

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: P580139

Luminaire Tested: **HC425D010-HM40525830-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580139
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: HC425D010-HM40525830-41NDW
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: 2200.3 lumens
Efficiency: N/A
Efficacy: 82.1 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

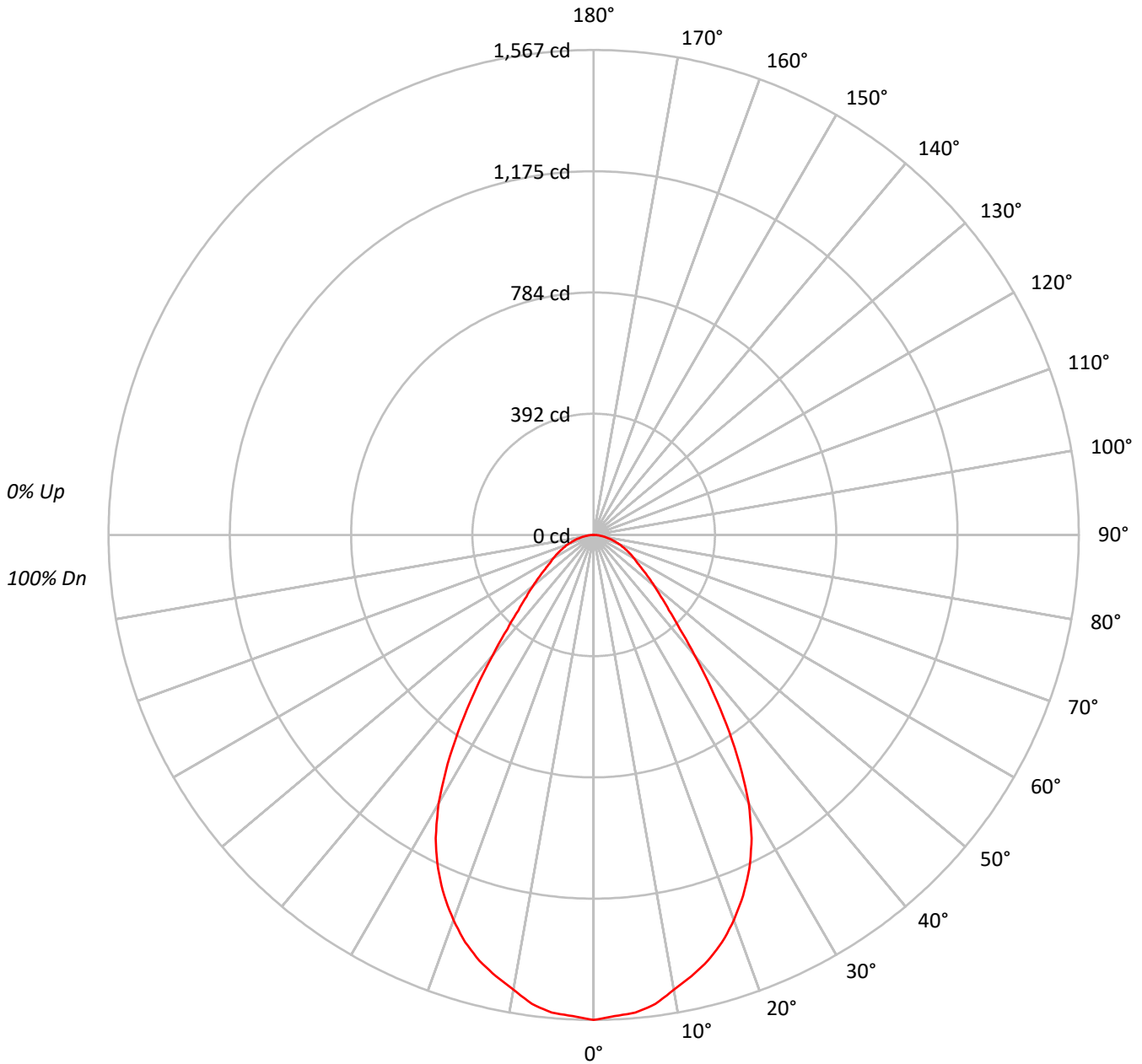
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	193307
5°	191866
10°	186871
15°	181942
20°	173804
25°	161914
30°	142584
35°	112451
40°	81619
45°	59971
50°	48798
55°	40923
60°	37078
65°	34060
70°	31700
75°	28928
80°	26140
85°	22644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.1	6.6
10°-20°	399.6	18.2
20°-30°	541.8	24.6
30°-40°	464.9	21.1
40°-50°	274.5	12.5
50°-60°	173.9	7.9
60°-70°	116.9	5.3
70°-80°	64.5	2.9
80°-90°	18.1	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°	1087.5	49.4
0°-40°	1552.4	70.6
0°-60°	2000.8	90.9
0°-90°	2200.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2200.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1567	
5°	1550	146
15°	1425	400
25°	1190	542
35°	747	465
45°	344	274
55°	190	174
65°	117	117
75°	61	65
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1567.2
2.5°	1556.0
5°	1549.6
7.5°	1528.8
10°	1492.0
12.5°	1460.0
15°	1424.8
17.5°	1380.1
20°	1324.1
22.5°	1261.8
25°	1189.7
27.5°	1105.1
30°	1001.1
32.5°	877.9
35°	746.8
37.5°	620.5
40°	506.9
42.5°	412.5
45°	343.8
47.5°	294.2
50°	254.3
52.5°	220.7
55°	190.3
57.5°	166.3
60°	150.3
62.5°	134.4
65°	116.7
67.5°	102.4
70°	87.9
72.5°	73.6
75°	60.7
77.5°	48.0
80°	36.8
82.5°	25.6
85°	16.0
87.5°	6.4
90°	0.0



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— 0°-180°







(END OF REPORT)