

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: P593209

Luminaire Tested: **HC630D010-HM63040850-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593209
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: HC630D010-HM63040850-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3568.1 lumens
Efficiency: N/A
Efficacy: 127.4 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

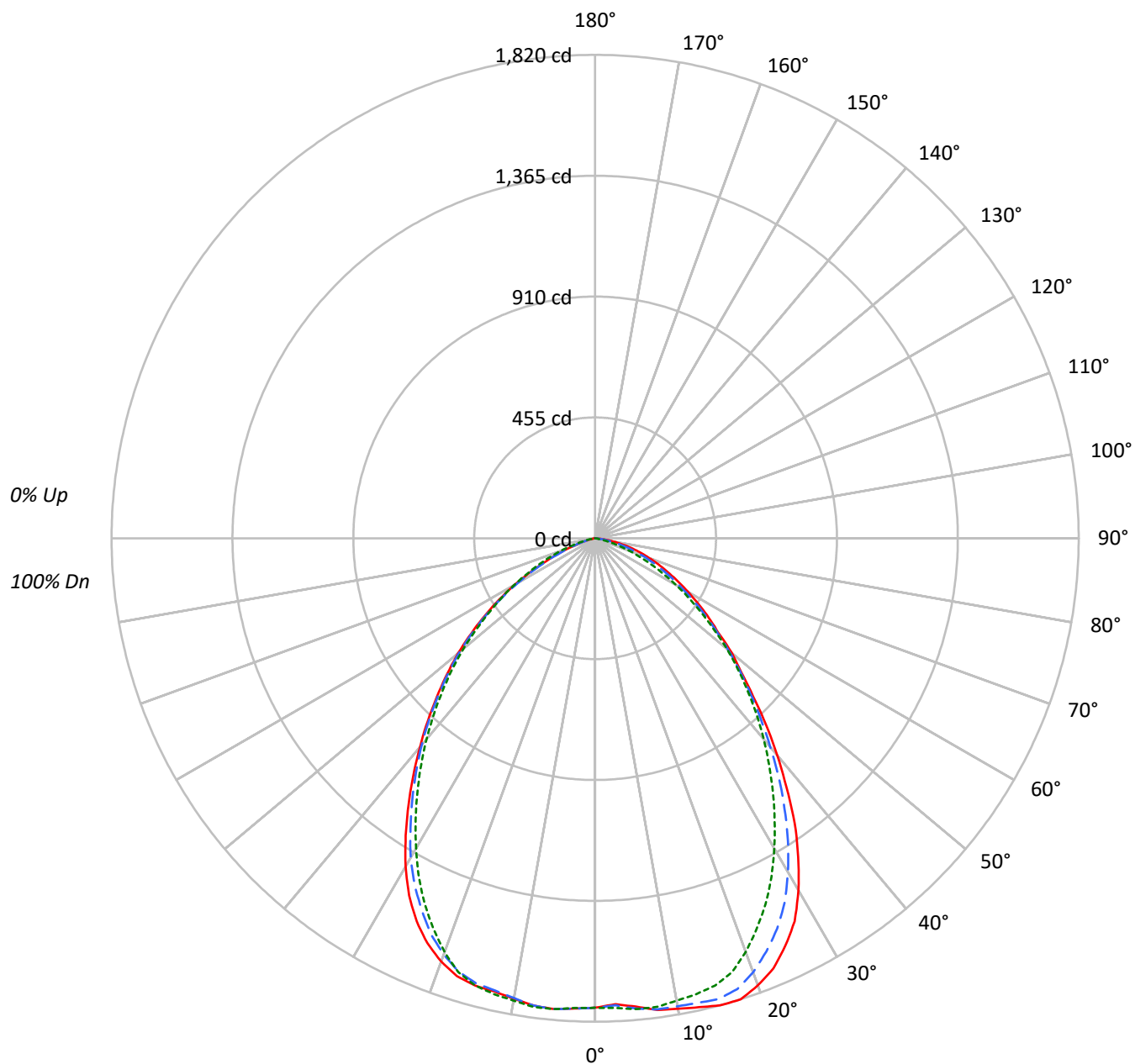
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	96889	96889	96889
5°	97391	97914	97914
10°	100115	98384	97983
15°	103298	98945	98945
20°	104502	96678	98913
25°	102411	91844	96187
30°	96876	85349	90349
35°	87663	78052	81894
40°	76264	70604	73352
45°	65170	62937	65170
50°	57192	55145	57397
55°	49900	46469	48295
60°	44119	38604	38078
65°	39148	30444	26099
70°	34557	21494	15740
75°	29420	12158	7604
80°	21909	3788	2241
85°	12014	1510	1510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	4.8
10°-20°	496.0	13.9
20°-30°	724.5	20.3
30°-40°	759.8	21.3
40°-50°	640.1	17.9
50°-60°	448.5	12.6
60°-70°	240.4	6.7
70°-80°	80.6	2.3
80°-90°	8.8	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°	1390.0	39.0
0°-40°	2149.8	60.2
0°-60°	3238.3	90.8
0°-90°	3568.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3568.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1767	1767	1767	1767	1767	
5°	1770	1777	1779	1779	1779	170
15°	1820	1796	1743	1734	1743	513
25°	1693	1621	1518	1545	1590	776
35°	1310	1243	1166	1200	1224	813
45°	841	826	812	833	841	655
55°	522	505	486	496	505	470
65°	302	275	235	194	201	301
75°	139	108	57	36	36	147
85°	19	10	2	2	2	26
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°	1767.4	1767.4	1767.4	1767.4	1767.4	1767.4	1767.4	1767.4	1767.4
2.5°	1755.4	1755.4	1760.2	1765.0	1769.8	1769.8	1772.2	1774.6	1772.2
5°	1769.8	1769.8	1777.0	1779.3	1779.3	1777.0	1779.3	1779.3	1779.3
7.5°	1791.3	1786.6	1789.0	1784.2	1779.3	1777.0	1774.6	1774.6	1774.6
10°	1798.5	1793.7	1789.0	1779.3	1767.4	1760.2	1757.8	1760.2	1760.2
12.5°	1808.1	1803.4	1791.3	1772.2	1757.8	1745.8	1743.4	1748.2	1748.2
15°	1820.1	1815.2	1796.1	1765.0	1743.4	1731.4	1733.9	1738.7	1743.4
17.5°	1820.1	1810.5	1779.3	1738.7	1712.3	1700.4	1709.9	1721.9	1729.0
20°	1791.3	1781.7	1738.7	1688.4	1657.2	1650.1	1666.9	1688.4	1695.5
22.5°	1753.1	1733.9	1683.6	1623.7	1590.2	1590.2	1614.1	1640.5	1650.1
25°	1693.1	1678.7	1621.3	1551.9	1518.4	1516.0	1544.6	1580.5	1590.2
27.5°	1626.1	1606.9	1544.6	1472.8	1436.9	1439.3	1470.4	1506.3	1516.0
30°	1530.4	1506.3	1451.3	1381.9	1348.3	1357.8	1389.0	1415.4	1427.3
32.5°	1422.5	1401.0	1350.7	1286.0	1257.2	1266.9	1293.2	1317.2	1326.7
35°	1309.9	1286.0	1243.0	1185.4	1166.3	1175.9	1199.8	1219.0	1223.7
37.5°	1183.1	1166.3	1135.1	1089.6	1075.3	1087.2	1106.4	1118.4	1123.1
40°	1065.7	1051.3	1025.0	991.5	986.6	996.3	1015.4	1022.5	1025.0
42.5°	950.7	938.8	922.1	898.1	898.1	907.7	924.4	929.2	931.6
45°	840.6	833.4	826.2	807.1	811.8	823.9	833.4	840.6	840.6
47.5°	744.8	747.2	737.7	723.3	728.0	740.0	747.2	754.4	754.4
50°	670.6	663.3	653.8	639.4	646.6	656.2	665.7	670.6	673.0
52.5°	584.4	581.9	574.8	558.0	562.8	567.6	577.1	584.4	586.8
55°	522.1	514.8	505.3	486.2	486.2	490.9	495.7	500.6	505.3
57.5°	462.2	455.0	440.6	419.1	416.7	416.7	414.4	419.1	426.3
60°	402.4	400.0	378.3	359.2	352.1	344.8	335.3	337.7	347.3
62.5°	349.7	344.8	325.7	301.8	287.4	275.4	263.5	261.0	270.6
65°	301.8	297.0	275.4	251.5	234.7	213.2	193.9	193.9	201.2
67.5°	258.6	249.1	230.0	203.6	182.0	155.6	136.5	141.3	143.6
70°	215.6	208.3	186.8	160.4	134.1	107.7	95.8	98.2	98.2
72.5°	177.2	167.6	146.1	119.7	93.5	69.4	64.7	62.3	62.3
75°	138.9	129.4	107.7	81.4	57.4	40.7	35.9	35.9	35.9
77.5°	100.6	93.5	74.2	50.3	31.2	19.1	16.8	14.4	14.4
80°	69.4	62.3	45.5	26.4	12.0	7.1	7.1	7.1	7.1
82.5°	40.7	33.5	21.5	12.0	4.8	2.4	2.4	2.4	2.4
85°	19.1	14.4	9.6	4.8	2.4	2.4	2.4	2.4	2.4
87.5°	2.4	2.4	2.4	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)