

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: P580000

Luminaire Tested: **HC420D010-HM40525830-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580000
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: HC420D010-HM40525830-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1802.5 lumens
Efficiency: N/A
Efficacy: 90.1 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

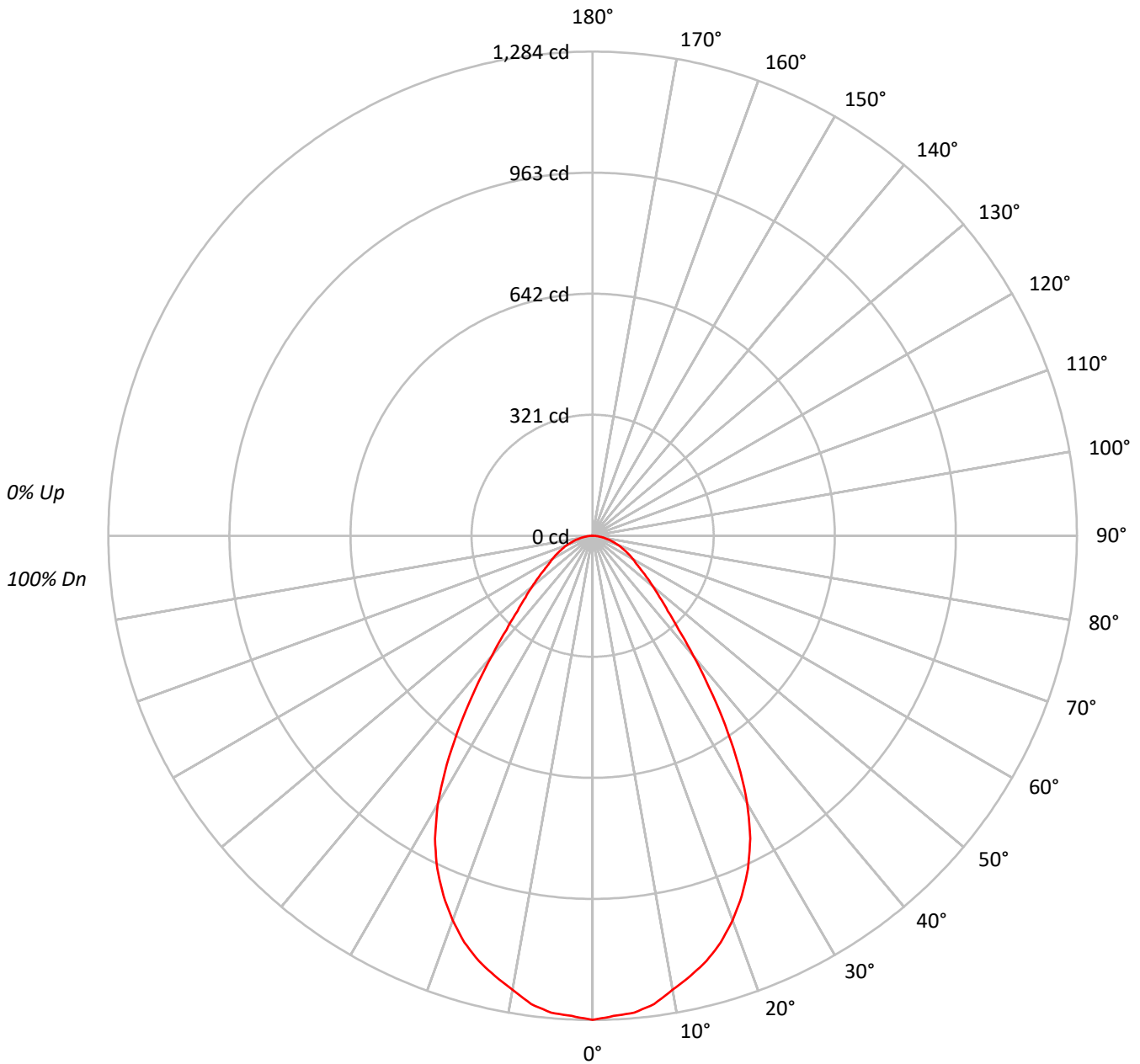
Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	158351
5°	157173
10°	153079
15°	149048
20°	142380
25°	132640
30°	116805
35°	92123
40°	66870
45°	49139
50°	39971
55°	33526
60°	30392
65°	27931
70°	25966
75°	23733
80°	21452
85°	18540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	6.6
10°-20°	327.4	18.2
20°-30°	443.8	24.6
30°-40°	380.8	21.1
40°-50°	224.9	12.5
50°-60°	142.5	7.9
60°-70°	95.7	5.3
70°-80°	52.8	2.9
80°-90°	14.8	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°	890.9	49.4
0°-40°	1271.7	70.6
0°-60°	1639.1	90.9
0°-90°	1802.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1802.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1284	
5°	1269	120
15°	1167	327
25°	975	444
35°	612	381
45°	282	225
55°	156	143
65°	96	96
75°	50	53
85°	13	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1283.8
2.5°	1274.7
5°	1269.4
7.5°	1252.4
10°	1222.2
12.5°	1196.1
15°	1167.2
17.5°	1130.6
20°	1084.7
22.5°	1033.6
25°	974.6
27.5°	905.2
30°	820.1
32.5°	719.2
35°	611.8
37.5°	508.2
40°	415.3
42.5°	338.0
45°	281.7
47.5°	241.1
50°	208.3
52.5°	180.8
55°	155.9
57.5°	136.3
60°	123.2
62.5°	110.0
65°	95.7
67.5°	83.8
70°	72.0
72.5°	60.2
75°	49.8
77.5°	39.3
80°	30.2
82.5°	21.0
85°	13.1
87.5°	5.3
90°	0.0



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— 0°-180°







(END OF REPORT)