

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: P593215

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593215  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC630D010-HM63040950-61WDWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3284.8 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

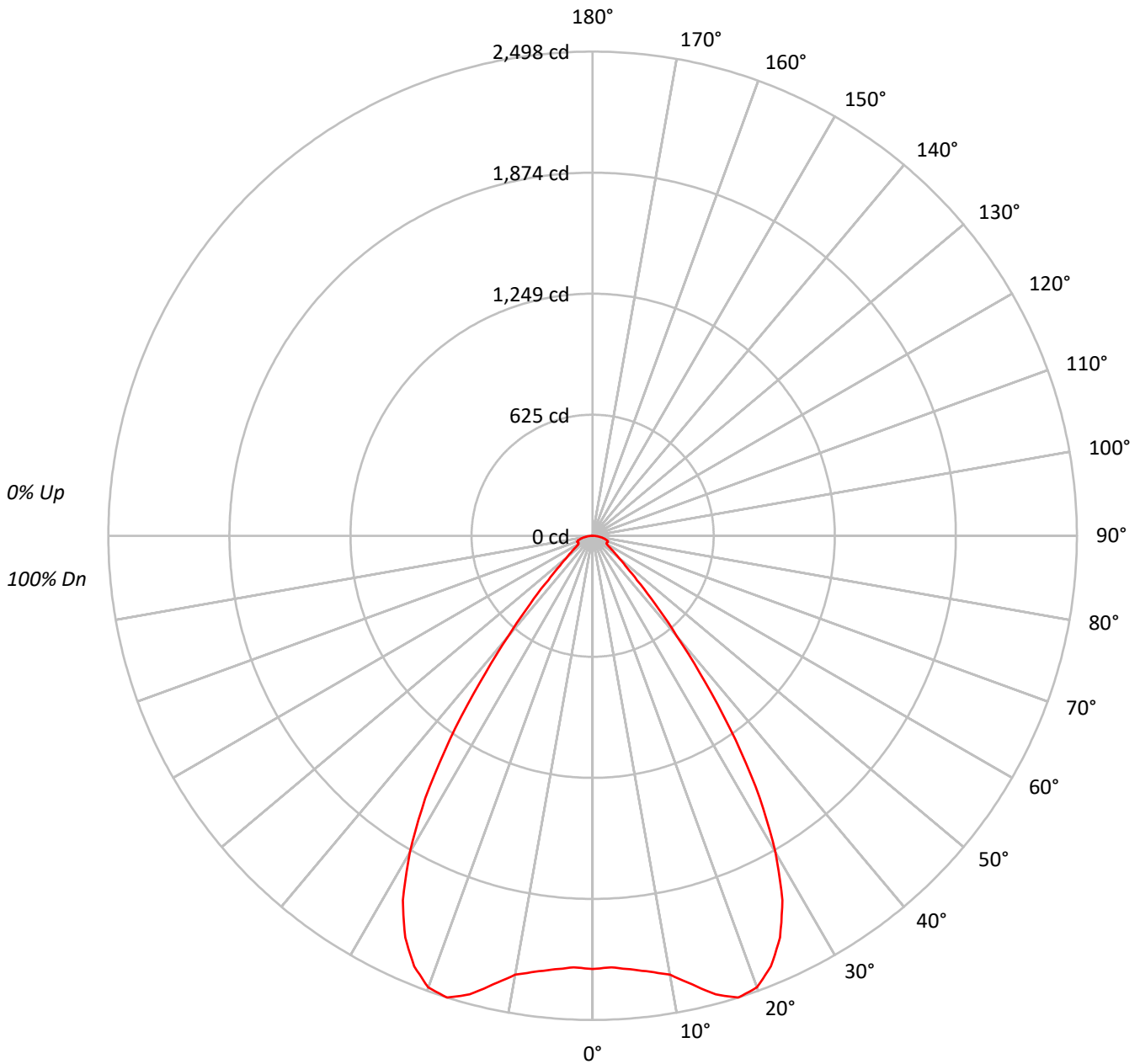
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46			
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			

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

	0°
0°	122512
5°	123558
10°	128004
15°	139042
20°	144633
25°	138335
30°	119385
35°	85963
40°	48426
45°	25103
50°	14968
55°	10781
60°	9166
65°	10559
70°	13400
75°	14149
80°	13859
85°	13146



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.0	6.6
10°-20°	691.0	21.0
20°-30°	1032.8	31.4
30°-40°	789.5	24.0
40°-50°	275.8	8.4
50°-60°	105.1	3.2
60°-70°	82.4	2.5
70°-80°	69.7	2.1
80°-90°	22.4	0.7
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°	1939.9	59.1
0°-40°	2729.4	83.1
0°-60°	3110.2	94.7
0°-90°	3284.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3284.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2235	
5°	2245	216
15°	2450	691
25°	2287	1033
35°	1284	789
45°	324	276
55°	113	105
65°	81	82
75°	67	70
85°	21	22
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2234.8
2.5°	2228.5
5°	2245.3
7.5°	2268.3
10°	2299.5
12.5°	2370.6
15°	2449.9
17.5°	2498.0
20°	2479.2
22.5°	2404.0
25°	2287.0
27.5°	2120.0
30°	1886.0
32.5°	1606.1
35°	1284.5
37.5°	952.4
40°	676.7
42.5°	474.2
45°	323.8
47.5°	227.7
50°	175.5
52.5°	137.8
55°	112.8
57.5°	91.9
60°	83.6
62.5°	81.4
65°	81.4
67.5°	85.6
70°	83.6
72.5°	77.3
75°	66.8
77.5°	56.4
80°	43.9
82.5°	31.3
85°	20.9
87.5°	8.3
90°	0.0



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— 0°-180°







(END OF REPORT)