

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: P582201

Luminaire Tested: **HC630D010-HM63040927-61MDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582201  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC630D010-HM63040927-61MDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2387.2 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

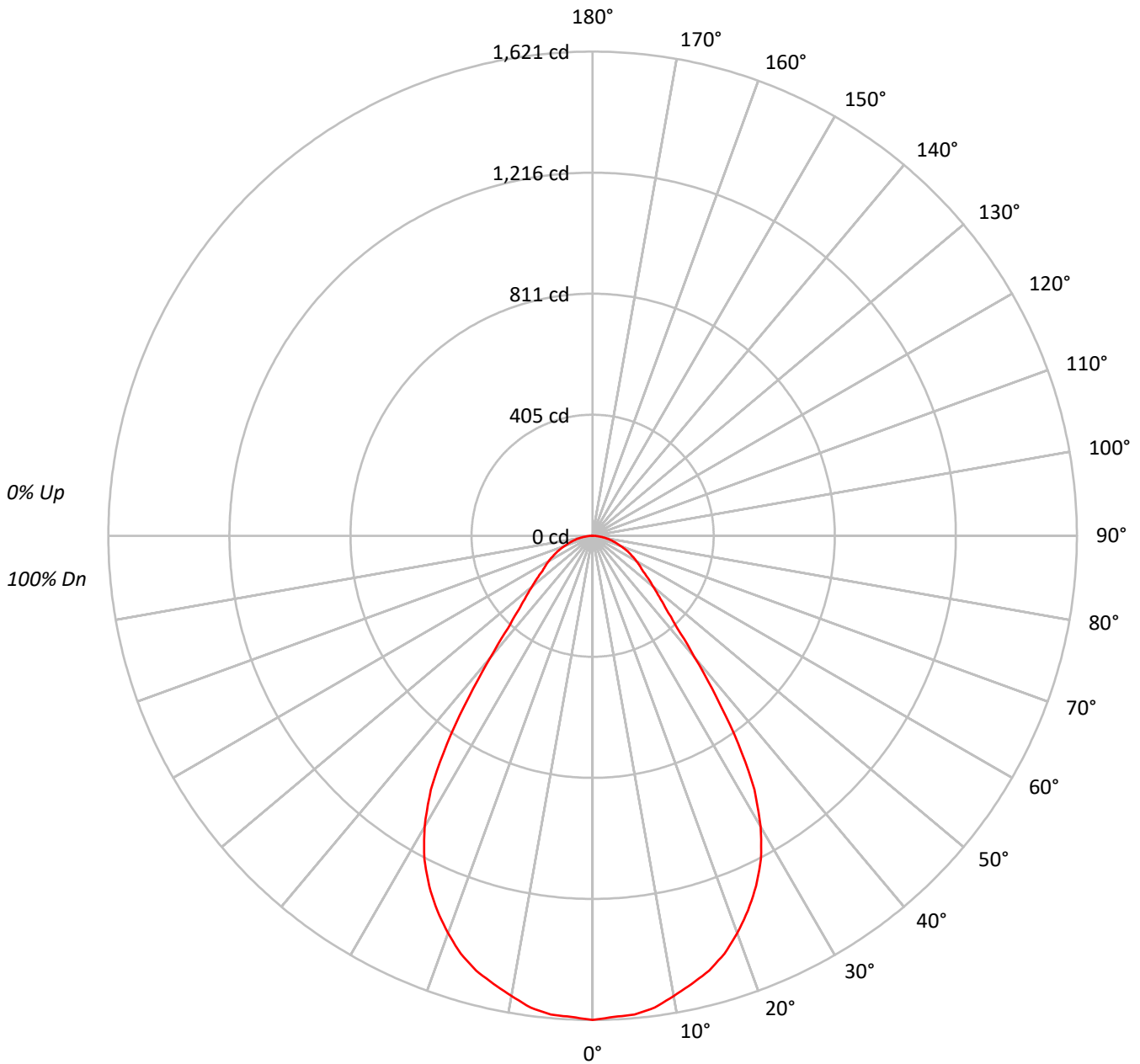
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

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

	0°
0°	88863
5°	88543
10°	87061
15°	85523
20°	82572
25°	78289
30°	71213
35°	56905
40°	37964
45°	27065
50°	22549
55°	19660
60°	18562
65°	17486
70°	16060
75°	15017
80°	13638
85°	11951



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.2	6.4
10°-20°	423.1	17.7
20°-30°	591.3	24.8
30°-40°	520.9	21.8
40°-50°	281.4	11.8
50°-60°	188.2	7.9
60°-70°	133.4	5.6
70°-80°	75.0	3.1
80°-90°	21.9	0.9
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°	1166.5	48.9
0°-40°	1687.4	70.7
0°-60°	2157.0	90.4
0°-90°	2387.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2387.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1621	
5°	1609	152
15°	1507	423
25°	1294	591
35°	850	521
45°	349	281
55°	206	188
65°	135	133
75°	71	75
85°	19	22
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1621.0
2.5°	1612.4
5°	1609.0
7.5°	1593.4
10°	1564.0
12.5°	1536.3
15°	1506.9
17.5°	1467.2
20°	1415.4
22.5°	1358.3
25°	1294.3
27.5°	1220.0
30°	1125.0
32.5°	1007.6
35°	850.3
37.5°	679.2
40°	530.5
42.5°	418.2
45°	349.1
47.5°	302.5
50°	264.4
52.5°	233.3
55°	205.7
57.5°	186.7
60°	169.3
62.5°	152.1
65°	134.8
67.5°	117.5
70°	100.2
72.5°	84.7
75°	70.9
77.5°	57.1
80°	43.2
82.5°	31.2
85°	19.0
87.5°	8.7
90°	0.0



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— 0°-180°







(END OF REPORT)