

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: P579982

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579982
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-HM40525827-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1664.0 lumens
Efficiency: N/A
Efficacy: 83.2 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

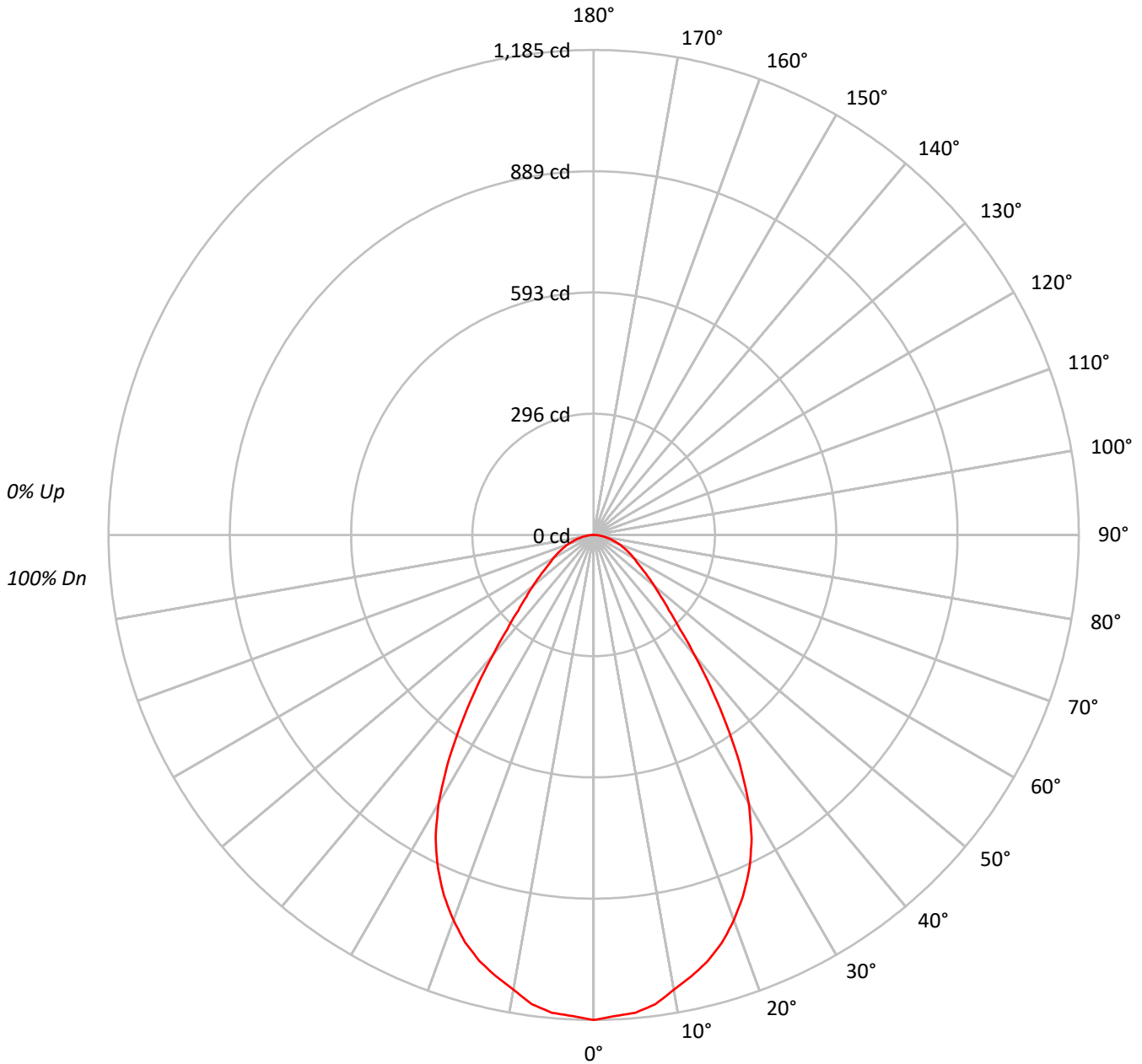
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	146202
5°	145113
10°	141330
15°	137606
20°	131445
25°	122460
30°	107832
35°	85046
40°	61734
45°	45354
50°	36920
55°	30945
60°	28049
65°	25771
70°	23982
75°	21922
80°	19818
85°	16983



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	6.6
10°-20°	302.3	18.2
20°-30°	409.7	24.6
30°-40°	351.6	21.1
40°-50°	207.6	12.5
50°-60°	131.6	7.9
60°-70°	88.4	5.3
70°-80°	48.8	2.9
80°-90°	13.6	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°	822.5	49.4
0°-40°	1174.1	70.6
0°-60°	1513.2	90.9
0°-90°	1664.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1664.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1185	
5°	1172	111
15°	1078	302
25°	900	410
35°	565	352
45°	260	208
55°	144	132
65°	88	88
75°	46	49
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1185.3
2.5°	1176.8
5°	1172.0
7.5°	1156.3
10°	1128.4
12.5°	1104.2
15°	1077.6
17.5°	1043.8
20°	1001.4
22.5°	954.3
25°	899.8
27.5°	835.7
30°	757.1
32.5°	664.0
35°	564.8
37.5°	469.2
40°	383.4
42.5°	312.1
45°	260.0
47.5°	222.5
50°	192.4
52.5°	166.9
55°	143.9
57.5°	125.8
60°	113.7
62.5°	101.6
65°	88.3
67.5°	77.4
70°	66.5
72.5°	55.6
75°	46.0
77.5°	36.2
80°	27.9
82.5°	19.4
85°	12.0
87.5°	4.8
90°	0.0



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— 0°-180°







(END OF REPORT)