

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: P580283

Luminaire Tested: **HC430D010-HM43040830-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC430D010-HM43040830-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2699.9 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

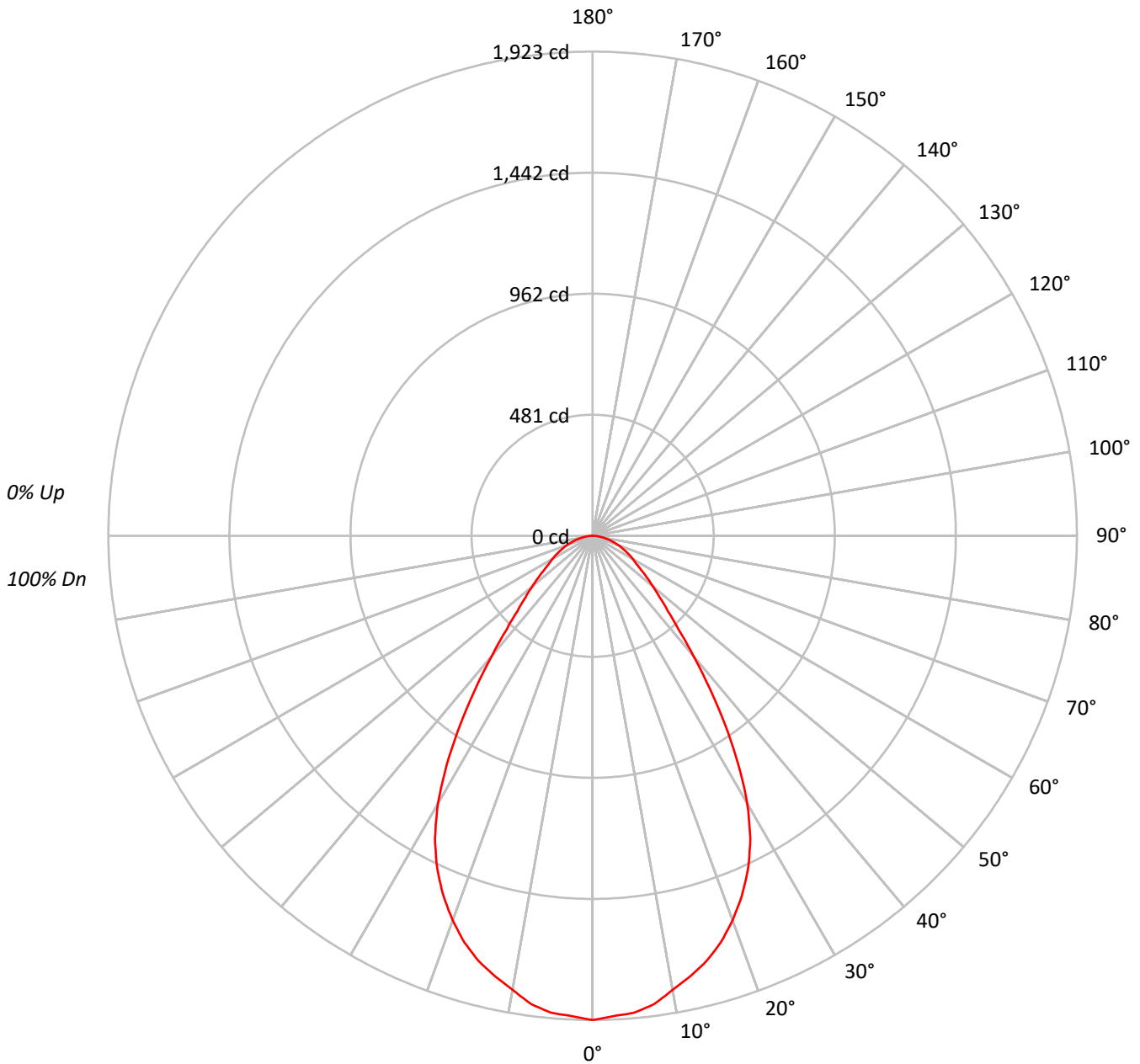
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89																			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79																			
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71																			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64																			
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58																			
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52																			
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48																			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44																			
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41																			
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	237194
5°	235438
10°	229317
15°	223265
20°	213274
25°	198701
30°	174958
35°	137989
40°	100168
45°	73595
50°	59870
55°	50213
60°	45490
65°	41824
70°	38913
75°	35552
80°	32035
85°	27739



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.3	6.6
10°-20°	490.4	18.2
20°-30°	664.8	24.6
30°-40°	570.4	21.1
40°-50°	336.8	12.5
50°-60°	213.4	7.9
60°-70°	143.4	5.3
70°-80°	79.2	2.9
80°-90°	22.2	0.8
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°	1334.5	49.4
0°-40°	1904.9	70.6
0°-60°	2455.2	90.9
0°-90°	2699.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2699.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1923	
5°	1902	179
15°	1748	490
25°	1460	665
35°	916	570
45°	422	337
55°	234	213
65°	143	143
75°	75	79
85°	20	22
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1923.0
2.5°	1909.3
5°	1901.5
7.5°	1876.0
10°	1830.9
12.5°	1791.6
15°	1748.4
17.5°	1693.5
20°	1624.8
22.5°	1548.3
25°	1460.0
27.5°	1356.0
30°	1228.4
32.5°	1077.2
35°	916.4
37.5°	761.4
40°	622.1
42.5°	506.2
45°	421.9
47.5°	361.1
50°	312.0
52.5°	270.8
55°	233.5
57.5°	204.1
60°	184.4
62.5°	164.8
65°	143.3
67.5°	125.5
70°	107.9
72.5°	90.2
75°	74.6
77.5°	58.9
80°	45.1
82.5°	31.4
85°	19.6
87.5°	7.9
90°	0.0



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— 0°-180°







(END OF REPORT)