

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: P580192

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580192
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-HM40525927-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1823.8 lumens
Efficiency: N/A
Efficacy: 68.1 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

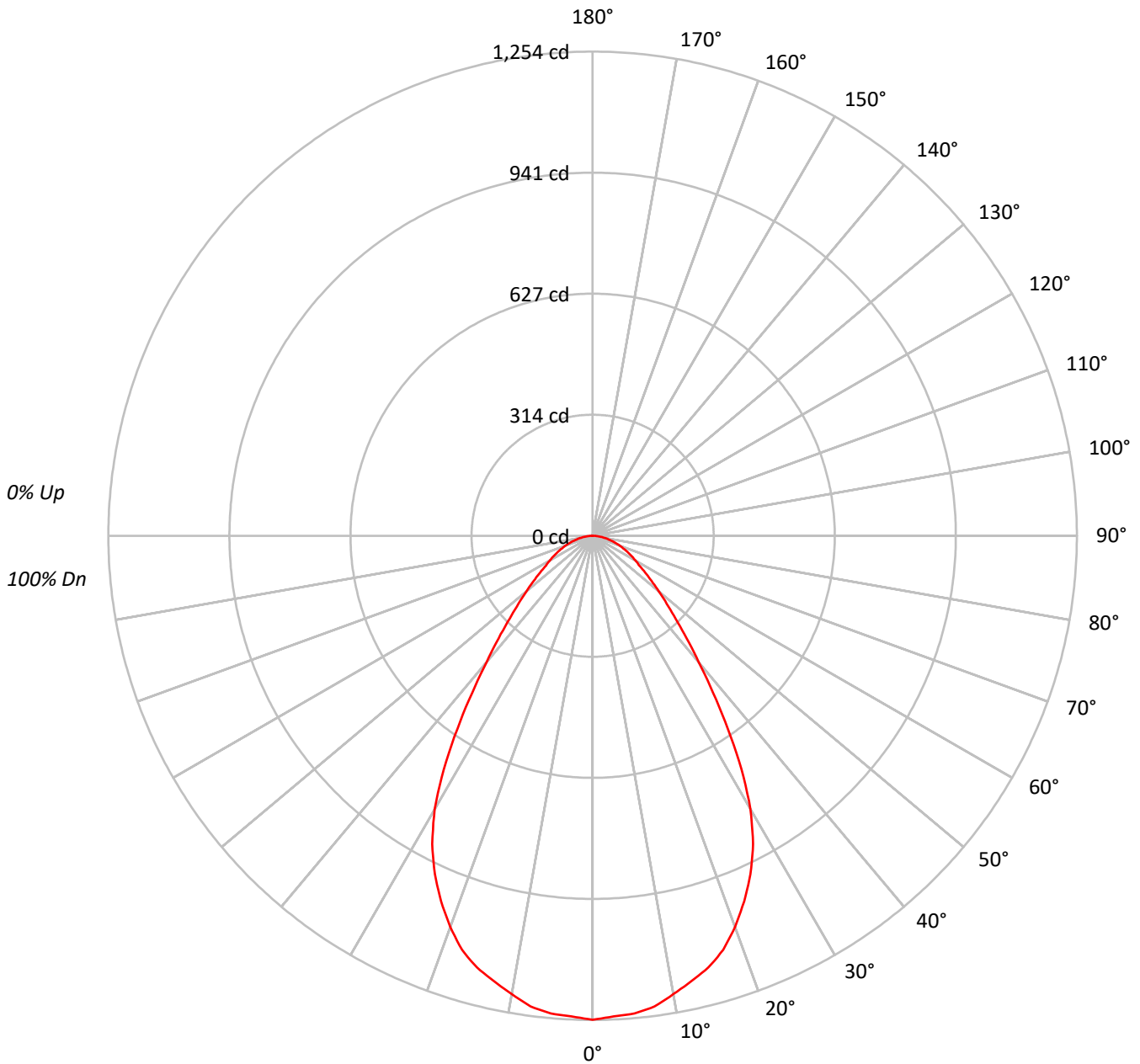
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	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	46	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	154626
5°	153805
10°	150987
15°	147822
20°	141500
25°	131578
30°	116449
35°	91897
40°	68770
45°	52889
50°	42926
55°	35590
60°	31502
65°	29128
70°	26868
75°	24686
80°	22446
85°	17832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	6.4
10°-20°	324.6	17.8
20°-30°	440.8	24.2
30°-40°	381.8	20.9
40°-50°	239.7	13.1
50°-60°	150.8	8.3
60°-70°	99.0	5.4
70°-80°	54.6	3.0
80°-90°	15.0	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°	882.9	48.4
0°-40°	1264.7	69.3
0°-60°	1655.2	90.8
0°-90°	1823.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1823.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1254	
5°	1242	117
15°	1158	325
25°	967	441
35°	610	382
45°	303	240
55°	166	151
65°	100	99
75°	52	55
85°	13	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1253.6
2.5°	1246.0
5°	1242.2
7.5°	1229.6
10°	1205.5
12.5°	1181.6
15°	1157.6
17.5°	1124.7
20°	1078.0
22.5°	1024.9
25°	966.8
27.5°	899.7
30°	817.6
32.5°	717.8
35°	610.3
37.5°	511.8
40°	427.1
42.5°	360.2
45°	303.2
47.5°	260.3
50°	223.7
52.5°	192.0
55°	165.5
57.5°	142.8
60°	127.7
62.5°	113.7
65°	99.8
67.5°	85.9
70°	74.5
72.5°	61.9
75°	51.8
77.5°	40.4
80°	31.6
82.5°	21.5
85°	12.6
87.5°	5.1
90°	0.0



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— 0°-180°







(END OF REPORT)