

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: P580185

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC425D010-HM40525927-41MDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1856.6 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

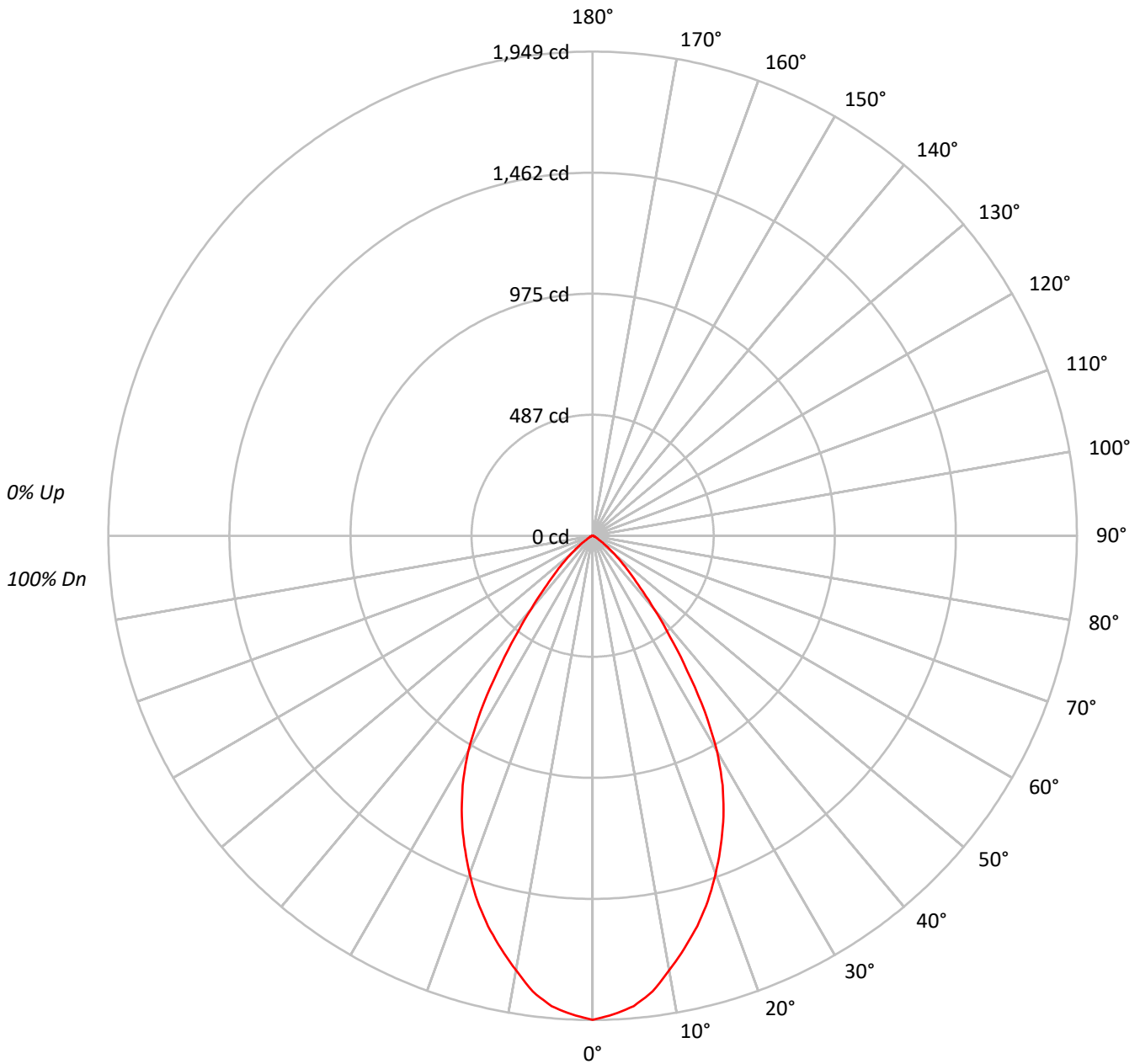
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93				93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86				86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79				79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73				73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67				67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62				62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58				58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54				54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51				51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	47				47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	240364
5°	235339
10°	222404
15°	207724
20°	189988
25°	169645
30°	142470
35°	100209
40°	61830
45°	36998
50°	21818
55°	10860
60°	5600
65°	3677
70°	2272
75°	1811
80°	852
85°	1698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.5	9.6
10°-20°	454.7	24.5
20°-30°	567.1	30.5
30°-40°	417.7	22.5
40°-50°	171.8	9.3
50°-60°	50.2	2.7
60°-70°	12.9	0.7
70°-80°	4.0	0.2
80°-90°	0.8	0.0
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°	1199.3	64.6
0°-40°	1616.9	87.1
0°-60°	1838.9	99.0
0°-90°	1856.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1856.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1949	
5°	1901	177
15°	1627	455
25°	1246	567
35°	666	418
45°	212	172
55°	50	50
65°	13	13
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1948.7
2.5°	1928.4
5°	1900.7
7.5°	1850.2
10°	1775.7
12.5°	1702.4
15°	1626.7
17.5°	1542.0
20°	1447.4
22.5°	1348.8
25°	1246.5
27.5°	1132.8
30°	1000.3
32.5°	839.9
35°	665.5
37.5°	511.4
40°	384.0
42.5°	284.2
45°	212.1
47.5°	156.6
50°	113.7
52.5°	78.4
55°	50.5
57.5°	30.3
60°	22.7
62.5°	16.4
65°	12.6
67.5°	8.8
70°	6.3
72.5°	5.1
75°	3.8
77.5°	2.5
80°	1.2
82.5°	1.2
85°	1.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)