

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: P579974

Luminaire Tested: **HC420D010-HM40525827-41MDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579974
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: HC420D010-HM40525827-41MDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1777.9 lumens
Efficiency: N/A
Efficacy: 88.9 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

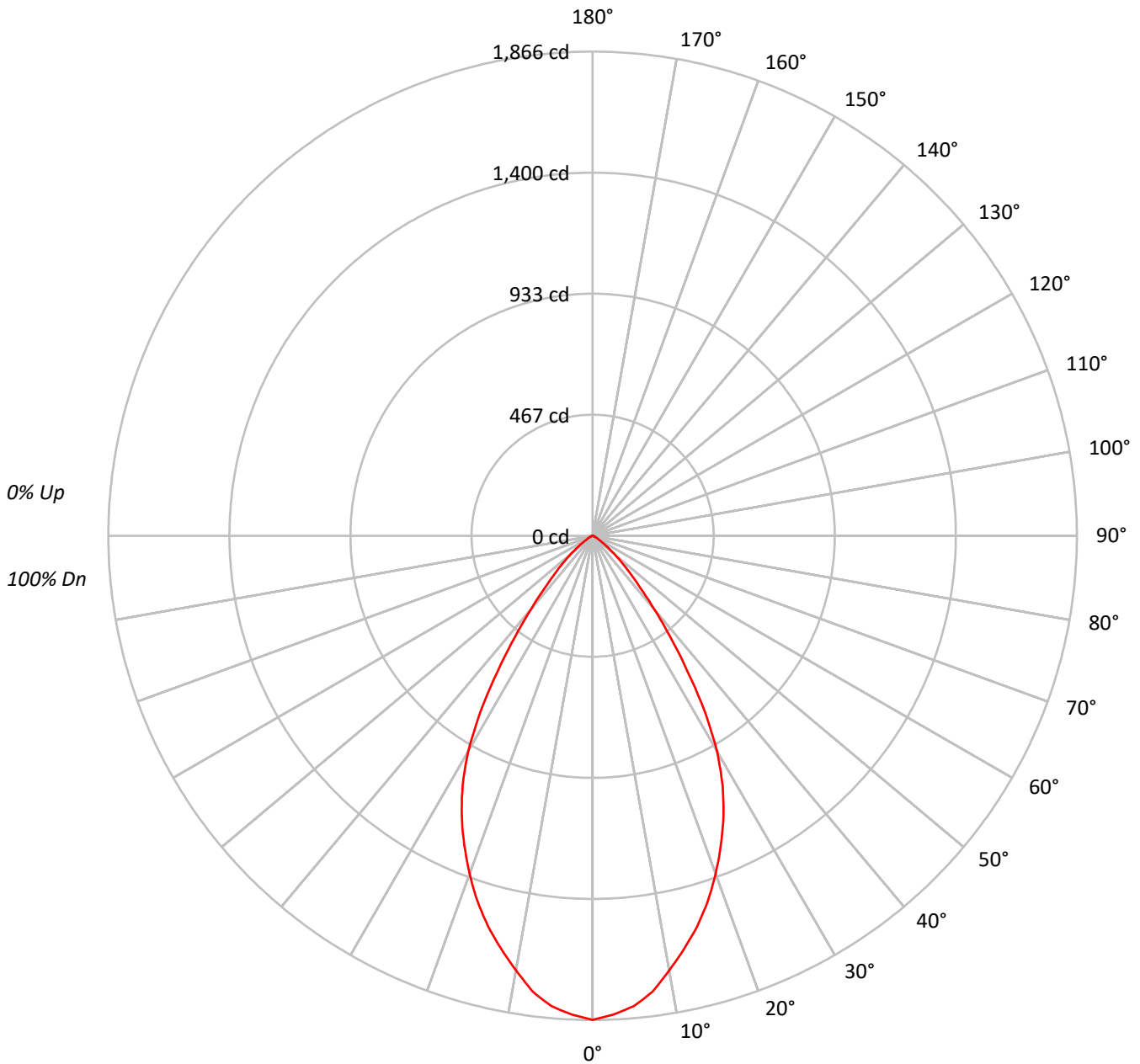
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86	86	86	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	51	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	47	47	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	230151
5°	225334
10°	212947
15°	198888
20°	181902
25°	162445
30°	136403
35°	95963
40°	59190
45°	35428
50°	20897
55°	10408
60°	5378
65°	3502
70°	2200
75°	1763
80°	923
85°	1840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.0	9.6
10°-20°	435.4	24.5
20°-30°	543.0	30.5
30°-40°	400.0	22.5
40°-50°	164.5	9.3
50°-60°	48.1	2.7
60°-70°	12.3	0.7
70°-80°	3.8	0.2
80°-90°	0.9	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°	1148.3	64.6
0°-40°	1548.3	87.1
0°-60°	1760.8	99.0
0°-90°	1777.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1777.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1866	
5°	1820	170
15°	1558	435
25°	1194	543
35°	637	400
45°	203	164
55°	48	48
65°	12	12
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1865.9
2.5°	1846.6
5°	1819.9
7.5°	1771.7
10°	1700.2
12.5°	1630.1
15°	1557.5
17.5°	1476.5
20°	1385.8
22.5°	1291.5
25°	1193.6
27.5°	1084.7
30°	957.7
32.5°	804.2
35°	637.3
37.5°	489.8
40°	367.6
42.5°	272.1
45°	203.1
47.5°	149.9
50°	108.9
52.5°	75.0
55°	48.4
57.5°	29.0
60°	21.8
62.5°	15.7
65°	12.0
67.5°	8.5
70°	6.1
72.5°	4.8
75°	3.7
77.5°	2.4
80°	1.3
82.5°	1.3
85°	1.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)