

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: P582791

Luminaire Tested: **HC650D010-HM64560927-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582791
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: HC650D010-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: 3847.6 lumens
Efficiency: N/A
Efficacy: 80.2 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

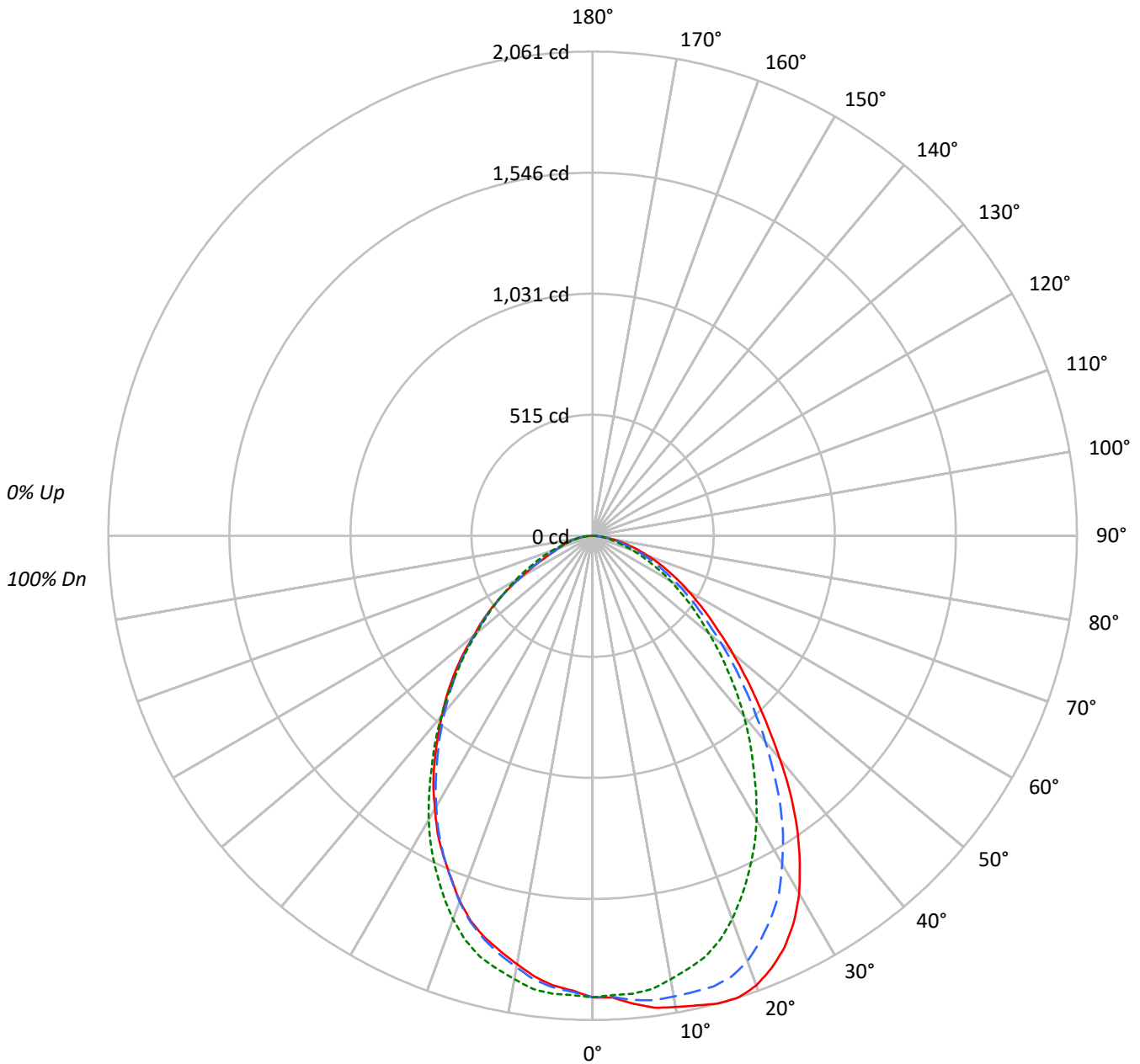
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	107705	107705	107705
5°	110037	107676	105750
10°	113402	106678	103088
15°	116987	105256	100540
20°	118847	101305	96457
25°	116892	95304	90919
30°	111283	88349	84950
35°	101489	79752	78501
40°	88738	71641	71262
45°	76372	63045	64503
50°	66386	54932	56083
55°	57976	48228	48744
60°	51498	41784	38254
65°	45958	35153	29251
70°	40440	28835	24507
75°	34673	22748	23320
80°	27971	19510	22888
85°	18555	16857	20254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.0	4.8
10°-20°	529.6	13.8
20°-30°	756.0	19.6
30°-40°	791.9	20.6
40°-50°	666.7	17.3
50°-60°	474.5	12.3
60°-70°	277.7	7.2
70°-80°	131.4	3.4
80°-90°	33.8	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°	1471.5	38.2
0°-40°	2263.4	58.8
0°-60°	3404.6	88.5
0°-90°	3847.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3847.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1965	1965	1965	1965	1965	
5°	2000	1984	1957	1930	1922	192
15°	2061	1986	1855	1780	1772	582
25°	1932	1796	1576	1500	1503	885
35°	1516	1390	1192	1152	1173	942
45°	985	913	813	816	832	765
55°	607	556	505	505	510	547
65°	354	314	271	228	226	353
75°	164	137	107	105	110	176
85°	30	24	27	32	32	38
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°	1964.7	1964.7	1964.7	1964.7	1964.7	1964.7	1964.7	1964.7	1964.7
2.5°	1967.4	1967.4	1964.7	1962.0	1956.7	1948.6	1943.2	1937.9	1937.9
5°	1999.6	1994.2	1983.5	1970.0	1956.7	1940.5	1929.8	1921.7	1921.7
7.5°	2026.5	2015.7	1994.2	1970.0	1945.9	1924.4	1905.7	1894.9	1892.2
10°	2037.2	2023.8	1991.5	1954.0	1916.4	1886.9	1865.4	1851.9	1851.9
12.5°	2047.9	2031.8	1988.8	1935.2	1886.9	1846.6	1825.1	1814.4	1811.7
15°	2061.3	2039.8	1986.2	1919.1	1854.6	1809.1	1779.5	1771.5	1771.5
17.5°	2061.3	2034.5	1967.4	1884.2	1803.6	1752.6	1725.8	1717.8	1720.5
20°	2037.2	2007.7	1927.2	1825.1	1736.5	1682.9	1656.0	1650.7	1653.4
22.5°	1991.5	1956.7	1865.4	1755.3	1658.7	1602.4	1578.2	1578.2	1575.6
25°	1932.5	1894.9	1795.6	1680.2	1575.6	1519.1	1500.3	1503.1	1503.1
27.5°	1854.6	1817.1	1717.8	1594.4	1489.6	1433.3	1419.8	1425.2	1427.9
30°	1758.0	1717.8	1613.1	1492.3	1395.7	1339.4	1331.2	1339.4	1342.0
32.5°	1639.9	1610.4	1508.4	1385.0	1293.7	1245.4	1242.6	1250.8	1261.5
35°	1516.5	1484.3	1390.3	1277.6	1191.7	1151.5	1151.5	1164.8	1173.0
37.5°	1382.2	1350.0	1264.1	1170.3	1097.7	1060.2	1065.5	1079.0	1081.7
40°	1240.0	1215.8	1143.4	1062.9	1001.1	971.6	979.6	993.1	995.8
42.5°	1105.8	1084.4	1025.3	952.8	907.2	885.8	896.5	912.6	918.0
45°	985.1	960.9	912.6	850.8	813.2	802.5	816.0	826.7	832.0
47.5°	875.0	853.5	813.2	756.9	730.1	724.7	738.1	743.4	748.9
50°	778.4	756.9	716.6	665.6	644.1	644.1	654.9	660.3	657.6
52.5°	684.4	665.6	628.1	585.1	571.7	571.7	579.8	582.5	587.8
55°	606.6	587.8	555.5	515.4	504.6	499.2	504.6	504.6	510.0
57.5°	534.2	518.0	488.5	450.9	437.4	432.1	429.4	426.8	432.1
60°	469.7	456.3	424.1	391.9	381.1	367.8	357.0	346.3	348.9
62.5°	410.6	397.3	367.8	335.5	324.8	306.0	292.5	279.2	284.5
65°	354.3	340.8	314.0	287.2	271.0	249.7	228.2	220.1	225.5
67.5°	303.3	292.5	265.7	238.9	225.5	201.2	179.9	179.9	182.5
70°	252.3	241.5	220.1	195.9	179.9	158.4	150.3	152.9	152.9
72.5°	206.7	198.6	177.2	155.7	139.6	126.1	126.1	128.8	131.6
75°	163.7	158.4	136.9	118.1	107.4	99.3	104.6	107.4	110.1
77.5°	126.1	118.1	102.0	88.6	80.5	83.3	88.6	91.3	93.9
80°	88.6	85.9	72.5	64.4	61.8	64.4	69.8	72.5	72.5
82.5°	56.3	53.7	45.6	43.0	43.0	45.6	51.0	51.0	51.0
85°	29.5	26.8	24.2	24.2	26.8	29.5	32.2	32.2	32.2
87.5°	10.7	8.0	10.7	10.7	13.5	13.5	13.5	13.5	13.5
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)