

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: P581002

Luminaire Tested: **HC405D010-HM40525830-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC405D010-HM40525830-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 624.3 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

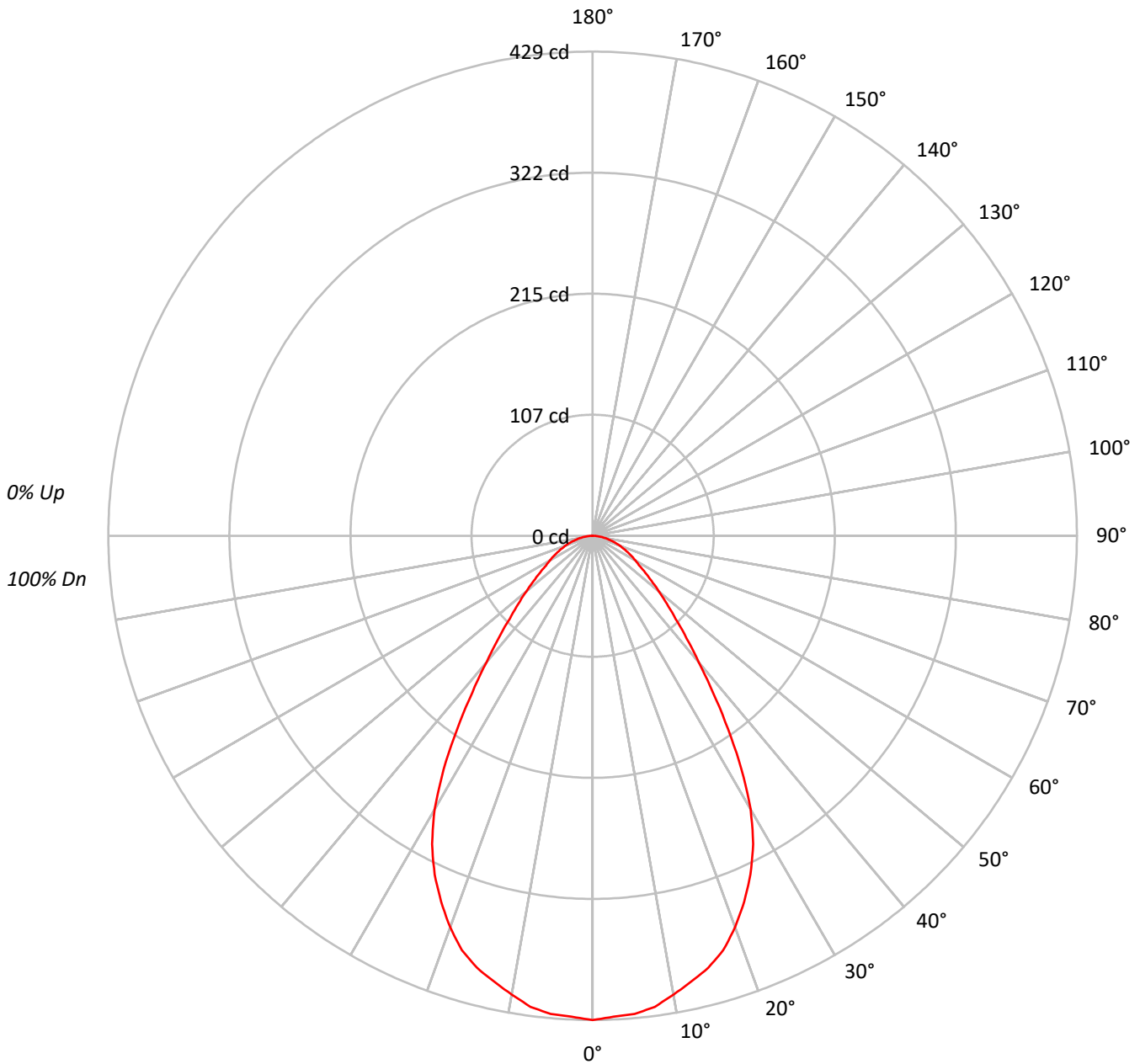
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	79	79	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70	70	70	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63	63	63	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57	57	57	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52	52	52	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47	47	47	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44	44	44	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40	40	40	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	52928
5°	52659
10°	51690
15°	50593
20°	48436
25°	45048
30°	39865
35°	31471
40°	23541
45°	18124
50°	14699
55°	12172
60°	10780
65°	9982
70°	9196
75°	8435
80°	7671
85°	6085



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.2	6.4
10°-20°	111.1	17.8
20°-30°	150.9	24.2
30°-40°	130.7	20.9
40°-50°	82.1	13.1
50°-60°	51.6	8.3
60°-70°	33.9	5.4
70°-80°	18.7	3.0
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°	302.2	48.4
0°-40°	432.9	69.3
0°-60°	566.6	90.8
0°-90°	624.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	624.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	429	
5°	425	40
15°	396	111
25°	331	151
35°	209	131
45°	104	82
55°	57	52
65°	34	34
75°	18	19
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	429.1
2.5°	426.5
5°	425.3
7.5°	421.0
10°	412.7
12.5°	404.5
15°	396.2
17.5°	385.0
20°	369.0
22.5°	350.8
25°	331.0
27.5°	308.0
30°	279.9
32.5°	245.7
35°	209.0
37.5°	175.2
40°	146.2
42.5°	123.3
45°	103.9
47.5°	89.1
50°	76.6
52.5°	65.7
55°	56.6
57.5°	48.9
60°	43.7
62.5°	38.9
65°	34.2
67.5°	29.4
70°	25.5
72.5°	21.2
75°	17.7
77.5°	13.8
80°	10.8
82.5°	7.4
85°	4.3
87.5°	1.7
90°	0.0



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— 0°-180°







(END OF REPORT)