

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: P580193

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580193
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-HM40525927-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1737.9 lumens
Efficiency: N/A
Efficacy: 64.8 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

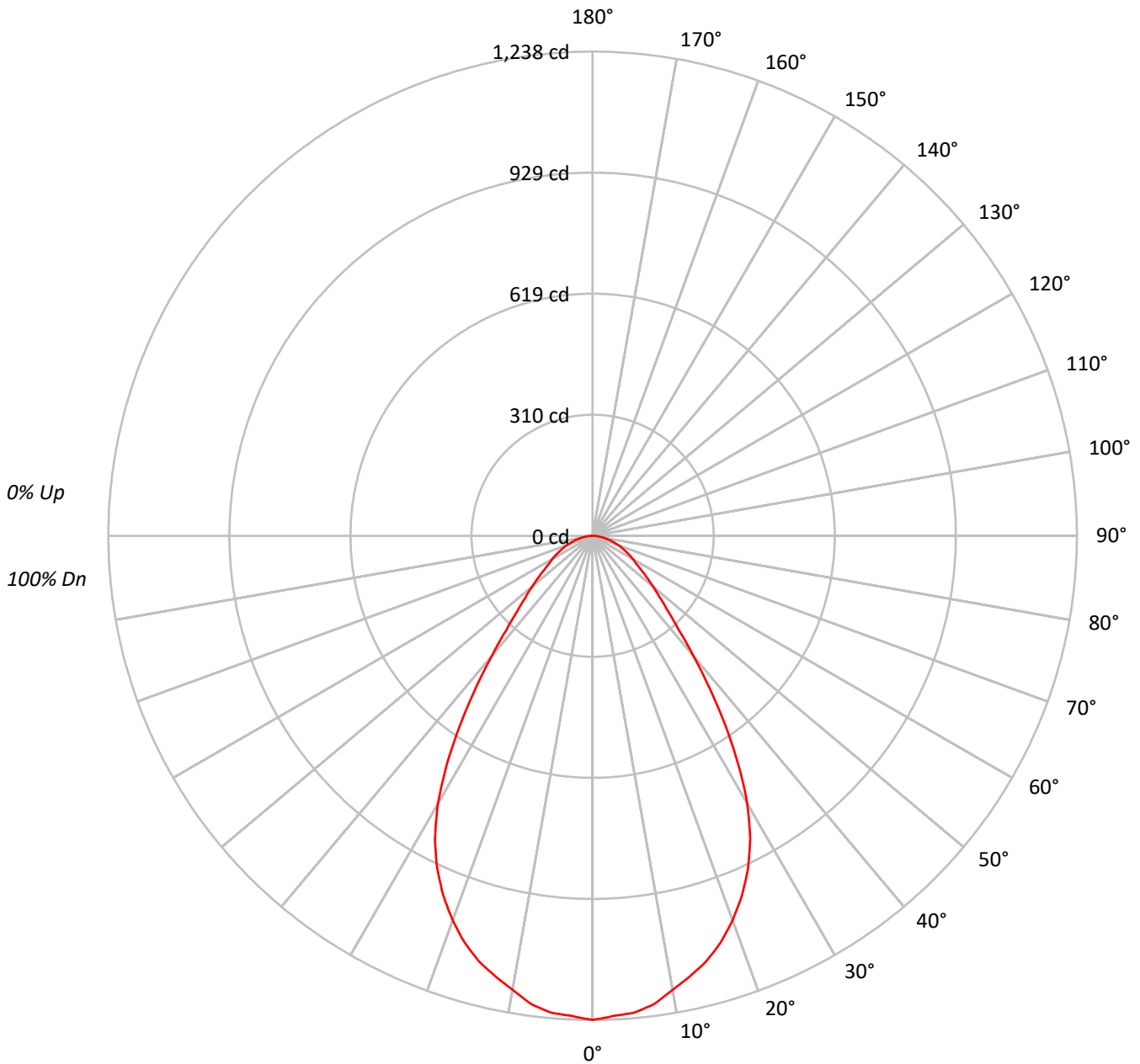
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	152690
5°	151539
10°	147618
15°	143723
20°	137287
25°	127904
30°	112631
35°	88825
40°	64487
45°	47360
50°	38532
55°	32321
60°	29307
65°	26910
70°	25028
75°	22875
80°	20599
85°	17832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	6.6
10°-20°	315.7	18.2
20°-30°	427.9	24.6
30°-40°	367.2	21.1
40°-50°	216.8	12.5
50°-60°	137.4	7.9
60°-70°	92.3	5.3
70°-80°	50.9	2.9
80°-90°	14.3	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°	859.0	49.4
0°-40°	1226.2	70.6
0°-60°	1580.4	90.9
0°-90°	1737.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1737.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1238	
5°	1224	115
15°	1126	316
25°	940	428
35°	590	367
45°	272	217
55°	150	137
65°	92	92
75°	48	51
85°	13	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1237.9
2.5°	1229.0
5°	1223.9
7.5°	1207.6
10°	1178.6
12.5°	1153.3
15°	1125.5
17.5°	1090.0
20°	1045.9
22.5°	996.7
25°	939.8
27.5°	872.8
30°	790.8
32.5°	693.4
35°	589.9
37.5°	490.1
40°	400.5
42.5°	325.9
45°	271.5
47.5°	232.5
50°	200.8
52.5°	174.3
55°	150.3
57.5°	131.4
60°	118.8
62.5°	106.1
65°	92.2
67.5°	80.8
70°	69.4
72.5°	58.1
75°	48.0
77.5°	37.9
80°	29.0
82.5°	20.2
85°	12.6
87.5°	5.1
90°	0.0



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— 0°-180°







(END OF REPORT)