

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: P582250

Luminaire Tested: **HC630D010-HM63040935-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582250
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-HM63040935-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2817.5 lumens
Efficiency: N/A
Efficacy: 100.6 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

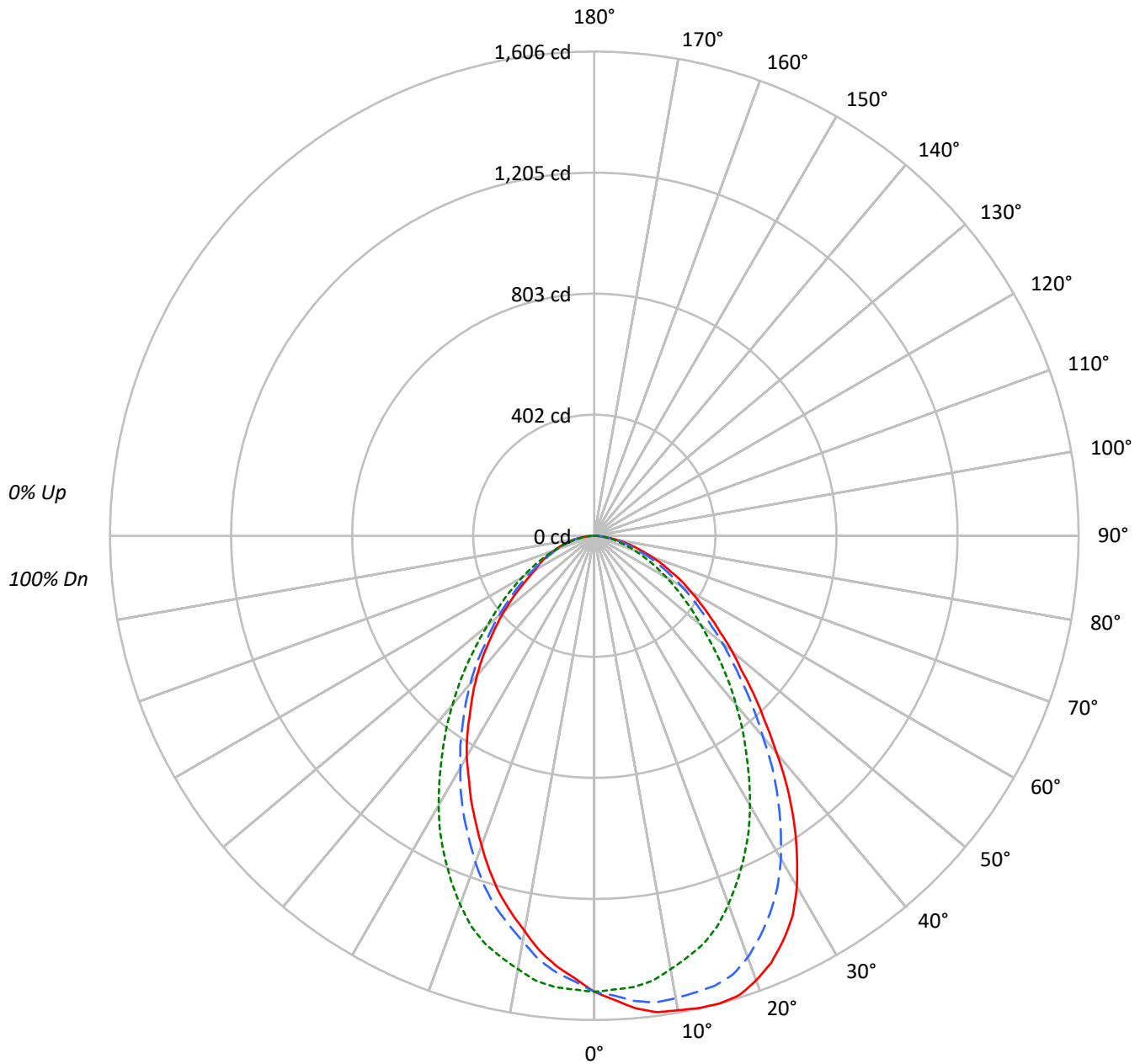
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	82916	82916	82916
5°	86595	82676	78863
10°	88954	81250	74108
15°	91158	79484	69439
20°	91568	75892	63776
25°	89642	71048	58491
30°	85051	65339	53603
35°	77249	58718	48091
40°	67305	52305	43267
45°	58239	45764	38035
50°	50873	39419	33329
55°	44940	34637	28606
60°	40402	30348	24768
65°	36178	26410	24023
70°	32297	22504	22504
75°	28022	18957	21139
80°	22478	16069	19289
85°	15347	14089	16668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.2	5.0
10°-20°	395.2	14.0
20°-30°	550.7	19.5
30°-40°	567.4	20.1
40°-50°	470.3	16.7
50°-60°	338.0	12.0
60°-70°	215.2	7.6
70°-80°	110.5	3.9
80°-90°	28.1	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°	1088.0	38.6
0°-40°	1655.4	58.8
0°-60°	2463.7	87.4
0°-90°	2817.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2817.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1512	1512	1512	1512	1512	
5°	1574	1549	1502	1454	1433	151
15°	1606	1545	1400	1272	1224	453
25°	1482	1380	1175	1024	967	679
35°	1154	1061	877	761	719	717
45°	751	698	590	515	491	581
55°	470	432	362	322	299	424
65°	279	248	204	177	185	279
75°	132	114	90	94	100	141
85°	24	22	22	24	26	31
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°	1512.5	1512.5	1512.5	1512.5	1512.5	1512.5	1512.5	1512.5	1512.5
2.5°	1541.1	1534.9	1526.8	1518.7	1506.5	1492.2	1479.9	1475.9	1469.8
5°	1573.6	1565.4	1549.1	1528.8	1502.4	1475.9	1453.6	1439.3	1433.1
7.5°	1594.0	1583.7	1561.4	1526.8	1488.2	1449.4	1416.8	1396.5	1388.4
10°	1598.0	1587.9	1557.4	1510.5	1459.6	1406.7	1365.9	1341.5	1331.3
12.5°	1604.2	1589.9	1551.2	1496.2	1431.1	1370.1	1319.2	1288.6	1278.4
15°	1606.2	1589.9	1545.1	1477.9	1400.5	1327.3	1272.3	1235.7	1223.5
17.5°	1598.0	1579.7	1526.8	1445.3	1357.8	1280.4	1215.3	1176.6	1160.3
20°	1569.6	1549.1	1488.2	1396.5	1300.9	1219.4	1152.3	1111.5	1093.2
22.5°	1532.9	1506.5	1437.3	1339.5	1239.8	1154.3	1087.1	1046.3	1028.0
25°	1482.0	1457.6	1380.2	1276.4	1174.6	1085.1	1024.0	981.2	967.0
27.5°	1423.0	1394.5	1315.0	1211.2	1107.4	1017.9	958.8	920.2	901.9
30°	1343.6	1317.1	1237.7	1133.9	1032.2	948.7	887.6	855.0	846.8
32.5°	1249.9	1227.5	1150.2	1052.5	954.8	877.4	826.5	791.9	783.8
35°	1154.3	1127.8	1060.6	969.0	877.4	808.2	761.3	730.9	718.6
37.5°	1050.5	1026.0	969.0	887.6	806.1	741.0	700.3	673.8	661.6
40°	940.5	922.2	869.3	804.1	730.9	673.8	639.2	616.9	604.6
42.5°	838.7	820.4	783.8	722.7	661.6	610.7	580.2	559.8	549.7
45°	751.2	734.9	698.3	645.3	590.3	547.7	515.1	500.8	490.6
47.5°	663.7	655.5	622.9	574.0	523.2	486.5	464.2	447.9	439.7
50°	596.5	586.3	555.7	504.8	462.2	433.6	413.3	399.0	390.8
52.5°	527.2	517.1	488.6	445.9	411.3	384.8	364.4	352.2	344.1
55°	470.2	462.2	431.6	392.8	362.4	339.9	321.6	307.4	299.3
57.5°	417.3	409.1	380.7	344.1	317.6	297.2	281.0	268.7	258.5
60°	368.5	362.4	333.9	299.3	276.8	256.5	242.2	232.1	225.9
62.5°	325.7	313.5	289.0	258.5	238.2	221.9	207.6	201.5	205.6
65°	278.9	272.8	248.4	221.9	203.6	187.3	177.2	181.2	185.2
67.5°	240.2	232.1	211.8	187.3	171.0	158.7	152.7	160.9	162.9
70°	201.5	193.5	175.0	154.7	140.4	132.3	132.3	138.4	140.4
72.5°	164.9	158.7	142.4	126.3	116.0	110.0	114.0	118.1	120.1
75°	132.3	126.3	114.0	99.8	89.5	89.5	93.7	97.7	99.8
77.5°	101.8	97.7	85.5	75.3	71.2	71.2	75.3	77.4	79.4
80°	71.2	67.2	61.1	54.9	50.9	54.9	59.1	59.1	61.1
82.5°	46.8	44.8	40.7	36.6	36.6	38.6	40.7	42.8	42.8
85°	24.4	24.4	22.4	20.3	22.4	24.4	24.4	26.5	26.5
87.5°	8.1	8.1	8.1	8.1	10.2	10.2	10.2	10.2	10.2
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)