

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: P592711

Luminaire Tested: **HC425D010-HM40525950-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592711
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-HM40525950-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2475.5 lumens
Efficiency: N/A
Efficacy: 92.4 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

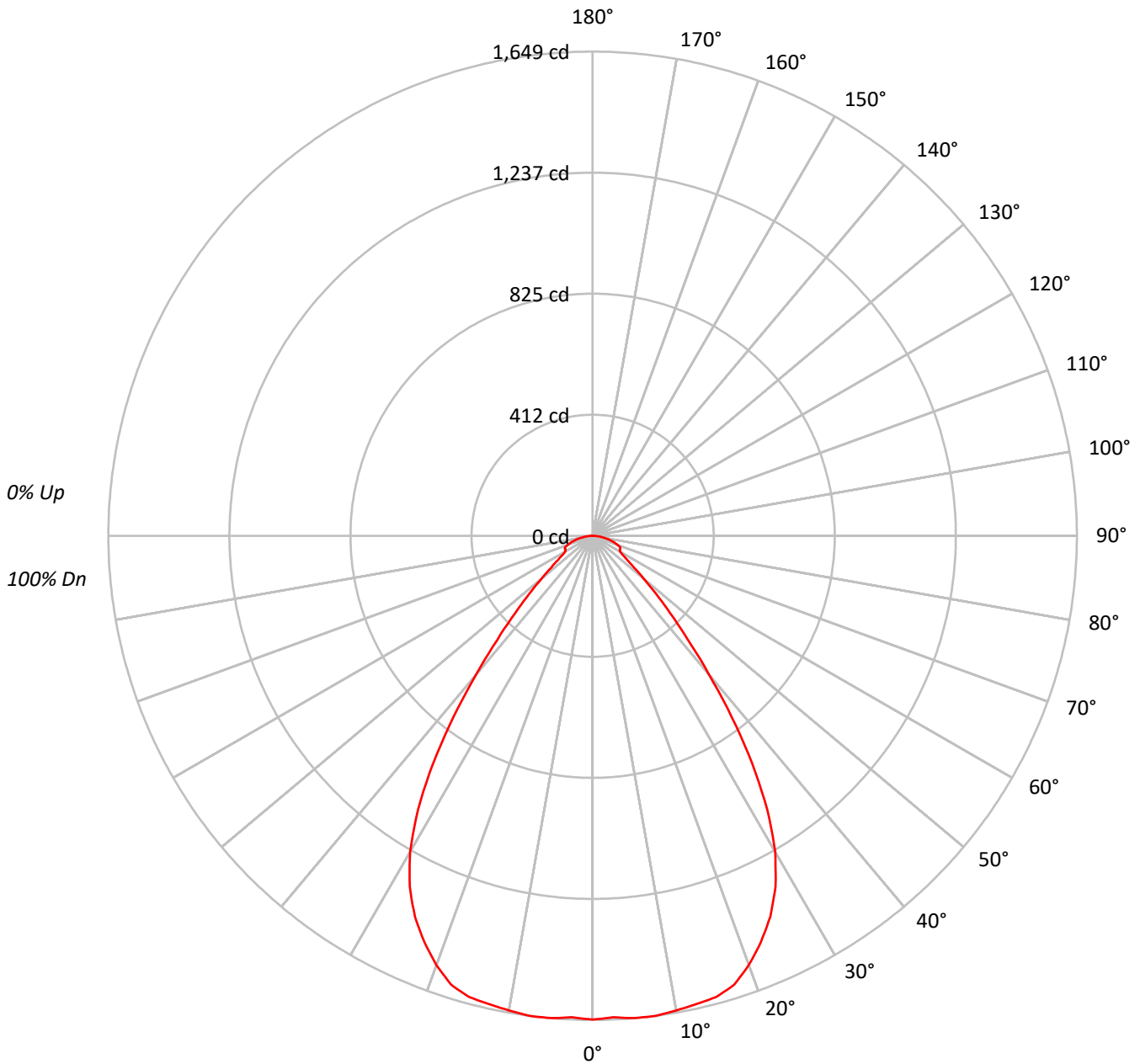
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	203237
5°	204186
10°	205595
15°	207661
20°	204191
25°	194795
30°	176980
35°	142762
40°	99057
45°	65030
50°	43559
55°	31010
60°	26495
65°	30441
70°	32638
75°	31406
80°	28342
85°	26040



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.2	6.3
10°-20°	456.8	18.5
20°-30°	652.7	26.4
30°-40°	583.1	23.6
40°-50°	299.1	12.1
50°-60°	135.9	5.5
60°-70°	101.4	4.1
70°-80°	69.0	2.8
80°-90°	20.4	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°	1266.7	51.2
0°-40°	1849.7	74.7
0°-60°	2284.7	92.3
0°-90°	2475.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2475.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1648	
5°	1649	157
15°	1626	457
25°	1431	653
35°	948	583
45°	373	299
55°	144	136
65°	104	101
75°	66	69
85°	18	20
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1647.7
2.5°	1641.5
5°	1649.1
7.5°	1649.1
10°	1641.5
12.5°	1633.9
15°	1626.2
17.5°	1603.2
20°	1555.6
22.5°	1497.3
25°	1431.3
27.5°	1348.5
30°	1242.6
32.5°	1107.7
35°	948.1
37.5°	777.8
40°	615.2
42.5°	480.2
45°	372.8
47.5°	291.5
50°	227.0
52.5°	177.9
55°	144.2
57.5°	121.1
60°	107.4
62.5°	104.3
65°	104.3
67.5°	101.3
70°	90.5
72.5°	78.2
75°	65.9
77.5°	52.2
80°	39.9
82.5°	29.1
85°	18.4
87.5°	7.7
90°	0.0



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— 0°-180°







(END OF REPORT)