

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: P583223

Luminaire Tested: **HC660D010-HM64560927-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583223
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: HC660D010-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: 4201.8 lumens
Efficiency: N/A
Efficacy: 76.4 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

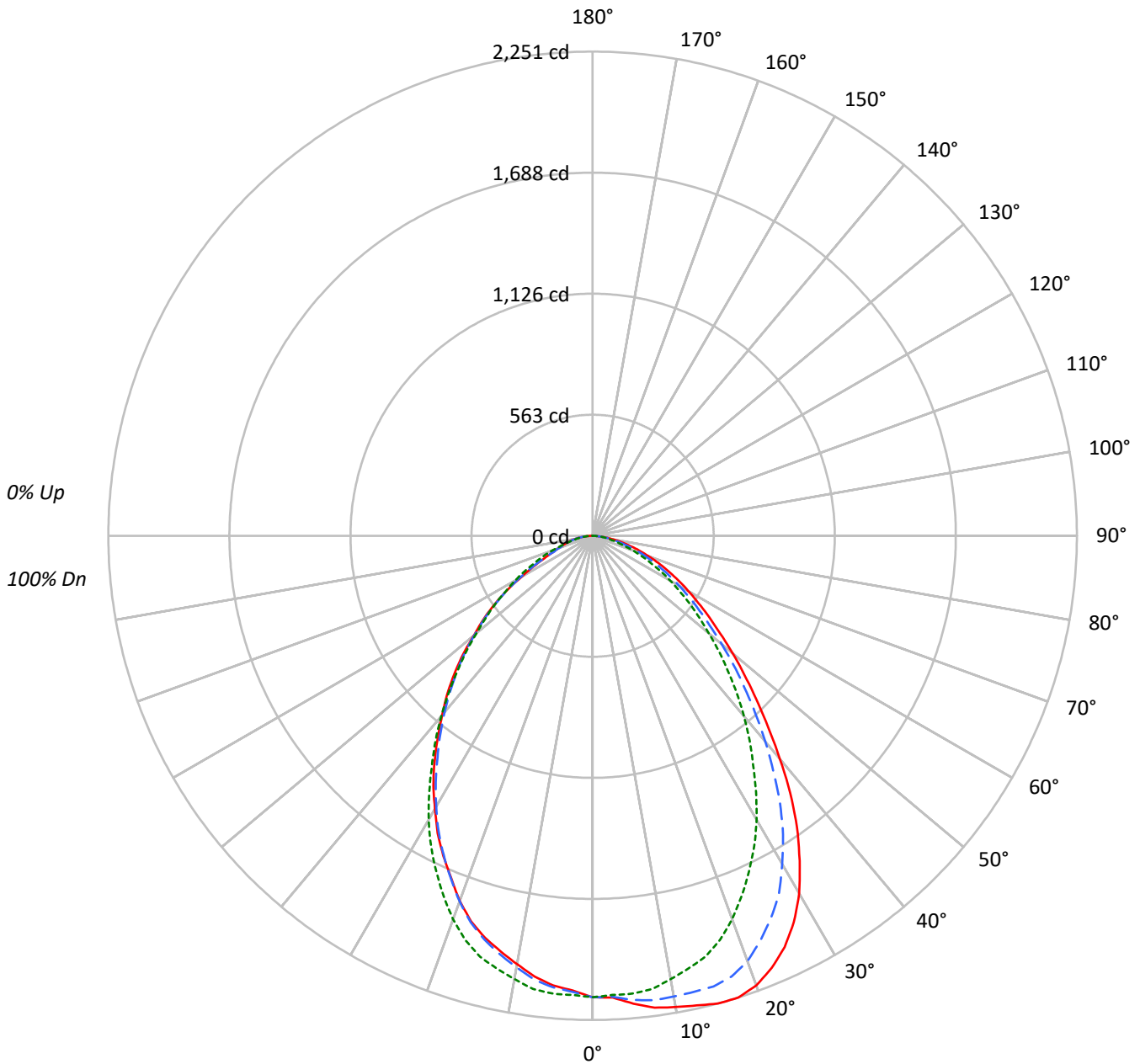
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	117622	117622	117622
5°	120163	117582	115491
10°	123840	116498	112584
15°	127753	114950	109791
20°	129785	110633	105336
25°	127653	104069	99284
30°	121531	96483	92767
35°	110831	87094	85722
40°	96910	78239	77817
45°	83396	68852	70441
50°	72492	59989	61243
55°	63310	52672	53226
60°	56235	45632	41784
65°	50187	38396	31936
70°	44158	31480	26783
75°	37871	24824	25459
80°	30528	21278	25003
85°	20316	18429	22140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.1	4.8
10°-20°	578.3	13.8
20°-30°	825.5	19.6
30°-40°	864.7	20.6
40°-50°	728.1	17.3
50°-60°	518.2	12.3
60°-70°	303.3	7.2
70°-80°	143.5	3.4
80°-90°	36.9	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°	1607.0	38.2
0°-40°	2471.7	58.8
0°-60°	3718.0	88.5
0°-90°	4201.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4201.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2146	2146	2146	2146	2146	
5°	2184	2166	2137	2107	2099	210
15°	2251	2169	2025	1943	1934	635
25°	2110	1961	1720	1638	1641	966
35°	1656	1518	1301	1257	1281	1029
45°	1076	996	888	891	909	835
55°	662	607	551	551	557	597
65°	387	343	296	249	246	386
75°	179	150	117	114	120	192
85°	32	26	29	35	35	42
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°	2145.6	2145.6	2145.6	2145.6	2145.6	2145.6	2145.6	2145.6	2145.6
2.5°	2148.5	2148.5	2145.6	2142.6	2136.7	2127.9	2122.1	2116.2	2116.2
5°	2183.6	2177.7	2166.1	2151.5	2136.7	2119.2	2107.4	2098.7	2098.7
7.5°	2213.0	2201.3	2177.7	2151.5	2125.1	2101.6	2081.0	2069.3	2066.4
10°	2224.7	2210.0	2174.9	2133.8	2092.8	2060.5	2037.1	2022.5	2022.5
12.5°	2236.4	2218.8	2172.0	2113.3	2060.5	2016.6	1993.1	1981.5	1978.5
15°	2251.0	2227.6	2169.0	2095.7	2025.4	1975.6	1943.3	1934.5	1934.5
17.5°	2251.0	2221.8	2148.5	2057.6	1969.7	1914.0	1884.6	1875.9	1878.9
20°	2224.7	2192.5	2104.5	1993.1	1896.4	1837.8	1808.4	1802.6	1805.6
22.5°	2174.9	2136.7	2037.1	1916.9	1811.4	1749.9	1723.5	1723.5	1720.5
25°	2110.4	2069.3	1960.9	1834.8	1720.5	1659.0	1638.4	1641.4	1641.4
27.5°	2025.4	1984.3	1875.9	1741.0	1626.8	1565.2	1550.5	1556.4	1559.4
30°	1919.9	1875.9	1761.5	1629.7	1524.2	1462.7	1453.8	1462.7	1465.5
32.5°	1790.9	1758.7	1647.3	1512.5	1412.8	1360.0	1357.1	1365.8	1377.6
35°	1656.1	1620.9	1518.3	1395.2	1301.4	1257.4	1257.4	1272.1	1280.9
37.5°	1509.5	1474.3	1380.5	1277.9	1198.8	1157.8	1163.7	1178.3	1181.2
40°	1354.2	1327.8	1248.6	1160.7	1093.3	1061.1	1069.9	1084.5	1087.4
42.5°	1207.6	1184.2	1119.6	1040.6	990.7	967.3	979.0	996.5	1002.4
45°	1075.7	1049.3	996.5	929.1	888.1	876.4	891.1	902.7	908.6
47.5°	955.5	932.1	888.1	826.5	797.3	791.4	806.0	811.9	817.8
50°	850.0	826.5	782.6	726.9	703.4	703.4	715.2	721.1	718.1
52.5°	747.5	726.9	685.9	639.0	624.4	624.4	633.1	636.0	641.9
55°	662.4	641.9	606.7	562.8	551.1	545.2	551.1	551.1	556.9
57.5°	583.3	565.7	533.4	492.4	477.8	471.9	469.0	466.0	471.9
60°	512.9	498.3	463.1	428.0	416.2	401.6	389.8	378.1	381.1
62.5°	448.5	433.8	401.6	366.4	354.7	334.1	319.5	304.9	310.7
65°	386.9	372.3	342.9	313.6	296.0	272.6	249.2	240.3	246.2
67.5°	331.3	319.5	290.2	260.8	246.2	219.8	196.4	196.4	199.3
70°	275.5	263.8	240.3	213.9	196.4	172.9	164.1	167.1	167.1
72.5°	225.7	216.9	193.4	170.0	152.4	137.7	137.7	140.7	143.6
75°	178.8	172.9	149.5	129.0	117.2	108.5	114.3	117.2	120.2
77.5°	137.7	129.0	111.3	96.7	87.9	90.8	96.7	99.7	102.6
80°	96.7	93.8	79.2	70.3	67.4	70.3	76.2	79.2	79.2
82.5°	61.5	58.7	49.8	46.9	46.9	49.8	55.7	55.7	55.7
85°	32.3	29.3	26.4	26.4	29.3	32.3	35.2	35.2	35.2
87.5°	11.8	8.8	11.8	11.8	14.6	14.6	14.6	14.6	14.6
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)