

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: P580158

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC425D010-HM40525835-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2343.6 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

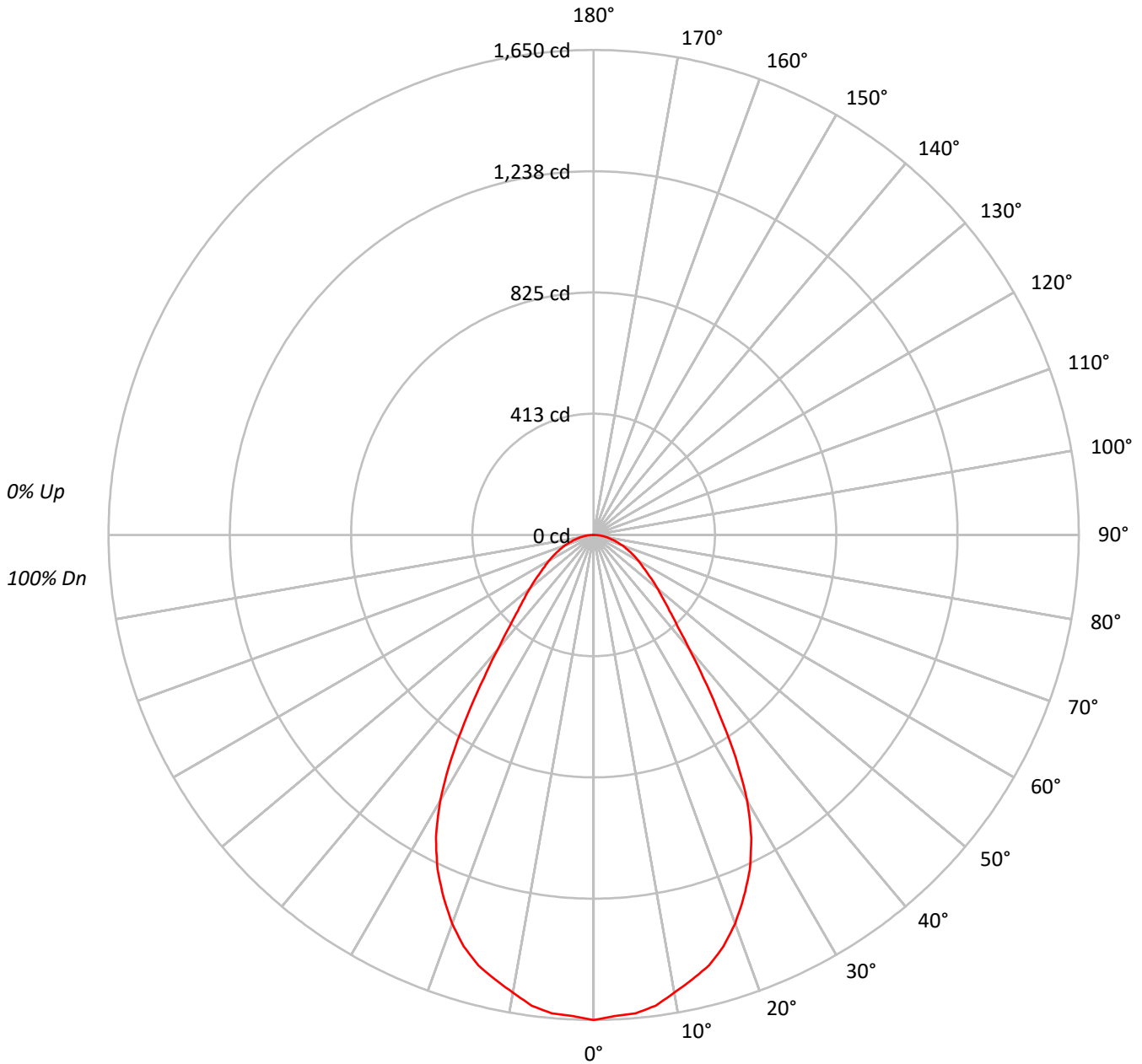
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	203570
5°	202292
10°	197993
15°	193601
20°	184659
25°	170938
30°	148680
35°	112285
40°	81362
45°	63600
50°	54382
55°	47031
60°	43344
65°	39664
70°	37038
75°	33932
80°	31751
85°	30569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.3	6.6
10°-20°	424.7	18.1
20°-30°	571.1	24.4
30°-40°	469.6	20.0
40°-50°	288.4	12.3
50°-60°	199.6	8.5
60°-70°	136.1	5.8
70°-80°	75.8	3.2
80°-90°	24.2	1.0
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°	1150.1	49.1
0°-40°	1619.7	69.1
0°-60°	2107.6	89.9
0°-90°	2343.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2343.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1650	
5°	1634	154
15°	1516	425
25°	1256	571
35°	746	470
45°	365	288
55°	219	200
65°	136	136
75°	71	76
85°	22	24
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1650.4
2.5°	1638.7
5°	1633.8
7.5°	1615.6
10°	1580.8
12.5°	1549.3
15°	1516.1
17.5°	1468.2
20°	1406.8
22.5°	1333.9
25°	1256.0
27.5°	1161.5
30°	1043.9
32.5°	899.8
35°	745.7
37.5°	613.0
40°	505.3
42.5°	422.6
45°	364.6
47.5°	319.8
50°	283.4
52.5°	250.2
55°	218.7
57.5°	195.5
60°	175.7
62.5°	155.8
65°	135.9
67.5°	119.3
70°	102.7
72.5°	86.1
75°	71.2
77.5°	56.3
80°	44.7
82.5°	33.2
85°	21.6
87.5°	11.6
90°	0.0



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— 0°-180°







(END OF REPORT)