

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: P579927

Luminaire Tested: **HC415D010-HM40525930-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579927
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: HC415D010-HM40525930-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1222.1 lumens
Efficiency: N/A
Efficacy: 87.3 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

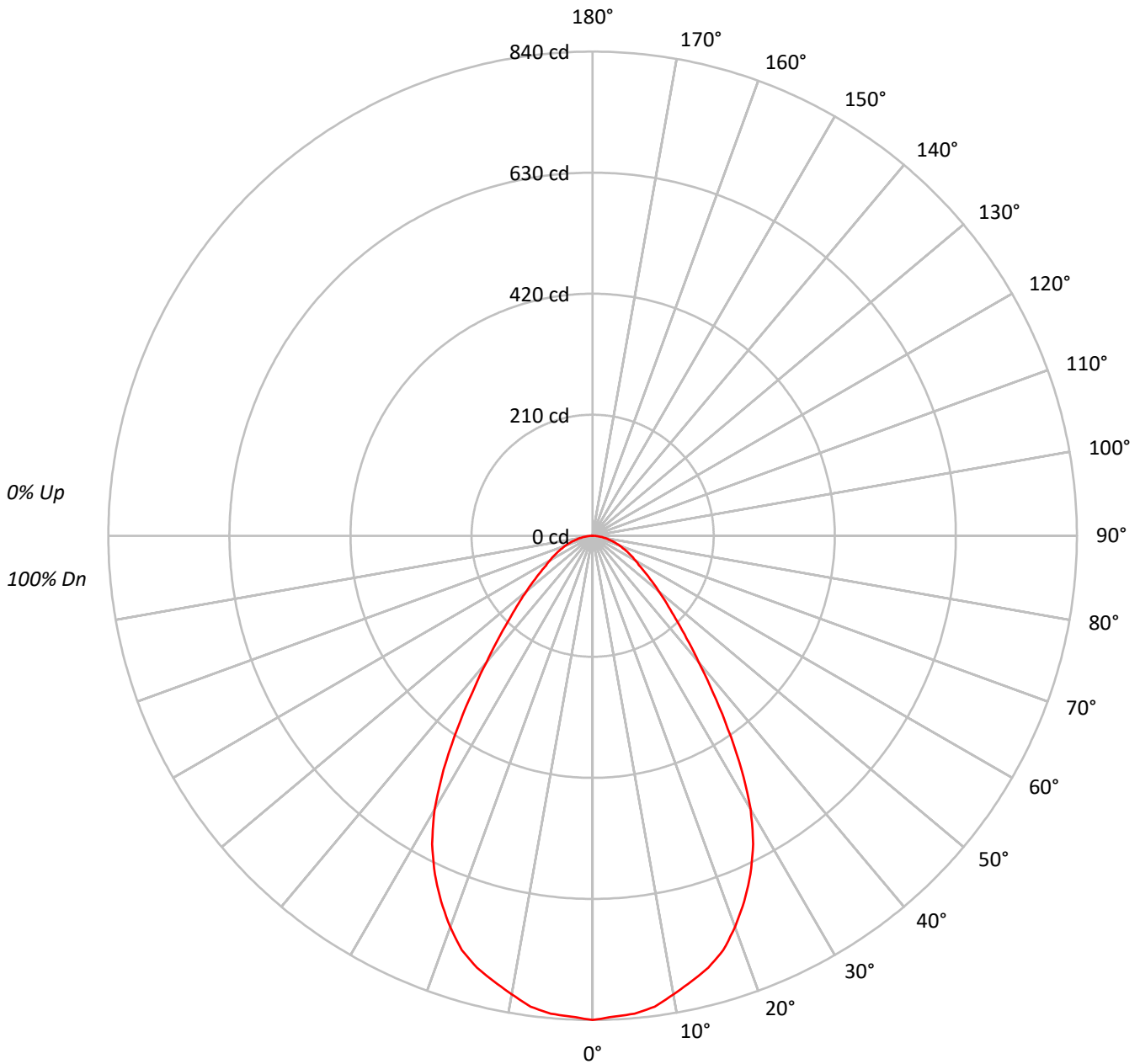
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	103610
5°	103065
10°	101176
15°	99054
20°	94810
25°	88177
30°	78036
35°	61586
40°	46083
45°	35446
50°	28765
55°	23870
60°	21092
65°	19525
70°	17996
75°	16537
80°	14988
85°	11888



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	6.4
10°-20°	217.5	17.8
20°-30°	295.4	24.2
30°-40°	255.8	20.9
40°-50°	160.6	13.1
50°-60°	101.1	8.3
60°-70°	66.4	5.4
70°-80°	36.6	3.0
80°-90°	10.0	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°	591.6	48.4
0°-40°	847.5	69.3
0°-60°	1109.2	90.8
0°-90°	1222.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1222.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	840	
5°	832	79
15°	776	218
25°	648	295
35°	409	256
45°	203	161
55°	111	101
65°	67	66
75°	35	37
85°	8	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	840.0
2.5°	835.0
5°	832.4
7.5°	824.0
10°	807.8
12.5°	791.8
15°	775.7
17.5°	753.7
20°	722.3
22.5°	686.7
25°	647.9
27.5°	603.0
30°	547.9
32.5°	481.0
35°	409.0
37.5°	342.9
40°	286.2
42.5°	241.4
45°	203.2
47.5°	174.4
50°	149.9
52.5°	128.7
55°	111.0
57.5°	95.7
60°	85.5
62.5°	76.2
65°	66.9
67.5°	57.5
70°	49.9
72.5°	41.5
75°	34.7
77.5°	27.1
80°	21.1
82.5°	14.4
85°	8.4
87.5°	3.4
90°	0.0



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— 0°-180°







(END OF REPORT)