

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: P593228

Luminaire Tested: **HC630D010-HM63040950-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593228  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC630D010-HM63040950-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3122.0 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

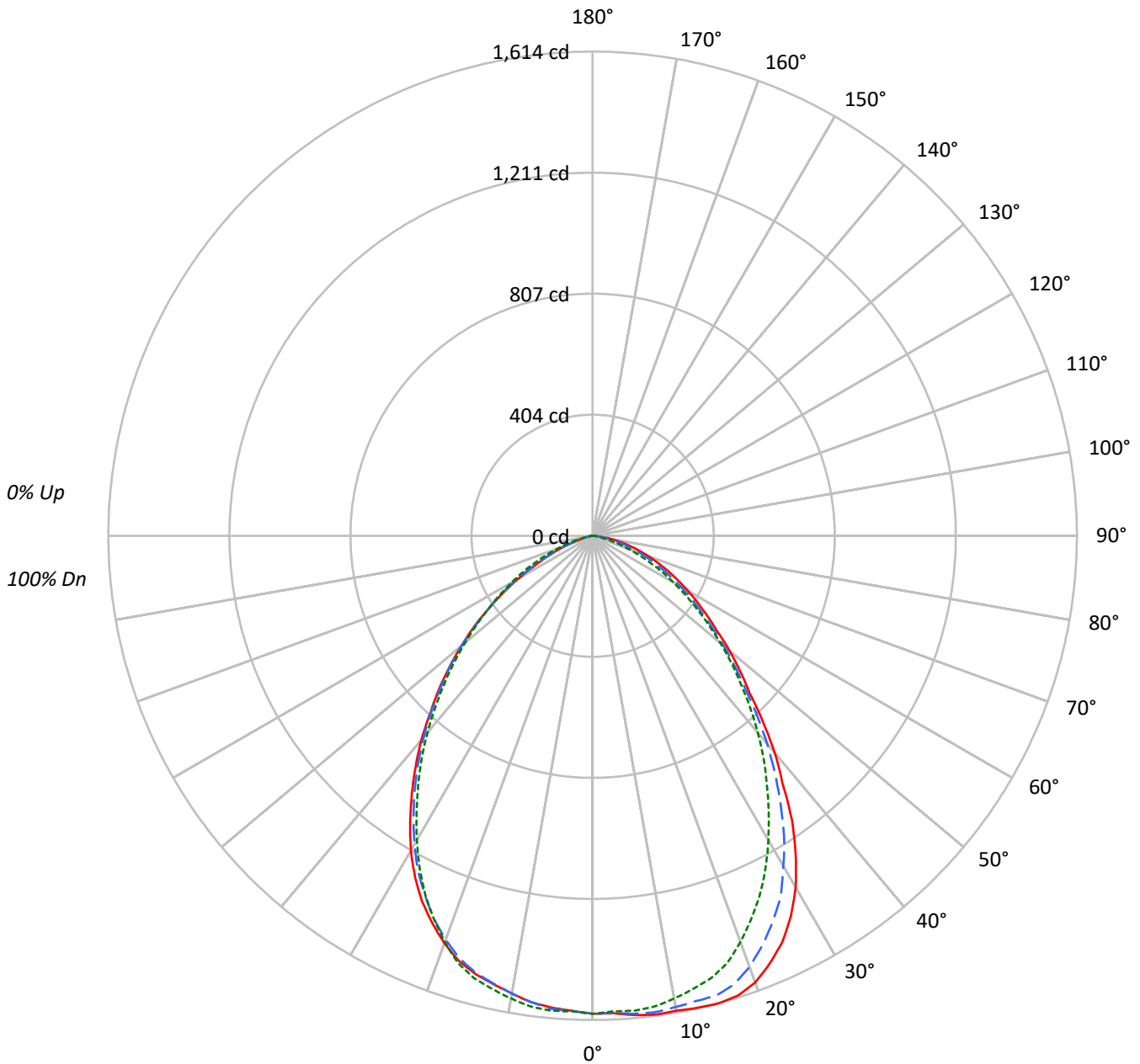
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	93	92	90	88																			
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77																			
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
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	61	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	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°	87345	87345	87345
5°	88251	87447	86870
10°	89505	87184	86249
15°	91612	86629	85801
20°	92461	84054	84299
25°	90441	79825	81343
30°	85652	74151	76664
35°	77557	67780	70296
40°	67541	61265	63512
45°	57308	54230	56176
50°	50753	47376	48612
55°	44710	40515	40324
60°	40063	34120	31368
65°	35750	27357	22493
70°	31464	19747	14057
75°	26540	11946	7964
80°	20426	5241	3315
85°	11825	1321	1321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.2	4.8
10°-20°	434.7	13.9
20°-30°	628.3	20.1
30°-40°	661.1	21.2
40°-50°	555.8	17.8
50°-60°	390.1	12.5
60°-70°	214.6	6.9
70°-80°	76.2	2.4
80°-90°	10.0	0.3
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°	1214.2	38.9
0°-40°	1875.4	60.1
0°-60°	2821.2	90.4
0°-90°	3122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3122.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1593	1593	1593	1593	1593	
5°	1604	1600	1589	1583	1579	153
15°	1614	1587	1526	1508	1512	455
25°	1495	1420	1320	1322	1345	684
35°	1159	1092	1013	1034	1050	718
45°	739	718	700	716	725	580
55°	468	443	424	424	422	421
65°	276	246	211	173	173	274
75°	125	100	56	38	38	135
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°	1593.3	1593.3	1593.3	1593.3	1593.3	1593.3	1593.3	1593.3	1593.3
2.5°	1593.3	1593.3	1591.1	1591.1	1587.0	1587.0	1584.9	1584.9	1584.9
5°	1603.7	1603.7	1599.6	1593.3	1589.1	1582.8	1582.8	1580.8	1578.6
7.5°	1609.9	1607.9	1601.6	1593.3	1582.8	1572.3	1568.2	1570.3	1568.2
10°	1607.9	1603.7	1595.4	1578.6	1566.2	1551.5	1549.4	1547.4	1549.4
12.5°	1612.0	1605.7	1589.1	1568.2	1547.4	1530.6	1528.6	1528.6	1530.6
15°	1614.2	1607.9	1587.0	1555.7	1526.4	1509.7	1507.7	1509.7	1511.8
17.5°	1607.9	1599.6	1568.2	1526.4	1493.0	1476.3	1476.3	1480.5	1484.7
20°	1584.9	1572.3	1528.6	1478.4	1440.8	1428.3	1432.5	1440.8	1445.0
22.5°	1543.1	1528.6	1478.4	1422.0	1382.3	1371.9	1382.3	1392.8	1397.0
25°	1495.2	1478.4	1419.9	1361.5	1319.7	1307.2	1321.8	1338.5	1344.8
27.5°	1430.4	1411.6	1357.2	1290.4	1248.7	1242.4	1259.2	1277.9	1282.1
30°	1353.1	1332.3	1271.6	1209.1	1171.4	1169.4	1188.2	1204.8	1211.1
32.5°	1259.2	1240.4	1188.2	1125.5	1092.1	1092.1	1110.9	1125.5	1131.8
35°	1158.9	1138.0	1092.1	1039.9	1012.8	1014.8	1033.6	1044.1	1050.4
37.5°	1039.9	1033.6	998.2	954.3	935.5	939.7	954.3	962.6	968.9
40°	943.8	927.2	904.1	868.7	856.1	860.4	875.0	883.3	887.5
42.5°	839.4	829.0	810.2	785.1	776.8	783.1	795.6	801.9	799.7
45°	739.2	737.1	718.3	703.7	699.5	707.9	716.3	722.6	724.6
47.5°	666.1	657.8	641.1	630.6	626.5	634.8	643.1	647.3	647.3
50°	595.1	586.8	570.0	559.7	555.5	563.8	570.0	574.3	570.0
52.5°	524.1	515.8	501.2	488.7	486.5	490.7	492.8	494.9	499.0
55°	467.8	459.4	442.7	428.0	423.9	426.0	423.9	423.9	421.9
57.5°	413.4	405.1	388.4	371.7	365.4	363.4	357.1	355.0	352.9
60°	365.4	355.0	338.3	319.5	311.2	302.8	292.4	286.1	286.1
62.5°	319.5	309.0	290.2	273.6	261.0	246.4	229.7	221.4	221.4
65°	275.6	267.3	246.4	227.6	210.9	192.1	173.4	169.2	173.4
67.5°	233.9	225.6	204.6	185.8	164.9	142.0	125.3	125.3	129.5
70°	196.3	188.0	169.2	146.1	123.2	100.2	87.7	87.7	87.7
72.5°	160.8	152.4	131.5	110.7	87.7	64.7	58.5	60.5	58.5
75°	125.3	119.0	100.2	77.3	56.4	39.7	37.6	35.6	37.6
77.5°	93.9	87.7	71.0	50.1	31.3	22.9	20.9	20.9	20.9
80°	64.7	58.5	45.9	29.2	16.6	10.5	10.5	10.5	10.5
82.5°	39.7	33.4	25.1	14.6	6.3	6.3	6.3	6.3	6.3
85°	18.8	14.6	10.5	4.2	2.1	2.1	2.1	2.1	2.1
87.5°	4.2	4.2	2.1	2.1	0.0	2.1	2.1	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)