

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: P593206

Luminaire Tested: **HC630D010-HM63040850-61NDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593206  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC630D010-HM63040850-61NDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3259.3 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

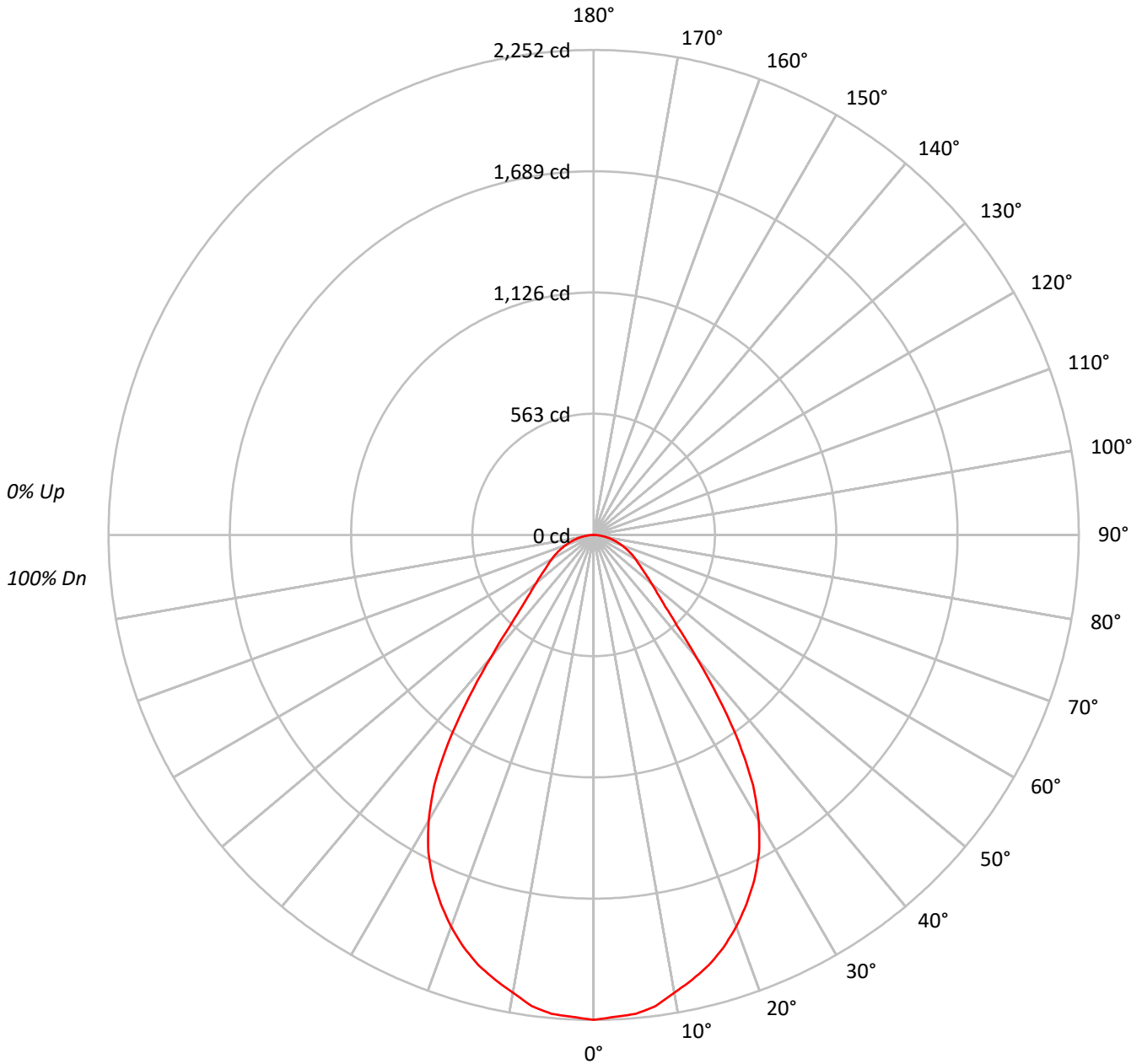
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	83	86	83	81	79			79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57			57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44			44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

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

	0°
0°	123444
5°	122865
10°	120149
15°	117333
20°	112920
25°	106790
30°	97053
35°	78554
40°	52978
45°	36399
50°	29833
55°	26102
60°	24691
65°	23310
70°	21879
75°	20800
80°	18910
85°	16605



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.8	6.5
10°-20°	580.6	17.8
20°-30°	806.6	24.7
30°-40°	718.2	22.0
40°-50°	381.2	11.7
50°-60°	249.3	7.6
60°-70°	178.7	5.5
70°-80°	103.6	3.2
80°-90°	30.3	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°	1597.9	49.0
0°-40°	2316.1	71.1
0°-60°	2946.7	90.4
0°-90°	3259.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3259.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2252	
5°	2233	211
15°	2067	581
25°	1766	807
35°	1174	718
45°	470	381
55°	273	249
65°	180	179
75°	98	104
85°	26	30
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2251.8
2.5°	2239.8
5°	2232.7
7.5°	2206.3
10°	2158.4
12.5°	2115.3
15°	2067.4
17.5°	2007.5
20°	1935.6
22.5°	1854.1
25°	1765.5
27.5°	1662.6
30°	1533.2
32.5°	1377.5
35°	1173.8
37.5°	948.7
40°	740.3
42.5°	574.9
45°	469.5
47.5°	400.1
50°	349.8
52.5°	309.0
55°	273.1
57.5°	246.7
60°	225.2
62.5°	203.7
65°	179.7
67.5°	158.1
70°	136.5
72.5°	117.4
75°	98.2
77.5°	79.1
80°	59.9
82.5°	43.2
85°	26.4
87.5°	12.0
90°	0.0



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— 0°-180°







(END OF REPORT)