

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: P580148

Luminaire Tested: **HC425D010-HM40525835-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC425D010-HM40525835-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2675.1 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

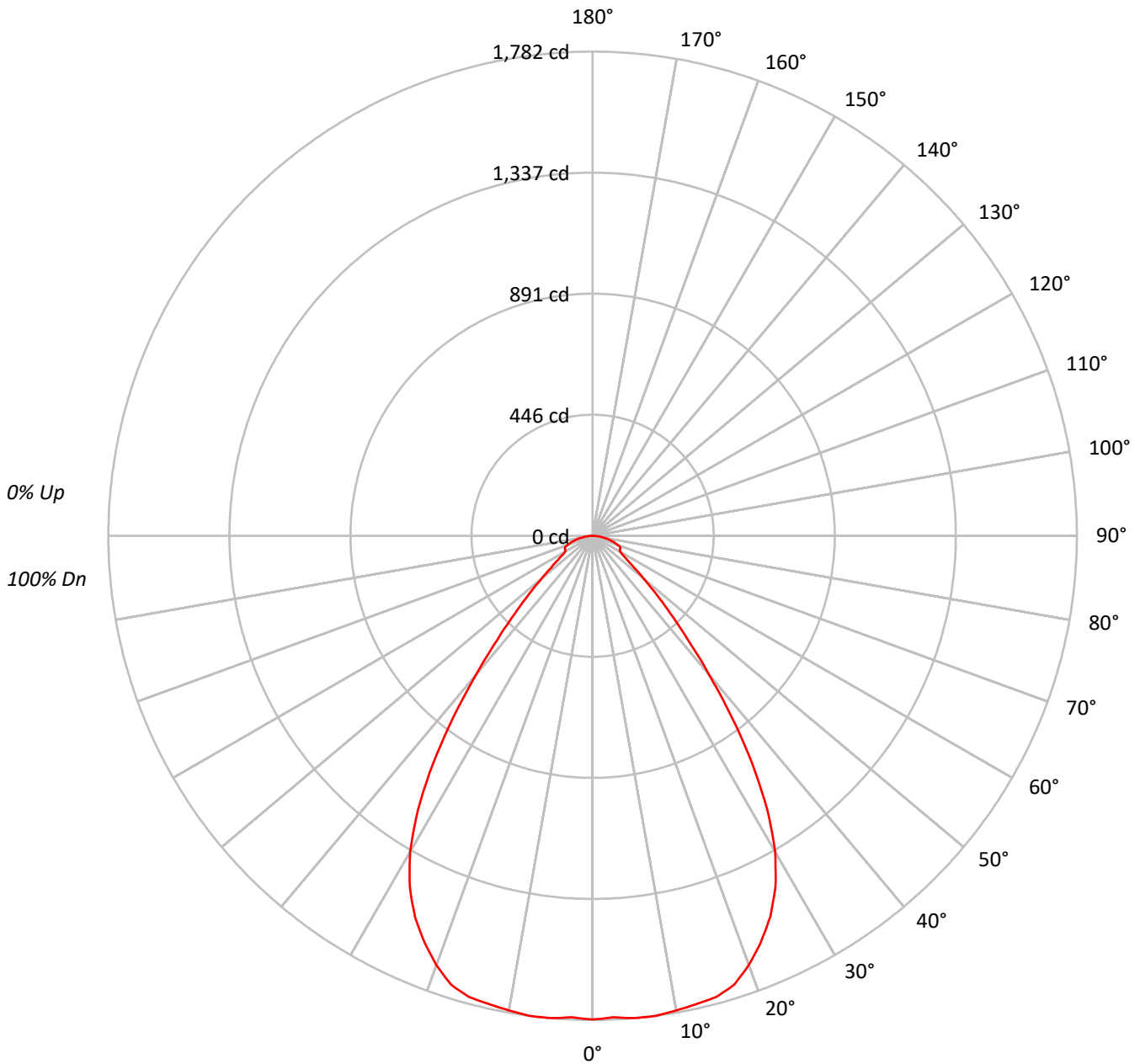
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65	65	65	65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59	59	59	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54	54	54	54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49	49	49	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46	46	46	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42	42	42	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39	39	39	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	219617
5°	220654
10°	222178
15°	224402
20°	220664
25°	210501
30°	191251
35°	154281
40°	107044
45°	70263
50°	47071
55°	33504
60°	28641
65°	32922
70°	35270
75°	33932
80°	30615
85°	28163



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.8	6.3
10°-20°	493.7	18.5
20°-30°	705.3	26.4
30°-40°	630.1	23.6
40°-50°	323.1	12.1
50°-60°	146.9	5.5
60°-70°	109.6	4.1
70°-80°	74.5	2.8
80°-90°	22.1	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°	1368.8	51.2
0°-40°	1998.9	74.7
0°-60°	2468.9	92.3
0°-90°	2675.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2675.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1780	
5°	1782	170
15°	1757	494
25°	1547	705
35°	1025	630
45°	403	323
55°	156	147
65°	113	110
75°	71	75
85°	20	22
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1780.5
2.5°	1773.9
5°	1782.1
7.5°	1782.1
10°	1773.9
12.5°	1765.5
15°	1757.3
17.5°	1732.5
20°	1681.1
22.5°	1618.1
25°	1546.7
27.5°	1457.2
30°	1342.8
32.5°	1197.0
35°	1024.6
37.5°	840.5
40°	664.8
42.5°	518.9
45°	402.8
47.5°	315.0
50°	245.3
52.5°	192.3
55°	155.8
57.5°	131.0
60°	116.1
62.5°	112.8
65°	112.8
67.5°	109.4
70°	97.8
72.5°	84.6
75°	71.2
77.5°	56.3
80°	43.1
82.5°	31.5
85°	19.9
87.5°	8.2
90°	0.0



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— 0°-180°







(END OF REPORT)