

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: P579765

Luminaire Tested: **HC410D010-HM40525927-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579765
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: HC410D010-HM40525927-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 808.0 lumens
Efficiency: N/A
Efficacy: 81.6 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

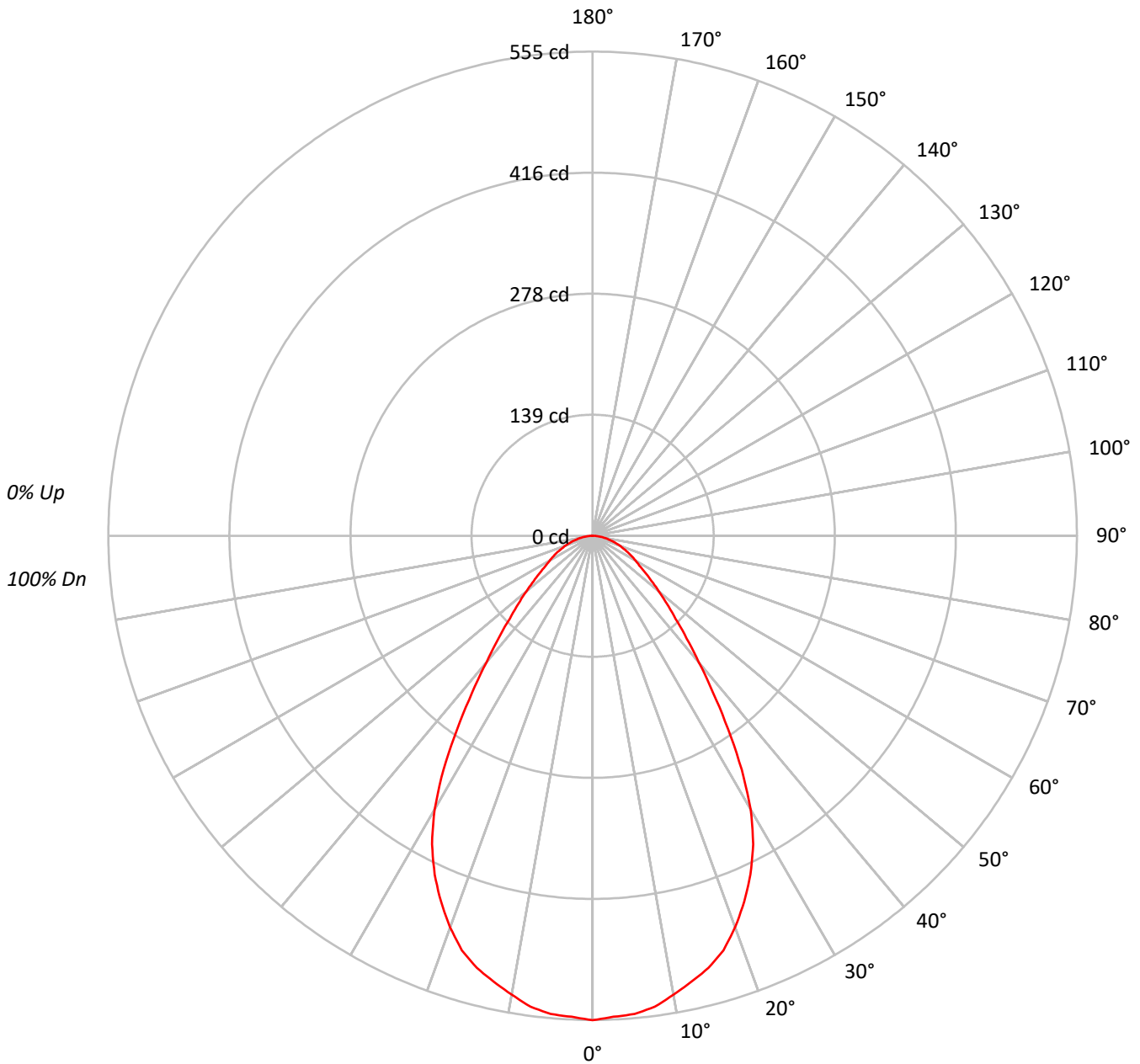
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	68494
5°	68136
10°	66895
15°	65483
20°	62677
25°	58277
30°	51587
35°	40716
40°	30464
45°	23444
50°	19016
55°	15763
60°	13963
65°	12929
70°	11901
75°	10961
80°	9944
85°	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.0	6.4
10°-20°	143.8	17.8
20°-30°	195.3	24.2
30°-40°	169.1	20.9
40°-50°	106.2	13.1
50°-60°	66.8	8.3
60°-70°	43.9	5.4
70°-80°	24.2	3.0
80°-90°	6.7	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°	391.1	48.4
0°-40°	560.2	69.3
0°-60°	733.2	90.7
0°-90°	808.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	808.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	555	
5°	550	52
15°	513	144
25°	428	195
35°	270	169
45°	134	106
55°	73	67
65°	44	44
75°	23	24
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	555.3
2.5°	551.9
5°	550.3
7.5°	544.6
10°	534.1
12.5°	523.5
15°	512.8
17.5°	498.2
20°	477.5
22.5°	454.1
25°	428.2
27.5°	398.6
30°	362.2
32.5°	318.0
35°	270.4
37.5°	226.7
40°	189.2
42.5°	159.5
45°	134.4
47.5°	115.3
50°	99.1
52.5°	85.1
55°	73.3
57.5°	63.3
60°	56.6
62.5°	50.4
65°	44.3
67.5°	38.1
70°	33.0
72.5°	27.4
75°	23.0
77.5°	17.9
80°	14.0
82.5°	9.6
85°	5.6
87.5°	2.3
90°	0.0



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— 0°-180°







(END OF REPORT)