

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: P593212

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040850-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3314.3 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

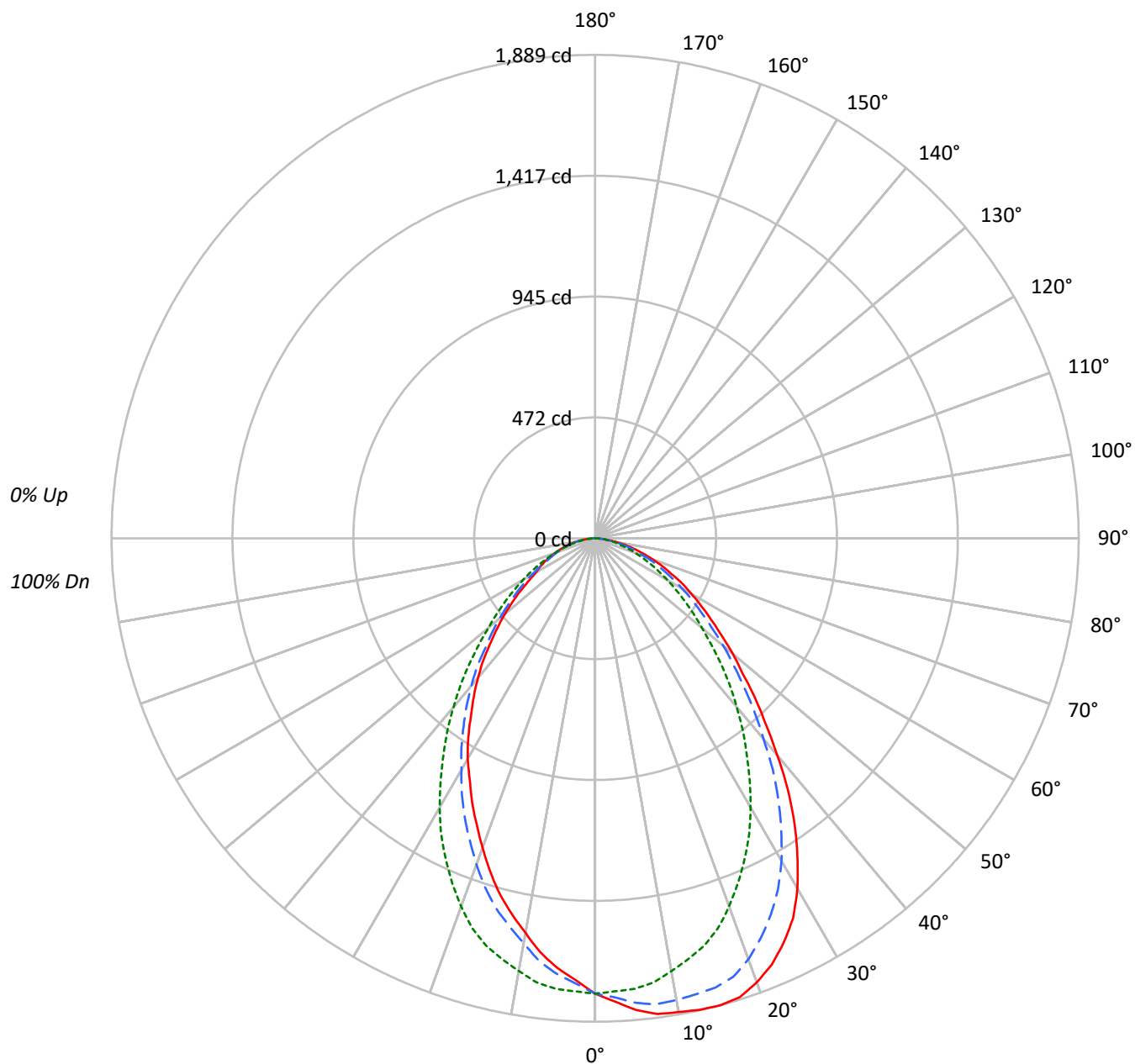
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76		
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66		
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58		
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51		
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46		
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42		
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38		
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34		
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	97536	97536	97536
5°	101860	97248	92774
10°	104641	95573	87184
15°	107231	93502	81680
20°	107710	89269	75017
25°	105448	83575	68804
30°	100041	76854	63054
35°	90861	69071	56570
40°	79177	61515	50903
45°	68511	53843	44741
50°	59836	46361	39214
55°	52863	40744	33652
60°	47518	35710	29153
65°	42547	31067	28265
70°	38003	26495	26495
75°	32957	22303	24866
80°	26455	18910	22667
85°	18115	16605	19625



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	5.0
10°-20°	464.8	14.0
20°-30°	647.8	19.5
30°-40°	667.5	20.1
40°-50°	553.2	16.7
50°-60°	397.5	12.0
60°-70°	253.2	7.6
70°-80°	130.0	3.9
80°-90°	33.1	1.0
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°	1279.9	38.6
0°-40°	1947.3	58.8
0°-60°	2898.0	87.4
0°-90°	3314.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3314.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1779	1779	1779	1779	1779	
5°	1851	1822	1767	1710	1686	177
15°	1889	1818	1648	1497	1439	532
25°	1743	1624	1382	1204	1138	799
35°	1358	1248	1032	896	845	843
45°	884	821	694	606	577	684
55°	553	508	426	378	352	498
65°	328	292	240	208	218	329
75°	156	134	105	110	117	166
85°	29	26	26	29	31	37
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°	1779.2	1779.2	1779.2	1779.2	1779.2	1779.2	1779.2	1779.2	1779.2
2.5°	1812.7	1805.6	1796.0	1786.5	1772.1	1755.3	1740.9	1736.2	1728.9
5°	1851.0	1841.5	1822.4	1798.4	1767.2	1736.2	1709.8	1693.0	1685.9
7.5°	1875.1	1863.0	1836.6	1796.0	1750.4	1705.0	1666.7	1642.7	1633.2
10°	1879.8	1867.8	1831.9	1776.8	1716.9	1654.7	1606.8	1578.0	1566.2
12.5°	1886.9	1870.2	1824.8	1760.1	1683.4	1611.6	1551.8	1515.9	1503.8
15°	1889.4	1870.2	1817.5	1738.6	1647.5	1561.3	1496.7	1453.6	1439.2
17.5°	1879.8	1858.3	1796.0	1700.2	1597.2	1506.2	1429.7	1384.1	1365.0
20°	1846.3	1822.4	1750.4	1642.7	1530.2	1434.4	1355.3	1307.4	1285.9
22.5°	1803.1	1772.1	1690.6	1575.7	1458.3	1357.7	1278.8	1230.9	1209.3
25°	1743.3	1714.5	1623.6	1501.5	1381.7	1276.4	1204.5	1154.3	1137.5
27.5°	1673.9	1640.3	1546.9	1424.8	1302.7	1197.3	1127.9	1082.3	1060.8
30°	1580.4	1549.4	1455.9	1333.8	1214.1	1115.9	1044.1	1005.8	996.1
32.5°	1470.3	1443.9	1353.0	1238.0	1123.1	1032.1	972.2	931.5	922.0
35°	1357.7	1326.7	1247.6	1139.9	1032.1	950.7	895.6	859.6	845.3
37.5°	1235.6	1207.0	1139.9	1044.1	948.2	871.7	823.7	792.6	778.3
40°	1106.4	1084.7	1022.5	945.8	859.6	792.6	751.9	725.5	711.3
42.5°	986.6	965.0	922.0	850.1	778.3	718.4	682.5	658.6	646.6
45°	883.7	864.5	821.4	759.1	694.5	644.2	605.8	589.0	577.1
47.5°	780.7	771.1	732.8	675.4	615.4	572.3	546.0	526.8	517.2
50°	701.6	689.6	653.7	593.9	543.6	510.1	486.1	469.3	459.8
52.5°	620.2	608.3	574.8	524.5	483.7	452.5	428.6	414.2	404.7
55°	553.1	543.6	507.7	462.2	426.3	399.9	378.3	361.6	352.1
57.5°	490.9	481.3	447.8	404.7	373.6	349.6	330.4	316.0	304.1
60°	433.4	426.3	392.7	352.1	325.7	301.8	285.0	273.0	265.9
62.5°	383.1	368.8	340.1	304.1	280.1	261.0	244.2	237.1	241.8
65°	328.0	320.9	292.1	261.0	239.5	220.3	208.3	213.1	217.9
67.5°	282.6	273.0	249.1	220.3	201.2	186.8	179.7	189.2	191.5
70°	237.1	227.5	205.9	182.0	165.3	155.6	155.6	162.9	165.3
72.5°	193.9	186.8	167.6	148.5	136.5	129.4	134.1	138.9	141.3
75°	155.6	148.5	134.1	117.4	105.3	105.3	110.1	115.0	117.4
77.5°	119.7	115.0	100.6	88.6	83.8	83.8	88.6	91.0	93.3
80°	83.8	79.1	71.8	64.7	59.9	64.7	69.4	69.4	71.8
82.5°	55.1	52.7	47.9	43.2	43.2	45.5	47.9	50.3	50.3
85°	28.8	28.8	26.4	23.9	26.4	28.8	28.8	31.2	31.2
87.5°	9.6	9.6	9.6	9.6	12.0	12.0	12.0	12.0	12.0
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)