

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: P593227

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593227  
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-HM63040950-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3111.5 lumens  
Efficiency: N/A  
Efficacy: 111.1 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

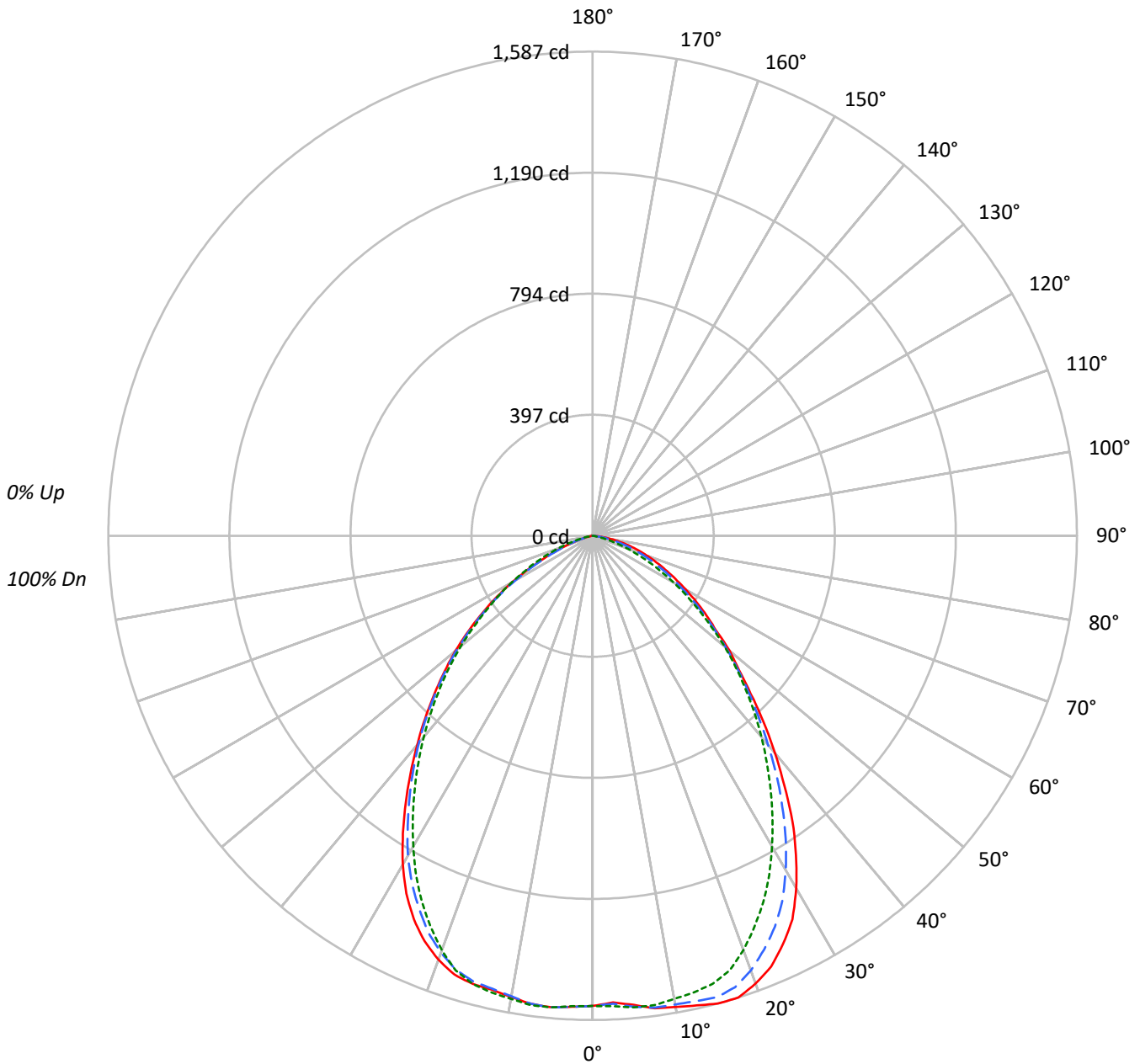
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					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	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°	84489	84489	84489
5°	84927	85384	85384
10°	87306	85792	85447
15°	90080	86289	86289
20°	91130	84305	86253
25°	89310	80091	83872
30°	84469	74429	78784
35°	76453	68067	71414
40°	66503	61573	63963
45°	56828	54882	56828
50°	49875	48084	50045
55°	43516	40515	42111
60°	38473	33660	33199
65°	34128	26540	22752
70°	30133	18753	13720
75°	25671	10633	6630
80°	19100	3315	1989
85°	10567	1321	1321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.8	4.8
10°-20°	432.5	13.9
20°-30°	631.7	20.3
30°-40°	662.5	21.3
40°-50°	558.2	17.9
50°-60°	391.1	12.6
60°-70°	209.7	6.7
70°-80°	70.3	2.3
80°-90°	7.7	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°	1212.1	39.0
0°-40°	1874.6	60.2
0°-60°	2823.9	90.8
0°-90°	3111.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3111.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1541	1541	1541	1541	1541	
5°	1543	1550	1552	1552	1552	148
15°	1587	1566	1520	1512	1520	448
25°	1476	1414	1324	1347	1387	676
35°	1142	1084	1017	1046	1067	709
45°	733	720	708	727	733	571
55°	455	441	424	432	441	410
65°	263	240	205	169	175	263
75°	121	94	50	31	31	128
85°	17	8	2	2	2	23
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°	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2
2.5°	1530.7	1530.7	1535.0	1539.2	1543.3	1543.3	1545.3	1547.5	1545.3
5°	1543.3	1543.3	1549.5	1551.6	1551.6	1549.5	1551.6	1551.6	1551.6
7.5°	1562.1	1557.9	1560.0	1555.8	1551.6	1549.5	1547.5	1547.5	1547.5
10°	1568.4	1564.1	1560.0	1551.6	1541.2	1535.0	1532.9	1535.0	1535.0
12.5°	1576.7	1572.6	1562.1	1545.3	1532.9	1522.4	1520.4	1524.5	1524.5
15°	1587.2	1583.0	1566.3	1539.2	1520.4	1509.9	1511.9	1516.1	1520.4
17.5°	1587.2	1578.8	1551.6	1516.1	1493.1	1482.7	1491.1	1501.6	1507.8
20°	1562.1	1553.8	1516.1	1472.3	1445.1	1438.9	1453.6	1472.3	1478.5
22.5°	1528.7	1511.9	1468.1	1415.9	1386.6	1386.6	1407.5	1430.5	1438.9
25°	1476.5	1463.9	1413.8	1353.2	1324.1	1321.9	1347.0	1378.3	1386.6
27.5°	1418.0	1401.2	1347.0	1284.4	1253.0	1255.1	1282.2	1313.6	1321.9
30°	1334.4	1313.6	1265.6	1204.9	1175.8	1184.1	1211.2	1234.2	1244.6
32.5°	1240.5	1221.7	1177.8	1121.5	1096.4	1104.7	1127.8	1148.6	1156.9
35°	1142.4	1121.5	1083.9	1033.7	1017.1	1025.4	1046.3	1063.0	1067.1
37.5°	1031.7	1017.1	989.8	950.2	937.6	948.1	964.9	975.2	979.5
40°	929.3	916.8	893.8	864.5	860.4	868.8	885.4	891.8	893.8
42.5°	829.1	818.6	804.0	783.1	783.1	791.5	806.1	810.3	812.3
45°	733.0	726.7	720.5	703.8	707.9	718.4	726.7	733.0	733.0
47.5°	649.4	651.6	643.2	630.6	634.8	645.3	651.6	657.9	657.9
50°	584.8	578.4	570.1	557.6	563.8	572.3	580.6	584.8	586.8
52.5°	509.6	507.5	501.2	486.5	490.8	495.0	503.3	509.6	511.6
55°	455.3	449.0	440.6	423.9	423.9	428.2	432.3	436.5	440.6
57.5°	403.1	396.8	384.3	365.5	363.4	363.4	361.3	365.5	371.7
60°	350.9	348.7	329.9	313.3	307.0	300.7	292.4	294.5	302.8
62.5°	304.9	300.7	284.1	263.1	250.6	240.2	229.7	227.6	236.0
65°	263.1	259.0	240.2	219.3	204.6	185.8	169.2	169.2	175.4
67.5°	225.6	217.2	200.5	177.5	158.7	135.8	119.0	123.2	125.3
70°	188.0	181.7	162.9	139.9	117.0	93.9	83.6	85.6	85.6
72.5°	154.6	146.1	127.3	104.4	81.4	60.5	56.4	54.3	54.3
75°	121.2	112.7	93.9	71.0	50.2	35.6	31.3	31.3	31.3
77.5°	87.7	81.4	64.7	43.9	27.1	16.8	14.6	12.5	12.5
80°	60.5	54.3	39.7	22.9	10.5	6.3	6.3	6.3	6.3
82.5°	35.6	29.2	18.8	10.5	4.2	2.1	2.1	2.1	2.1
85°	16.8	12.5	8.3	4.2	2.1	2.1	2.1	2.1	2.1
87.5°	2.1	2.1	2.1	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)