

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: P581489

Luminaire Tested: **HC407D010-HM40525927-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581489
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: HC407D010-HM40525927-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 621.6 lumens
Efficiency: N/A
Efficacy: 77.7 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

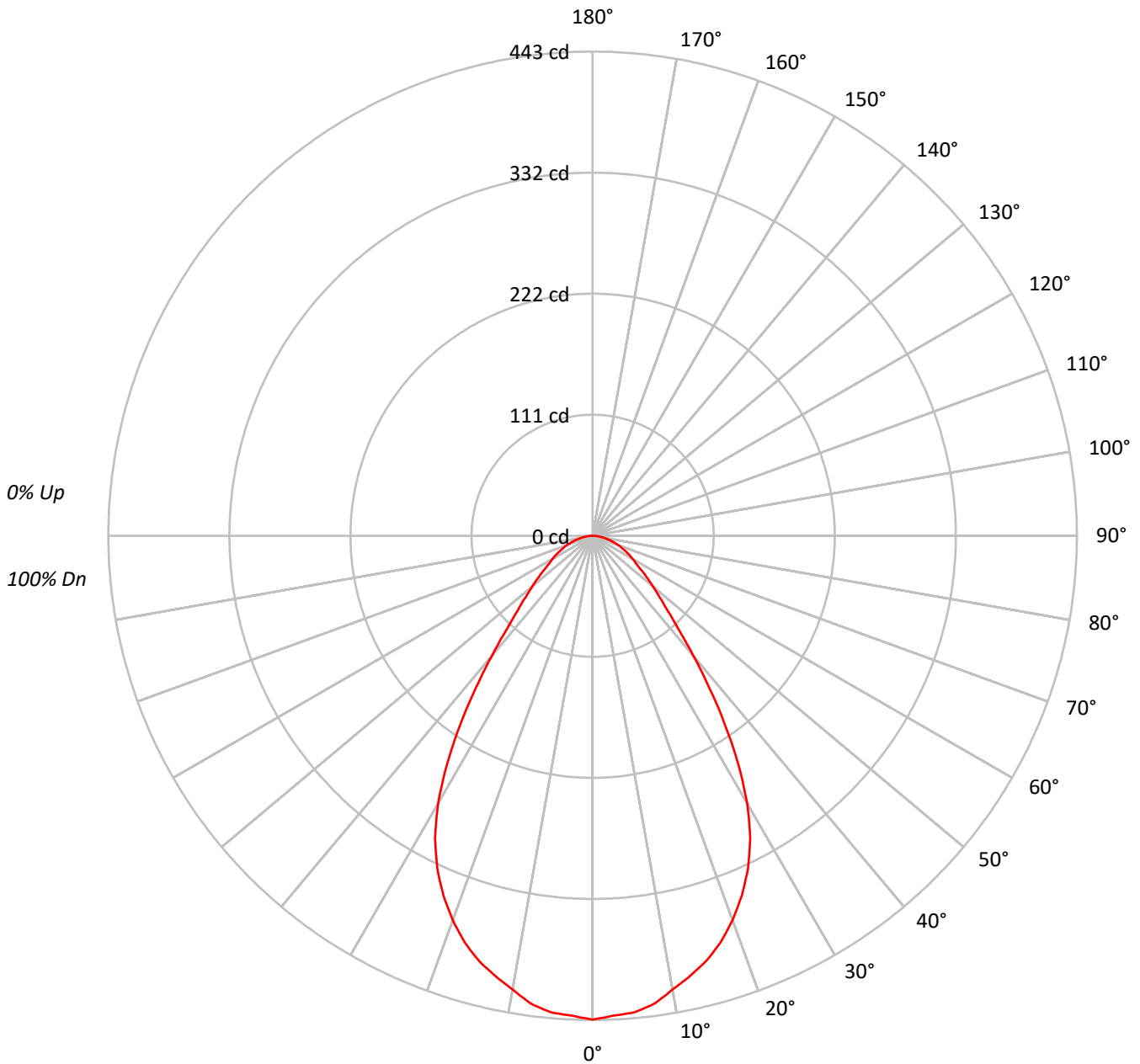
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
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°	54605
5°	54195
10°	52792
15°	51398
20°	49105
25°	45742
30°	40278
35°	31772
40°	23058
45°	16938
50°	13778
55°	11548
60°	10460
65°	9631
70°	8944
75°	8197
80°	7387
85°	6510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	6.6
10°-20°	112.9	18.2
20°-30°	153.0	24.6
30°-40°	131.3	21.1
40°-50°	77.5	12.5
50°-60°	49.1	7.9
60°-70°	33.0	5.3
70°-80°	18.2	2.9
80°-90°	5.1	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°	307.2	49.4
0°-40°	438.6	70.6
0°-60°	565.2	90.9
0°-90°	621.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	621.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	443	
5°	438	41
15°	402	113
25°	336	153
35°	211	131
45°	97	78
55°	54	49
65°	33	33
75°	17	18
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	442.7
2.5°	439.5
5°	437.7
7.5°	431.9
10°	421.5
12.5°	412.4
15°	402.5
17.5°	389.9
20°	374.1
22.5°	356.4
25°	336.1
27.5°	312.2
30°	282.8
32.5°	248.0
35°	211.0
37.5°	175.3
40°	143.2
42.5°	116.5
45°	97.1
47.5°	83.1
50°	71.8
52.5°	62.4
55°	53.7
57.5°	47.0
60°	42.4
62.5°	37.9
65°	33.0
67.5°	28.9
70°	24.8
72.5°	20.8
75°	17.2
77.5°	13.5
80°	10.4
82.5°	7.3
85°	4.6
87.5°	1.8
90°	0.0



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— 0°-180°







(END OF REPORT)