

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: P582192

Luminaire Tested: **HC630D010-HM63040840-61WDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582192  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC630D010-HM63040840-61WDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3541.8 lumens  
Efficiency: N/A  
Efficacy: 126.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

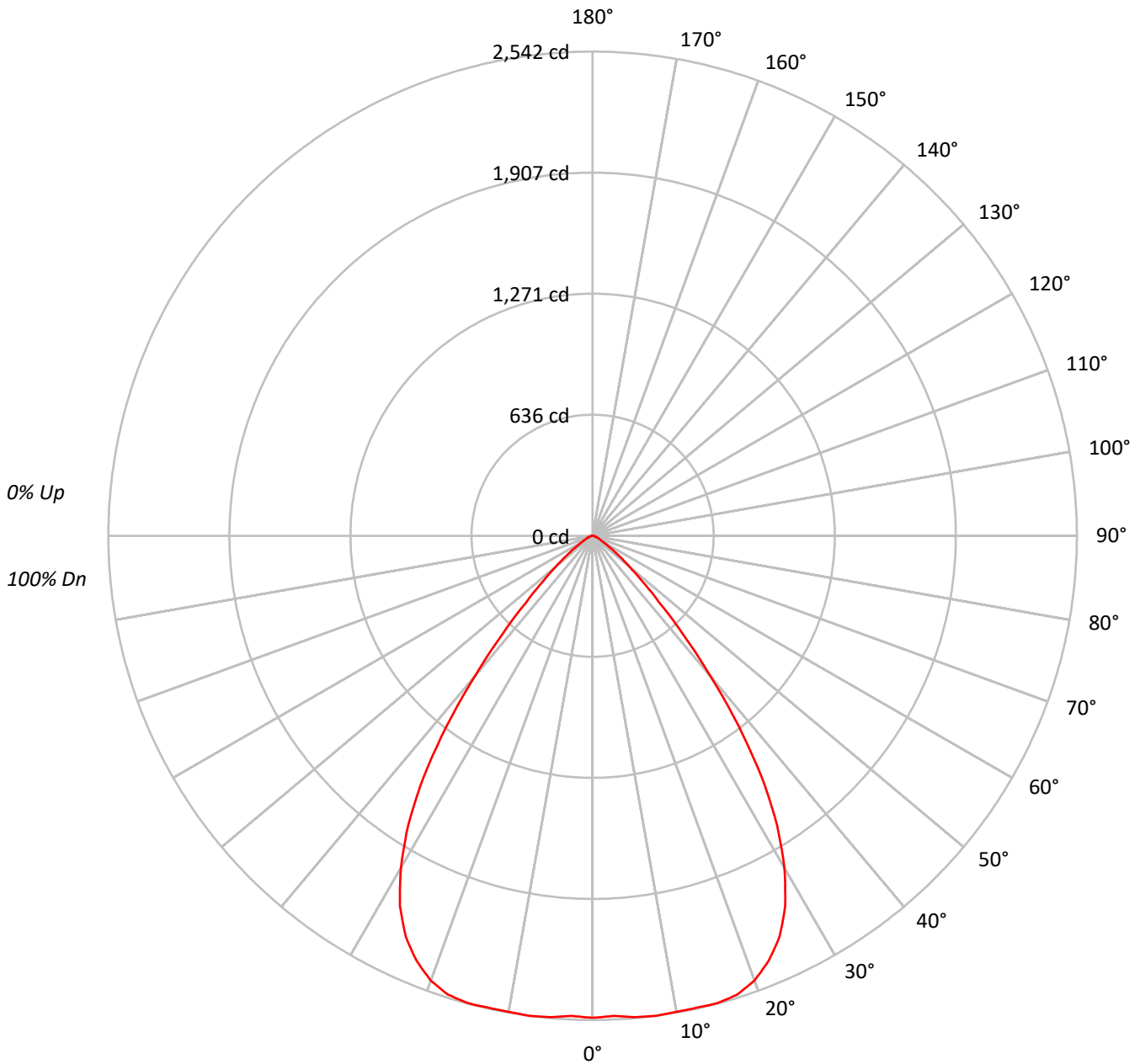
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P582192

CATALOG NUMBER: HC630D010-HM63040840-61WDH

### Luminous Intensity Polar Plot





TEST NUMBER: P582192

CATALOG NUMBER: HC630D010-HM63040840-61WDH

**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	113	110	107	105	110	108	105	103	103	101	100	100	98	97	96	95	94	92			92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84			84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77			77
4	94	86	79	75	92	85	79	74	82	77	73	80	76	72	78	75	72	70			70
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64			64
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59			59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54			54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	51	50			50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46			46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	53	48	44	43			43

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

	0°
0°	138711
5°	139632
10°	141247
15°	144144
20°	144959
25°	140440
30°	127406
35°	103584
40°	68757
45°	38268
50°	21458
55°	11909
60°	6567
65°	4968
70°	3446
75°	2542
80°	1515
85°	1510



TEST NUMBER: P582192

CATALOG NUMBER: HC630D010-HM63040840-61WDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.2	6.8
10°-20°	716.1	20.2
20°-30°	1055.5	29.8
30°-40°	944.1	26.7
40°-50°	409.6	11.6
50°-60°	120.3	3.4
60°-70°	38.4	1.1
70°-80°	13.6	0.4
80°-90°	2.0	0.1
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°	2013.8	56.9
0°-40°	2957.9	83.5
0°-60°	3487.8	98.5
0°-90°	3541.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3541.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2530	
5°	2537	242
15°	2540	716
25°	2322	1056
35°	1548	944
45°	494	410
55°	125	120
65°	38	38
75°	12	14
85°	2	2
90°	0	



TEST NUMBER: P582192

CATALOG NUMBER: HC630D010-HM63040840-61WDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2530.3
2.5°	2523.1
5°	2537.4
7.5°	2542.2
10°	2537.4
12.5°	2537.4
15°	2539.8
17.5°	2525.4
20°	2484.8
22.5°	2415.2
25°	2321.8
27.5°	2190.0
30°	2012.7
32.5°	1801.8
35°	1547.8
37.5°	1258.0
40°	960.8
42.5°	702.1
45°	493.6
47.5°	352.2
50°	251.6
52.5°	179.7
55°	124.6
57.5°	83.8
60°	59.9
62.5°	47.9
65°	38.3
67.5°	28.8
70°	21.5
72.5°	16.8
75°	12.0
77.5°	9.6
80°	4.8
82.5°	2.4
85°	2.4
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)