

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: P580228

Luminaire Tested: **HC425D010-HM40525935-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580228
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC425D010-HM40525935-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2137.4 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

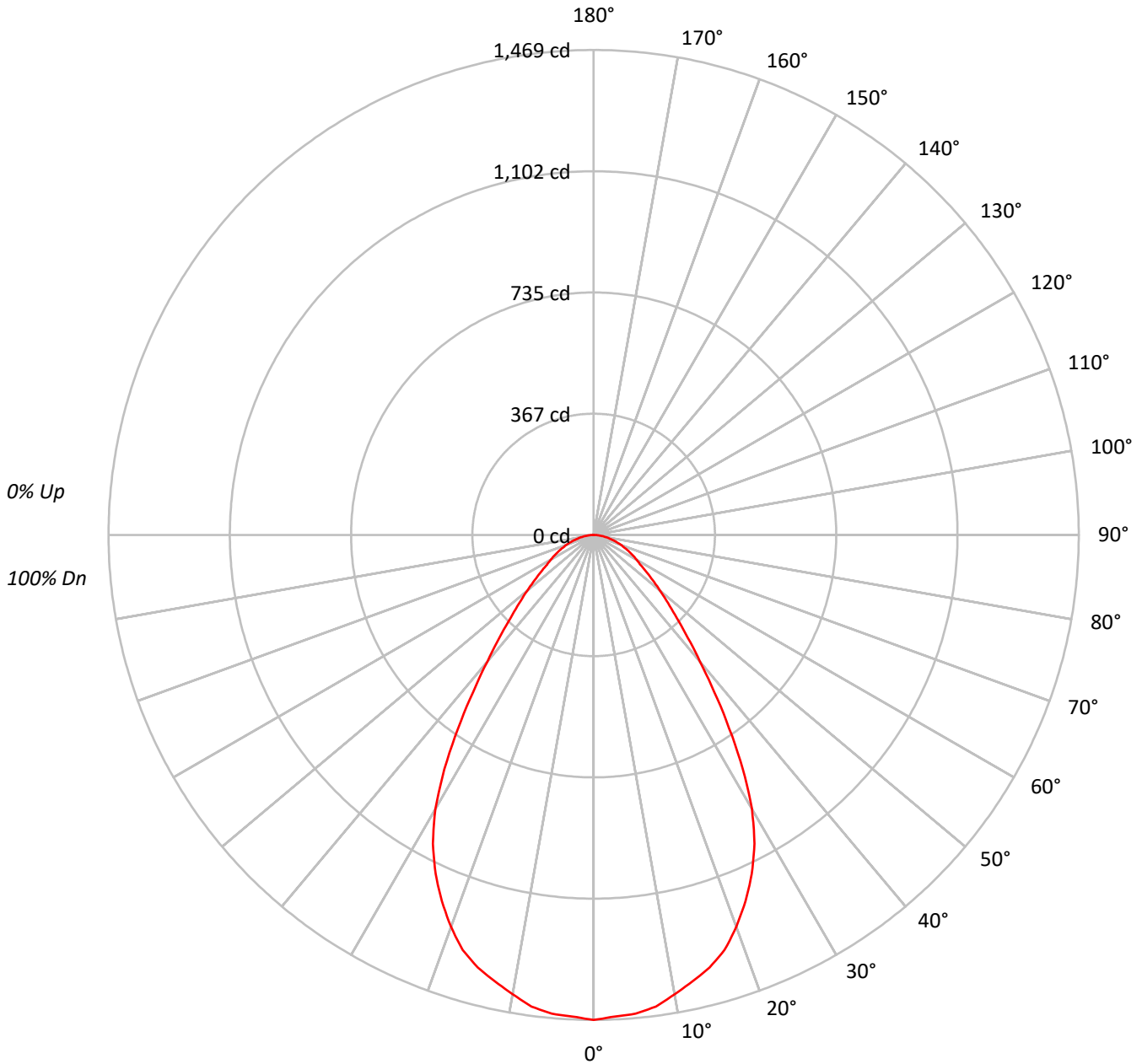
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	181219
5°	180252
10°	176951
15°	173233
20°	165810
25°	154198
30°	136474
35°	107708
40°	80605
45°	61995
50°	50314
55°	41719
60°	36905
65°	34148
70°	31520
75°	28928
80°	26282
85°	20945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	6.4
10°-20°	380.4	17.8
20°-30°	516.6	24.2
30°-40°	447.5	20.9
40°-50°	280.9	13.1
50°-60°	176.7	8.3
60°-70°	116.1	5.4
70°-80°	64.0	3.0
80°-90°	17.5	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°	1034.6	48.4
0°-40°	1482.1	69.3
0°-60°	1939.8	90.8
0°-90°	2137.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2137.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1469	
5°	1456	138
15°	1357	380
25°	1133	517
35°	715	447
45°	355	281
55°	194	177
65°	117	116
75°	61	64
85°	15	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1469.2
2.5°	1460.2
5°	1455.8
7.5°	1440.9
10°	1412.8
12.5°	1384.7
15°	1356.6
17.5°	1318.1
20°	1263.2
22.5°	1201.0
25°	1133.0
27.5°	1054.5
30°	958.2
32.5°	841.2
35°	715.3
37.5°	599.8
40°	500.6
42.5°	422.1
45°	355.4
47.5°	305.1
50°	262.2
52.5°	225.1
55°	194.0
57.5°	167.3
60°	149.6
62.5°	133.3
65°	117.0
67.5°	100.7
70°	87.4
72.5°	72.6
75°	60.7
77.5°	47.4
80°	37.0
82.5°	25.2
85°	14.8
87.5°	5.9
90°	0.0



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— 0°-180°







(END OF REPORT)