

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: P582232

Luminaire Tested: **HC630D010-HM63040930-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582232
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-HM63040930-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2857.5 lumens
Efficiency: N/A
Efficacy: 102.1 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

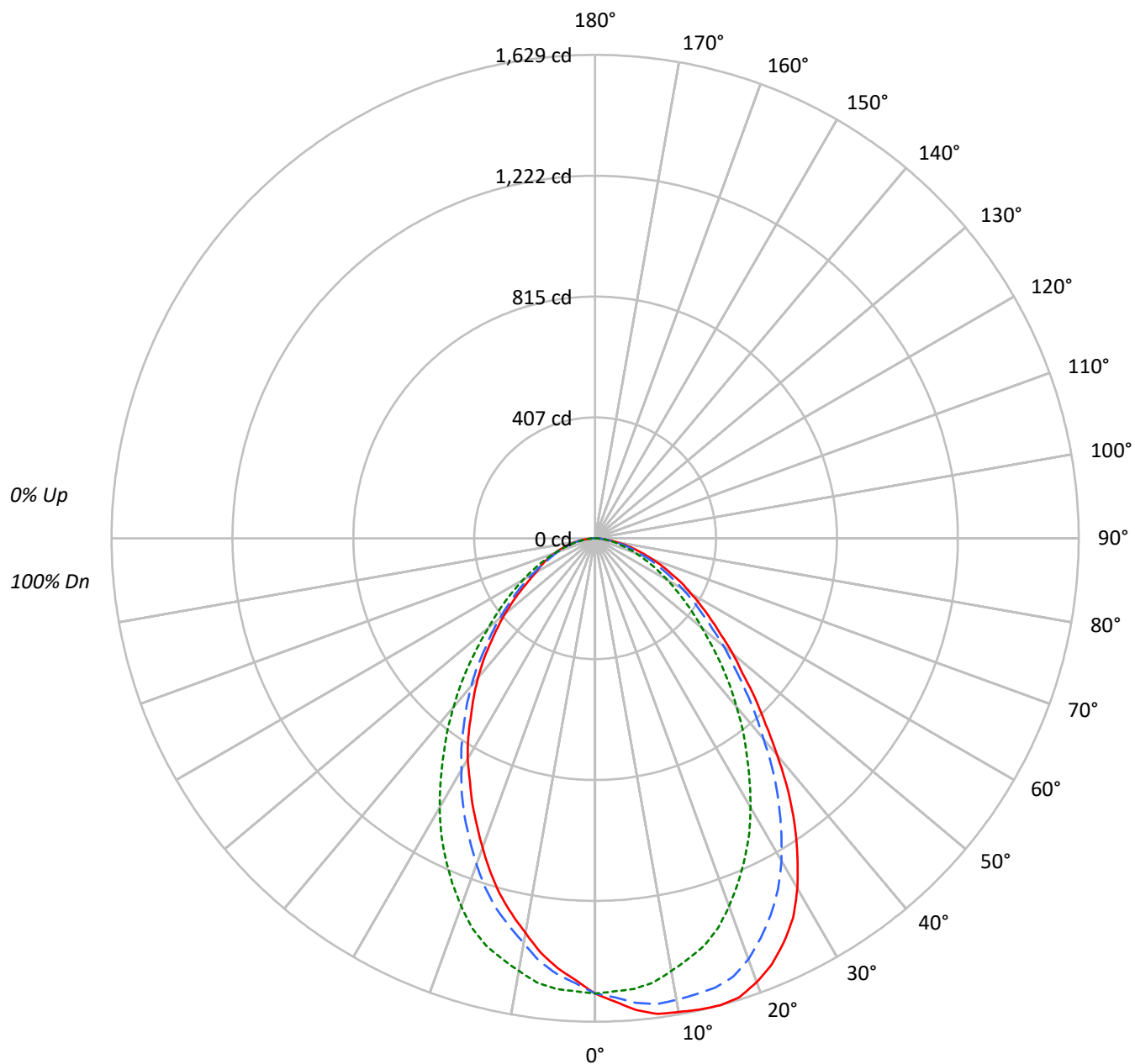
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	84094	84094	84094
5°	87827	83849	79991
10°	90218	82402	75160
15°	92447	80619	70420
20°	92863	76966	64680
25°	90913	72059	59320
30°	86254	66263	54369
35°	78347	59548	48780
40°	68256	53042	43882
45°	59060	46423	38578
50°	51597	39973	33807
55°	45580	35124	29017
60°	40973	30787	25119
65°	36697	26773	24374
70°	32762	22824	22824
75°	28425	19232	21435
80°	22825	16290	19542
85°	15536	14278	16920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.2	5.0
10°-20°	400.8	14.0
20°-30°	558.5	19.5
30°-40°	575.5	20.1
40°-50°	476.9	16.7
50°-60°	342.8	12.0
60°-70°	218.3	7.6
70°-80°	112.1	3.9
80°-90°	28.5	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°	1103.5	38.6
0°-40°	1678.9	58.8
0°-60°	2498.6	87.4
0°-90°	2857.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2857.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1534	1534	1534	1534	1534	
5°	1596	1571	1524	1474	1454	153
15°	1629	1567	1420	1290	1241	459
25°	1503	1400	1191	1038	981	689
35°	1171	1076	890	772	729	727
45°	762	708	599	522	498	590
55°	477	438	368	326	304	430
65°	283	252	206	180	188	283
75°	134	116	91	95	101	143
85°	25	23	23	25	27	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°	1534.0	1534.0	1534.0	1534.0	1534.0	1534.0	1534.0	1534.0	1534.0
2.5°	1562.9	1556.8	1548.4	1540.2	1527.9	1513.4	1501.0	1496.8	1490.6
5°	1596.0	1587.7	1571.1	1550.6	1523.7	1496.8	1474.1	1459.7	1453.6
7.5°	1616.6	1606.2	1583.5	1548.4	1509.2	1470.0	1437.0	1416.3	1408.0
10°	1620.7	1610.4	1579.5	1531.9	1480.3	1426.7	1385.3	1360.6	1350.2
12.5°	1626.9	1612.5	1573.3	1517.5	1451.4	1389.5	1337.9	1306.9	1296.6
15°	1628.9	1612.5	1567.1	1499.0	1420.5	1346.2	1290.4	1253.2	1240.8
17.5°	1620.7	1602.2	1548.4	1465.9	1377.1	1298.6	1232.6	1193.4	1176.9
20°	1591.8	1571.1	1509.2	1416.3	1319.3	1236.7	1168.5	1127.3	1108.7
22.5°	1554.6	1527.9	1457.6	1358.6	1257.4	1170.7	1102.6	1061.2	1042.6
25°	1503.0	1478.3	1399.8	1294.5	1191.3	1100.4	1038.5	995.2	980.7
27.5°	1443.2	1414.3	1333.7	1228.5	1123.1	1032.3	972.5	933.2	914.6
30°	1362.6	1335.8	1255.3	1150.0	1046.8	962.1	900.2	867.1	858.9
32.5°	1267.7	1245.0	1166.5	1067.4	968.3	889.8	838.2	803.2	794.8
35°	1170.7	1143.8	1075.7	982.7	889.8	819.7	772.1	741.2	728.9
37.5°	1065.3	1040.6	982.7	900.2	817.6	751.6	710.2	683.4	671.0
40°	953.8	935.3	881.6	815.5	741.2	683.4	648.2	625.5	613.2
42.5°	850.6	832.1	794.8	732.9	671.0	619.4	588.4	567.7	557.4
45°	761.8	745.4	708.2	654.5	598.8	555.4	522.3	507.9	497.6
47.5°	673.1	664.8	631.7	582.3	530.7	493.4	470.7	454.2	446.0
50°	605.0	594.6	563.6	512.0	468.7	439.8	419.1	404.6	396.4
52.5°	534.7	524.5	495.5	452.2	417.1	390.2	369.5	357.2	349.0
55°	476.9	468.7	437.7	398.4	367.5	344.8	326.3	311.8	303.6
57.5°	423.3	415.0	386.1	349.0	322.1	301.4	284.9	272.5	262.2
60°	373.7	367.5	338.6	303.6	280.8	260.2	245.6	235.4	229.1
62.5°	330.3	317.9	293.2	262.2	241.6	225.1	210.6	204.4	208.6
65°	282.9	276.7	251.8	225.1	206.4	190.0	179.7	183.7	187.9
67.5°	243.6	235.4	214.7	190.0	173.5	161.0	154.8	163.1	165.2
70°	204.4	196.2	177.5	156.9	142.4	134.2	134.2	140.4	142.4
72.5°	167.3	161.0	144.6	128.1	117.7	111.5	115.6	119.7	121.8
75°	134.2	128.1	115.6	101.2	90.8	90.8	95.0	99.0	101.2
77.5°	103.2	99.0	86.7	76.3	72.3	72.3	76.3	78.5	80.5
80°	72.3	68.1	61.9	55.8	51.6	55.8	59.9	59.9	61.9
82.5°	47.4	45.4	41.3	37.2	37.2	39.2	41.3	43.4	43.4
85°	24.7	24.7	22.7	20.7	22.7	24.7	24.7	26.9	26.9
87.5°	8.2	8.2	8.2	8.2	10.3	10.3	10.3	10.3	10.3
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)