

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: P580184

Luminaire Tested: **HC425D010-HM40525927-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580184
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-HM40525927-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2038.5 lumens
Efficiency: N/A
Efficacy: 76.1 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

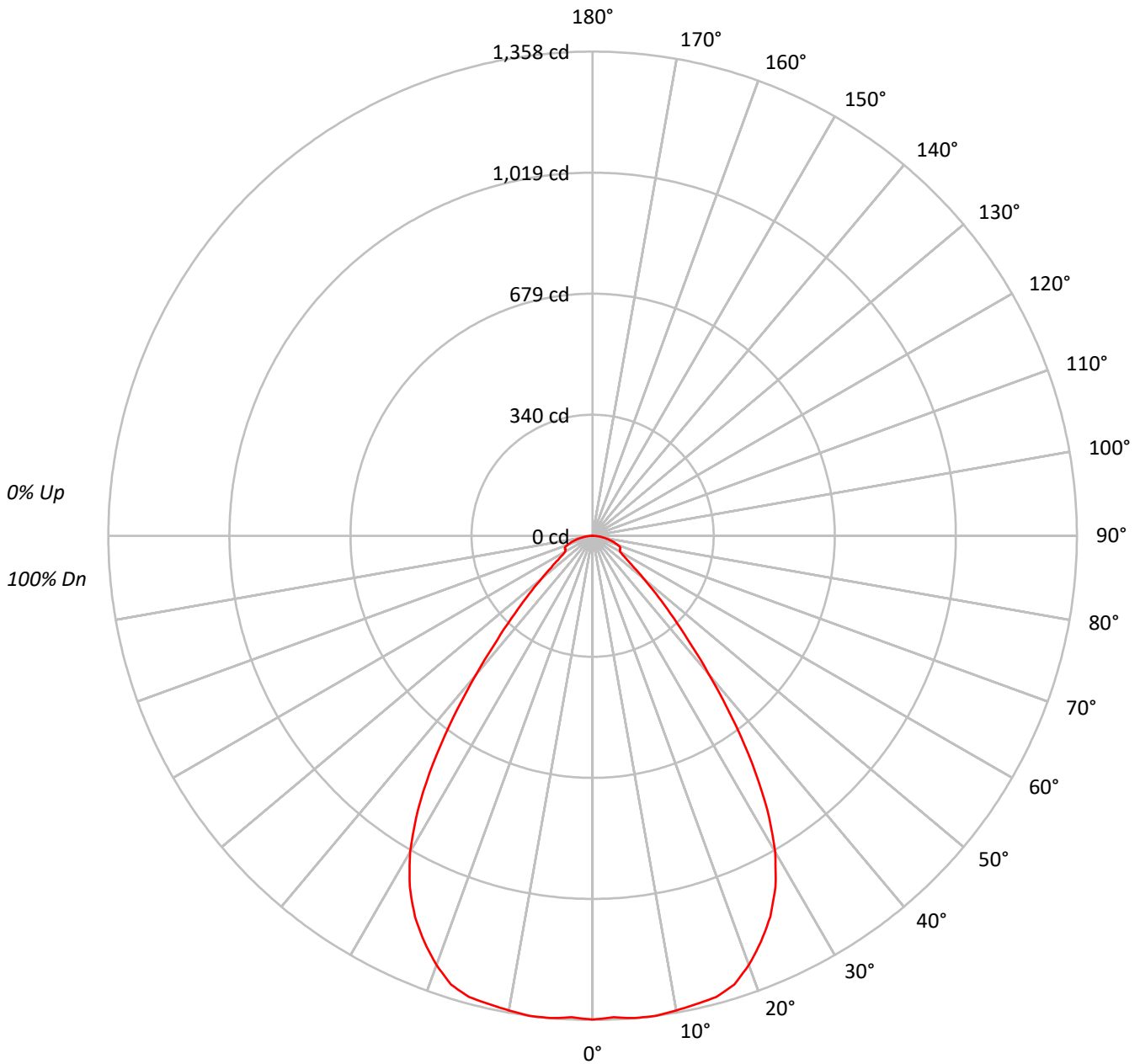
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	167355
5°	168156
10°	169311
15°	170999
20°	168146
25°	160417
30°	145746
35°	117556
40°	81571
45°	53552
50°	35884
55°	25548
60°	21808
65°	25071
70°	26868
75°	25878
80°	23370
85°	21370



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	6.3
10°-20°	376.2	18.5
20°-30°	537.5	26.4
30°-40°	480.1	23.6
40°-50°	246.3	12.1
50°-60°	111.9	5.5
60°-70°	83.5	4.1
70°-80°	56.8	2.8
80°-90°	16.8	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°	1043.1	51.2
0°-40°	1523.2	74.7
0°-60°	1881.4	92.3
0°-90°	2038.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2038.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1357	
5°	1358	129
15°	1339	376
25°	1179	537
35°	781	480
45°	307	246
55°	119	112
65°	86	83
75°	54	57
85°	15	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1356.8
2.5°	1351.8
5°	1358.1
7.5°	1358.1
10°	1351.8
12.5°	1345.4
15°	1339.1
17.5°	1320.1
20°	1281.0
22.5°	1233.0
25°	1178.7
27.5°	1110.5
30°	1023.3
32.5°	912.1
35°	780.7
37.5°	640.5
40°	506.6
42.5°	395.4
45°	307.0
47.5°	240.0
50°	187.0
52.5°	146.5
55°	118.8
57.5°	99.8
60°	88.4
62.5°	85.9
65°	85.9
67.5°	83.4
70°	74.5
72.5°	64.5
75°	54.3
77.5°	42.9
80°	32.9
82.5°	24.0
85°	15.1
87.5°	6.3
90°	0.0



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— 0°-180°







(END OF REPORT)