

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: P583077

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583077
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: HC655D010-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: 3563.2 lumens
Efficiency: N/A
Efficacy: 68.5 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

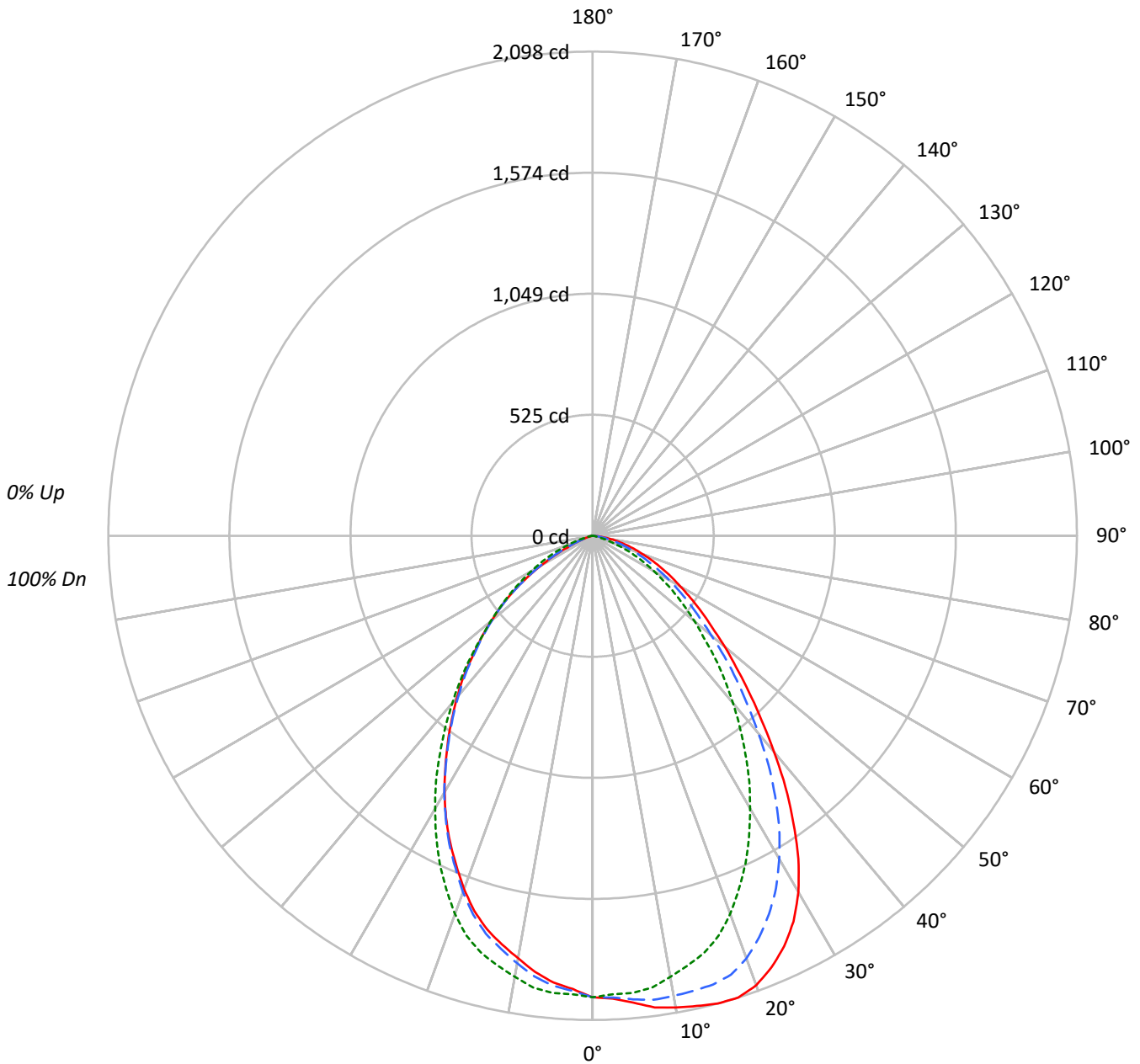
Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	109613	109613	109613
5°	111738	109415	106939
10°	115534	108020	103472
15°	119064	106141	100233
20°	120912	101719	94992
25°	118737	94747	88457
30°	112865	86342	81177
35°	101442	77169	73207
40°	87543	67620	65408
45°	74132	58215	56688
50°	63563	49167	48689
55°	55100	41394	39779
60°	48099	33605	28364
65°	42326	25904	15683
70°	36513	17118	7662
75°	30966	8345	2987
80°	23961	3536	1799
85°	14152	1761	1761



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.7	5.3
10°-20°	533.6	15.0
20°-30°	751.4	21.1
30°-40°	767.7	21.5
40°-50°	619.0	17.4
50°-60°	415.2	11.7
60°-70°	210.1	5.9
70°-80°	67.2	1.9
80°-90°	10.4	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°	1473.7	41.4
0°-40°	2241.4	62.9
0°-60°	3275.6	91.9
0°-90°	3563.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3563.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2000	2000	2000	2000	2000	
5°	2030	2016	1988	1957	1943	196
15°	2098	2014	1870	1786	1766	592
25°	1963	1808	1566	1471	1462	899
35°	1516	1378	1153	1088	1094	943
45°	956	880	751	726	731	744
55°	576	512	433	414	416	519
65°	326	270	200	132	121	326
75°	146	104	39	14	14	157
85°	22	11	3	3	3	30
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°	1999.5	1999.5	1999.5	1999.5	1999.5	1999.5	1999.5	1999.5	1999.5
2.5°	2007.9	2005.2	2002.3	1996.7	1988.3	1979.9	1974.2	1968.6	1965.8
5°	2030.5	2024.8	2016.4	2005.2	1988.3	1968.6	1957.4	1946.0	1943.3
7.5°	2061.4	2050.1	2027.7	2002.3	1974.2	1946.0	1926.4	1915.2	1906.8
10°	2075.5	2055.8	2024.8	1982.6	1940.5	1906.8	1881.4	1864.5	1858.8
12.5°	2086.7	2064.2	2019.3	1963.0	1906.8	1861.7	1833.6	1819.6	1813.9
15°	2097.9	2075.5	2013.6	1940.5	1870.2	1816.7	1785.7	1771.8	1766.1
17.5°	2097.9	2067.1	1993.9	1901.1	1816.7	1752.0	1721.1	1707.1	1704.2
20°	2072.6	2038.9	1948.9	1839.2	1743.6	1670.5	1642.4	1634.0	1628.3
22.5°	2024.8	1985.4	1884.2	1760.4	1656.4	1586.2	1555.2	1549.6	1543.9
25°	1963.0	1923.6	1808.3	1676.1	1566.4	1496.1	1470.8	1465.1	1462.4
27.5°	1884.2	1842.0	1721.1	1586.2	1468.0	1400.6	1378.0	1378.0	1375.2
30°	1783.0	1735.2	1617.0	1482.1	1364.0	1302.1	1285.2	1285.2	1282.4
32.5°	1659.3	1611.5	1504.5	1375.2	1262.7	1198.0	1183.9	1189.6	1186.8
35°	1515.8	1476.4	1378.0	1251.5	1153.1	1093.9	1088.4	1093.9	1093.9
37.5°	1372.4	1335.8	1251.5	1141.8	1049.0	995.5	995.5	1004.0	1001.2
40°	1223.3	1195.2	1116.5	1020.8	944.9	908.3	902.7	911.1	914.0
42.5°	1082.7	1060.2	992.8	914.0	846.4	809.9	818.4	824.0	826.8
45°	956.2	933.6	880.3	798.6	750.9	725.5	725.5	734.1	731.2
47.5°	843.7	826.8	773.3	694.7	652.4	641.2	646.9	652.4	652.4
50°	745.3	720.0	669.3	607.5	576.5	562.4	568.1	570.9	570.9
52.5°	652.4	635.6	585.0	528.7	500.5	492.1	492.1	495.0	495.0
55°	576.5	556.8	511.9	455.6	433.1	421.9	413.5	410.6	416.2
57.5°	503.4	486.6	444.3	390.9	365.5	354.3	337.5	331.8	337.5
60°	438.7	424.7	382.5	331.8	306.5	284.0	264.4	253.2	258.7
62.5°	382.5	365.5	323.4	281.2	253.2	227.8	196.9	179.9	188.5
65°	326.3	312.2	270.0	227.8	199.7	168.7	132.1	120.9	120.9
67.5°	275.6	261.6	222.2	185.6	151.9	115.3	81.5	78.8	81.5
70°	227.8	213.8	179.9	143.4	106.8	70.3	47.8	47.8	47.8
72.5°	188.5	171.5	140.7	104.1	67.5	36.6	25.3	28.2	28.2
75°	146.2	132.1	104.1	70.3	39.4	16.9	14.1	14.1	14.1
77.5°	109.7	98.4	73.1	45.0	19.6	5.7	5.7	5.7	5.7
80°	75.9	64.7	47.8	28.2	11.2	5.7	5.7	5.7	5.7
82.5°	45.0	39.4	28.2	14.1	5.7	2.8	2.8	2.8	2.8
85°	22.5	19.6	11.2	5.7	2.8	2.8	2.8	2.8	2.8
87.5°	5.7	5.7	2.8	2.8	0.0	2.8	2.8	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)