

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: P582789

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC650D010-HM64560927-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3401.9 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

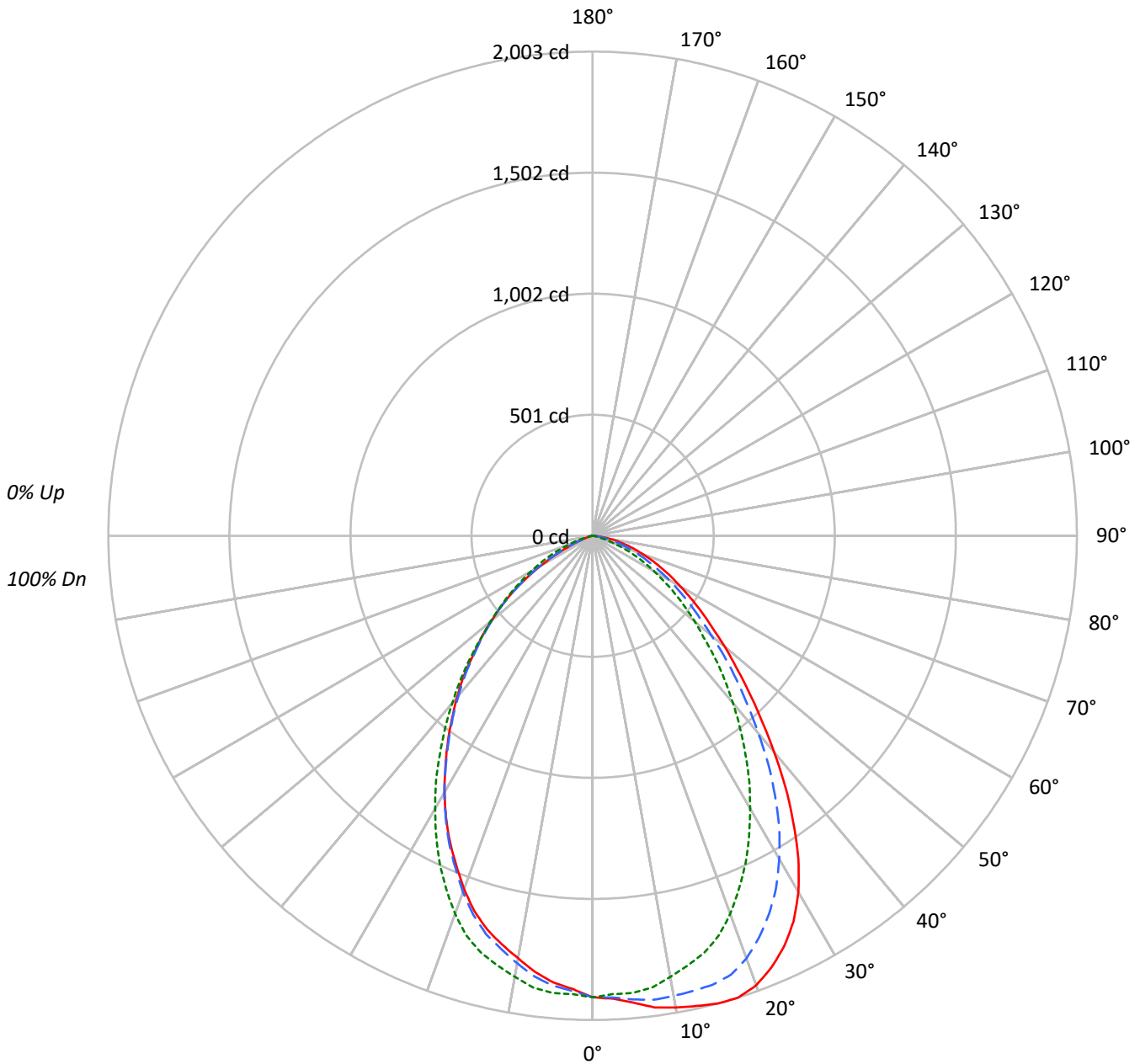
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69			
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61			
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54			
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49			
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44			
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40			
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37			
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	104652	104652	104652
5°	106675	104457	102091
10°	110302	103127	98790
15°	113678	101329	95693
20°	115440	97110	90693
25°	113359	90459	84452
30°	107757	82430	77499
35°	96851	73669	69901
40°	83578	64564	62446
45°	70775	55579	54122
50°	60689	46949	46480
55°	52615	39521	37982
60°	45928	32092	27092
65°	40393	24724	14982
70°	34846	16349	7309
75°	29569	7964	2859
80°	22888	3378	1673
85°	13523	1698	1698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.1	5.3
10°-20°	509.4	15.0
20°-30°	717.4	21.1
30°-40°	733.0	21.5
40°-50°	591.0	17.4
50°-60°	396.4	11.7
60°-70°	200.6	5.9
70°-80°	64.1	1.9
80°-90°	9.9	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°	1407.0	41.4
0°-40°	2139.9	62.9
0°-60°	3127.3	91.9
0°-90°	3401.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3401.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1909	1909	1909	1909	1909	
5°	1938	1925	1898	1869	1855	187
15°	2003	1922	1785	1705	1686	566
25°	1874	1726	1496	1404	1396	858
35°	1447	1316	1101	1039	1044	901
45°	913	840	717	693	698	710
55°	550	489	414	395	397	495
65°	311	258	191	126	116	311
75°	140	99	38	14	14	150
85°	22	11	3	3	3	29
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°	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0
2.5°	1917.0	1914.4	1911.7	1906.3	1898.2	1890.2	1884.9	1879.4	1876.7
5°	1938.5	1933.2	1925.1	1914.4	1898.2	1879.4	1868.7	1857.9	1855.2
7.5°	1968.0	1957.3	1935.9	1911.7	1884.9	1857.9	1839.2	1828.4	1820.4
10°	1981.5	1962.7	1933.2	1892.9	1852.6	1820.4	1796.2	1780.1	1774.7
12.5°	1992.2	1970.7	1927.7	1874.1	1820.4	1777.4	1750.6	1737.1	1731.8
15°	2003.0	1981.5	1922.4	1852.6	1785.4	1734.4	1704.9	1691.5	1686.1
17.5°	2003.0	1973.5	1903.7	1815.0	1734.4	1672.8	1643.1	1629.8	1627.1
20°	1978.8	1946.5	1860.7	1755.9	1664.6	1594.8	1568.0	1560.0	1554.6
22.5°	1933.2	1895.6	1798.9	1680.8	1581.5	1514.3	1484.8	1479.4	1474.0
25°	1874.1	1836.5	1726.4	1600.3	1495.5	1428.4	1404.2	1398.9	1396.2
27.5°	1798.9	1758.6	1643.1	1514.3	1401.5	1337.1	1315.6	1315.6	1312.9
30°	1702.3	1656.6	1543.8	1415.0	1302.2	1243.1	1227.1	1227.1	1224.3
32.5°	1584.1	1538.5	1436.5	1312.9	1205.6	1143.8	1130.3	1135.8	1133.1
35°	1447.2	1409.6	1315.6	1194.8	1100.8	1044.5	1039.0	1044.5	1044.5
37.5°	1310.2	1275.4	1194.8	1090.1	1001.5	950.5	950.5	958.5	955.8
40°	1167.9	1141.1	1066.0	974.7	902.2	867.2	861.9	869.9	872.6
42.5°	1033.7	1012.2	947.8	872.6	808.2	773.3	781.3	786.7	789.4
45°	912.9	891.4	840.4	762.6	716.9	692.7	692.7	700.8	698.1
47.5°	805.4	789.4	738.4	663.1	622.9	612.1	617.5	622.9	622.9
50°	711.6	687.3	639.0	580.0	550.5	537.0	542.3	545.0	545.0
52.5°	622.9	606.8	558.5	504.8	478.0	469.9	469.9	472.5	472.5
55°	550.5	531.6	488.7	435.0	413.5	402.7	394.7	392.0	397.4
57.5°	480.5	464.5	424.2	373.2	349.0	338.4	322.2	316.9	322.2
60°	418.9	405.4	365.2	316.9	292.7	271.2	252.4	241.6	247.1
62.5°	365.2	349.0	308.7	268.4	241.6	217.4	187.9	171.8	179.9
65°	311.4	298.1	257.8	217.4	190.6	161.1	126.2	115.5	115.5
67.5°	263.1	249.7	212.1	177.2	145.0	110.1	77.8	75.2	77.8
70°	217.4	204.1	171.8	136.9	102.0	67.1	45.6	45.6	45.6
72.5°	179.9	163.8	134.3	99.3	64.5	35.0	24.2	26.8	26.8
75°	139.6	126.2	99.3	67.1	37.6	16.1	13.5	13.5	13.5
77.5°	104.8	94.0	69.8	43.0	18.8	5.3	5.3	5.3	5.3
80°	72.5	61.8	45.6	26.8	10.7	5.3	5.3	5.3	5.3
82.5°	43.0	37.6	26.8	13.5	5.3	2.7	2.7	2.7	2.7
85°	21.5	18.8	10.7	5.3	2.7	2.7	2.7	2.7	2.7
87.5°	5.3	5.3	2.7	2.7	0.0	2.7	2.7	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)