1650.3
25°	2024.1	1984.7	1880.7	1759.8	1650.3	1591.1	1571.5	1574.3	1574.3
27.5°	1942.6	1903.2	1799.2	1669.9	1560.3	1501.2	1487.1	1492.8	1495.7
30°	1841.5	1799.2	1689.6	1563.1	1461.8	1402.8	1394.4	1402.8	1405.6
32.5°	1717.7	1686.7	1579.9	1450.6	1355.0	1304.5	1301.7	1310.1	1321.3
35°	1588.4	1554.7	1456.3	1338.2	1248.2	1206.1	1206.1	1220.1	1228.5
37.5°	1447.9	1414.0	1324.1	1225.7	1149.9	1110.5	1116.0	1130.1	1133.0
40°	1298.8	1273.5	1197.7	1113.3	1048.6	1017.7	1026.1	1040.2	1042.9
42.5°	1158.3	1135.8	1073.9	998.0	950.2	927.7	938.9	955.9	961.4
45°	1031.7	1006.5	955.9	891.2	851.9	840.5	854.6	865.8	871.5
47.5°	916.5	894.0	851.9	792.7	764.7	759.0	773.1	778.8	784.3
50°	815.3	792.7	750.6	697.3	674.7	674.7	685.9	691.6	688.7
52.5°	716.9	697.3	657.9	612.9	598.8	598.8	607.2	610.1	615.6
55°	635.4	615.6	581.9	539.8	528.6	522.9	528.6	528.6	534.1
57.5°	559.4	542.5	511.6	472.3	458.3	452.6	449.8	446.9	452.6
60°	492.0	477.9	444.2	410.5	399.3	385.2	373.9	362.7	365.4
62.5°	430.1	416.1	385.2	351.5	340.1	320.5	306.4	292.3	298.0
65°	371.1	357.0	328.9	300.8	283.9	261.4	239.0	230.6	236.1
67.5°	317.6	306.4	278.4	250.2	236.1	210.8	188.3	188.3	191.2
70°	264.3	253.0	230.6	205.3	188.3	165.9	157.5	160.3	160.3
72.5°	216.5	208.1	185.5	163.0	146.2	132.1	132.1	135.0	137.7
75°	171.5	165.9	143.4	123.7	112.5	104.0	109.7	112.5	115.2
77.5°	132.1	123.7	106.8	92.7	84.3	87.2	92.7	95.6	98.4
80°	92.7	89.9	75.9	67.4	64.7	67.4	73.1	75.9	75.9
82.5°	59.0	56.2	47.8	45.0	45.0	47.8	53.5	53.5	53.5
85°	30.9	28.2	25.3	25.3	28.2	30.9	33.7	33.7	33.7
87.5°	11.2	8.4	11.2	11.2	14.1	14.1	14.1	14.1	14.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)