

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: P593226

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593226  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC630D010-HM63040950-61WDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3048.9 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

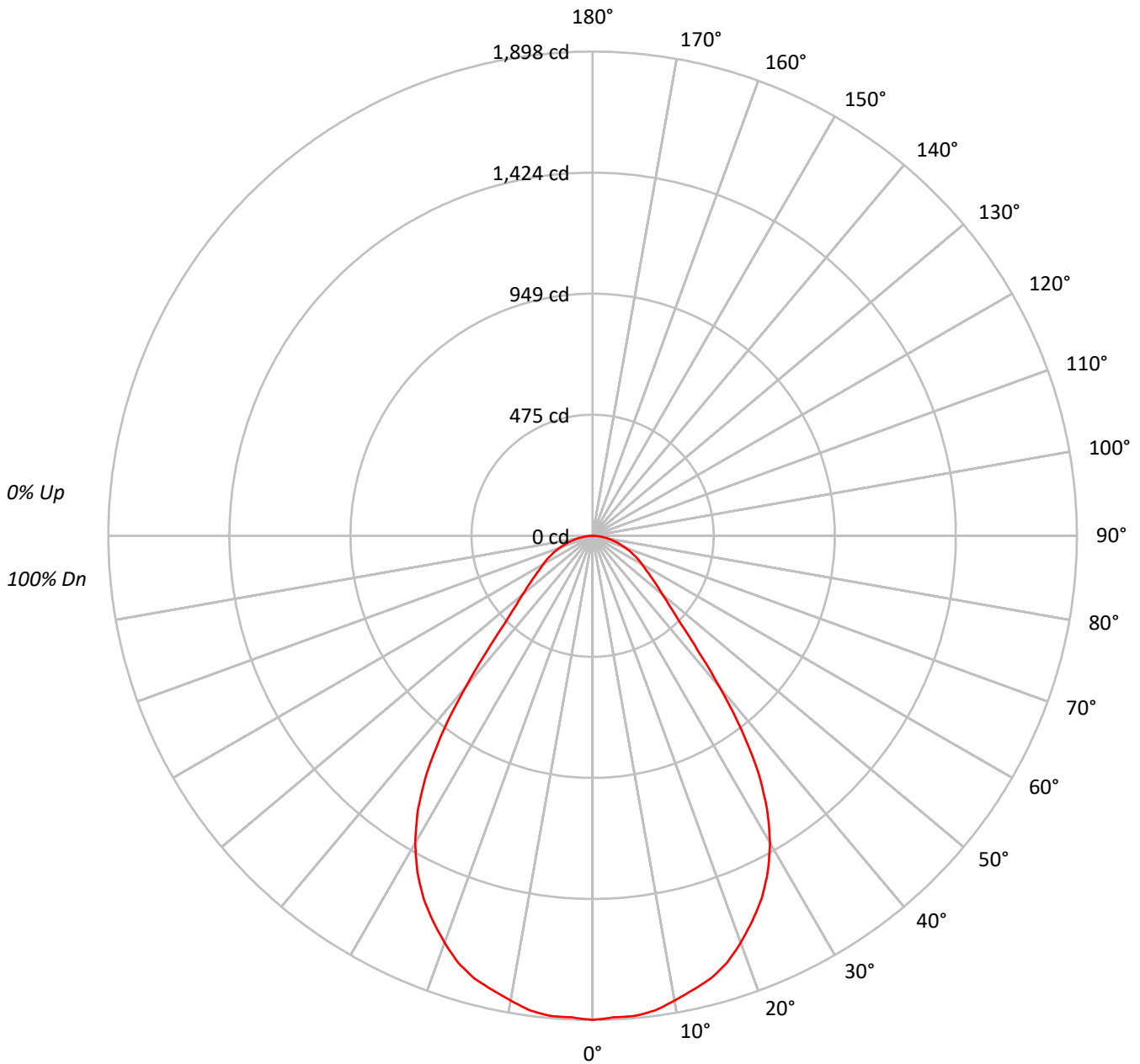
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P593226

CATALOG NUMBER: HC630D010-HM63040950-61WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P593226

CATALOG NUMBER: HC630D010-HM63040950-61WDW

**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			100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			69
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56			56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			36

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	104043
5°	103984
10°	102971
15°	101908
20°	99024
25°	94850
30°	88020
35°	75737
40°	55282
45°	37880
50°	30455
55°	26532
60°	24494
65°	23284
70°	21750
75°	20355
80°	18468
85°	15788



TEST NUMBER: P593226

CATALOG NUMBER: HC630D010-HM63040950-61WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.1	5.9
10°-20°	504.3	16.5
20°-30°	717.2	23.5
30°-40°	690.5	22.6
40°-50°	397.3	13.0
50°-60°	251.7	8.3
60°-70°	178.2	5.8
70°-80°	101.6	3.3
80°-90°	29.0	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°	1400.6	45.9
0°-40°	2091.1	68.6
0°-60°	2740.1	89.9
0°-90°	3048.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3048.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1898	
5°	1890	179
15°	1796	504
25°	1568	717
35°	1132	690
45°	489	397
55°	278	252
65°	180	178
75°	96	102
85°	25	29
90°	0	



TEST NUMBER: P593226

CATALOG NUMBER: HC630D010-HM63040950-61WDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1897.9
2.5°	1889.6
5°	1889.6
7.5°	1877.0
10°	1849.8
12.5°	1822.7
15°	1795.6
17.5°	1753.8
20°	1697.4
22.5°	1634.8
25°	1568.1
27.5°	1486.6
30°	1390.5
32.5°	1273.7
35°	1131.7
37.5°	958.3
40°	772.5
42.5°	609.7
45°	488.6
47.5°	411.3
50°	357.1
52.5°	313.2
55°	277.6
57.5°	246.4
60°	223.4
62.5°	202.5
65°	179.5
67.5°	158.7
70°	135.7
72.5°	114.9
75°	96.1
77.5°	77.3
80°	58.5
82.5°	41.7
85°	25.1
87.5°	10.5
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)