

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: P583214

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC660D010-HM64560927-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4368.9 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

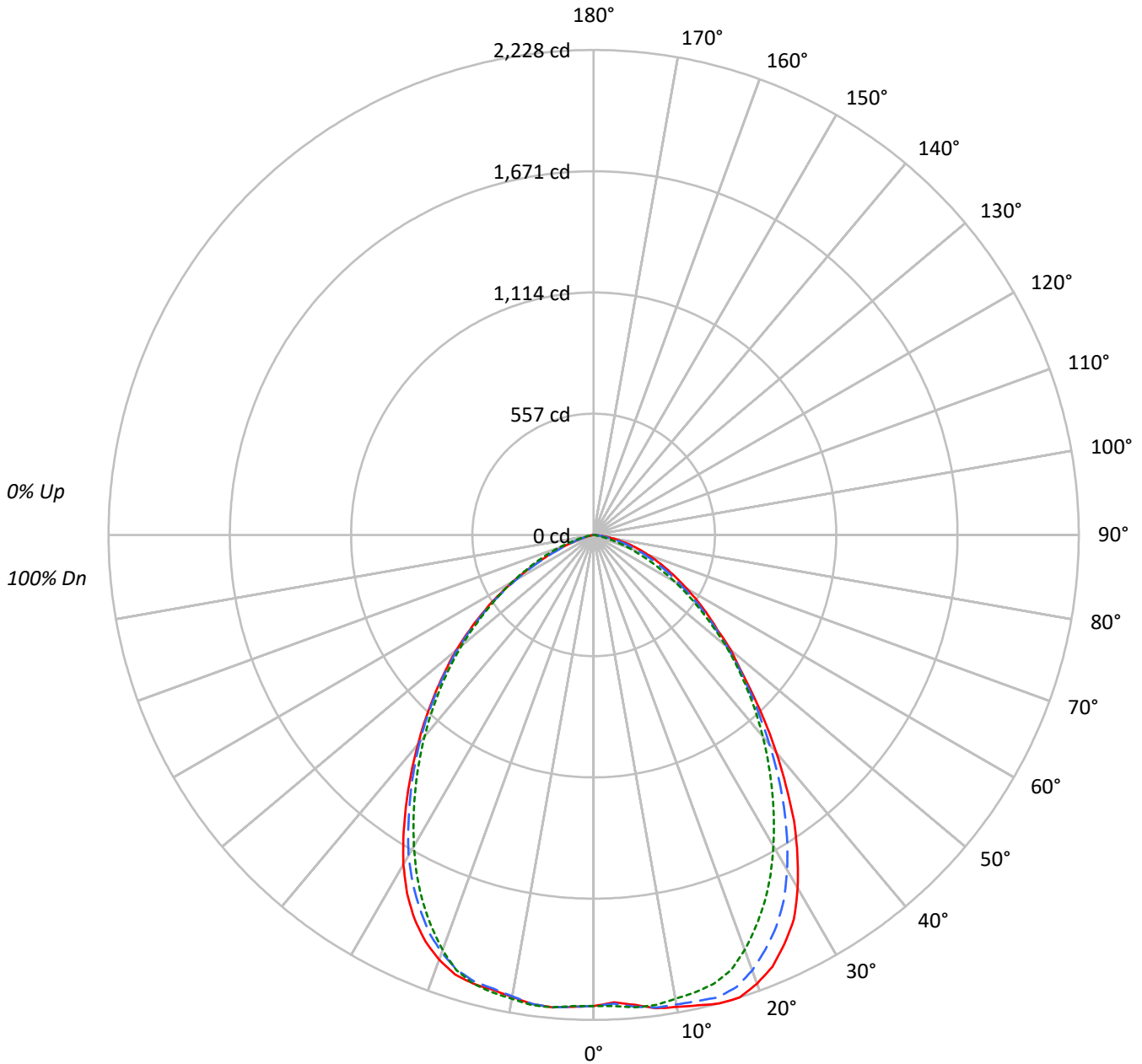
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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								
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88								
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77								
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68								
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60								
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53								
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	118631	118631	118631
5°	119249	119887	119887
10°	122582	120461	119971
15°	126476	121153	121153
20°	127959	118374	121111
25°	125402	112446	117775
30°	118613	104503	110631
35°	107338	95573	100278
40°	93375	86455	89818
45°	79799	77062	79799
50°	70019	67520	70275
55°	61092	56887	59133
60°	54009	47266	46619
65°	47930	37267	31949
70°	42299	26319	19266
75°	36029	14911	9320
80°	26866	4609	2778
85°	14781	1824	1824



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.6	4.8
10°-20°	607.3	13.9
20°-30°	887.0	20.3
30°-40°	930.3	21.3
40°-50°	783.7	17.9
50°-60°	549.1	12.6
60°-70°	294.4	6.7
70°-80°	98.7	2.3
80°-90°	10.7	0.2
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°	1701.9	39.0
0°-40°	2632.2	60.2
0°-60°	3965.0	90.8
0°-90°	4368.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4368.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2164	2164	2164	2164	2164	
5°	2167	2176	2179	2179	2179	208
15°	2228	2199	2135	2123	2135	629
25°	2073	1985	1859	1891	1947	950
35°	1604	1522	1428	1469	1498	995
45°	1029	1012	994	1020	1029	802
55°	639	619	595	607	619	575
65°	370	337	287	238	246	369
75°	170	132	70	44	44	180
85°	24	12	3	3	3	32
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°	2164.0	2164.0	2164.0	2164.0	2164.0	2164.0	2164.0	2164.0	2164.0
2.5°	2149.4	2149.4	2155.2	2161.1	2167.0	2167.0	2169.9	2172.9	2169.9
5°	2167.0	2167.0	2175.7	2178.6	2178.6	2175.7	2178.6	2178.6	2178.6
7.5°	2193.4	2187.5	2190.4	2184.5	2178.6	2175.7	2172.9	2172.9	2172.9
10°	2202.1	2196.3	2190.4	2178.6	2164.0	2155.2	2152.2	2155.2	2155.2
12.5°	2213.9	2208.0	2193.4	2169.9	2152.2	2137.6	2134.7	2140.6	2140.6
15°	2228.5	2222.7	2199.3	2161.1	2134.7	2120.1	2123.0	2128.8	2134.7
17.5°	2228.5	2216.8	2178.6	2128.8	2096.6	2081.9	2093.7	2108.3	2117.1
20°	2193.4	2181.6	2128.8	2067.3	2029.1	2020.4	2040.9	2067.3	2076.0
22.5°	2146.5	2123.0	2061.4	1988.1	1947.1	1947.1	1976.3	2008.6	2020.4
25°	2073.2	2055.5	1985.1	1900.2	1859.0	1856.1	1891.3	1935.3	1947.1
27.5°	1991.0	1967.6	1891.3	1803.3	1759.3	1762.3	1800.5	1844.4	1856.1
30°	1873.8	1844.4	1777.0	1691.9	1650.9	1662.6	1700.8	1732.9	1747.7
32.5°	1741.8	1715.4	1653.9	1574.7	1539.4	1551.2	1583.4	1612.7	1624.5
35°	1603.9	1574.7	1521.9	1451.5	1428.1	1439.7	1469.1	1492.5	1498.4
37.5°	1448.6	1428.1	1389.9	1334.2	1316.6	1331.2	1354.8	1369.4	1375.3
40°	1304.8	1287.2	1255.1	1213.9	1208.1	1219.8	1243.3	1252.1	1255.1
42.5°	1164.1	1149.5	1129.0	1099.6	1099.6	1111.3	1131.8	1137.7	1140.6
45°	1029.3	1020.4	1011.6	988.2	994.0	1008.7	1020.4	1029.3	1029.3
47.5°	911.9	914.9	903.2	885.5	891.4	906.1	914.9	923.7	923.7
50°	821.0	812.2	800.5	783.0	791.7	803.5	815.2	821.0	824.0
52.5°	715.5	712.5	703.8	683.3	689.1	694.9	706.7	715.5	718.4
55°	639.2	630.5	618.7	595.2	595.2	601.1	607.0	612.8	618.7
57.5°	565.9	557.2	539.5	513.1	510.3	510.3	507.3	513.1	521.9
60°	492.6	489.7	463.3	439.8	431.1	422.2	410.6	413.4	425.2
62.5°	428.1	422.2	398.8	369.5	351.9	337.2	322.5	319.6	331.4
65°	369.5	363.6	337.2	307.9	287.3	260.9	237.5	237.5	246.3
67.5°	316.7	305.0	281.5	249.2	222.8	190.6	167.1	173.0	175.9
70°	263.9	255.1	228.7	196.5	164.2	132.0	117.3	120.2	120.2
72.5°	217.0	205.3	178.9	146.6	114.3	85.1	79.2	76.2	76.2
75°	170.1	158.4	132.0	99.7	70.4	49.8	44.0	44.0	44.0
77.5°	123.2	114.3	90.9	61.5	38.1	23.5	20.5	17.6	17.6
80°	85.1	76.2	55.7	32.3	14.6	8.8	8.8	8.8	8.8
82.5°	49.8	41.0	26.4	14.6	5.9	2.9	2.9	2.9	2.9
85°	23.5	17.6	11.8	5.9	2.9	2.9	2.9	2.9	2.9
87.5°	2.9	2.9	2.9	0.0	0.0	0.0	0.0	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)