

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: P579794

Luminaire Tested: **HC410D010-HM40525935-41MDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC410D010-HM40525935-41MDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 964.0 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

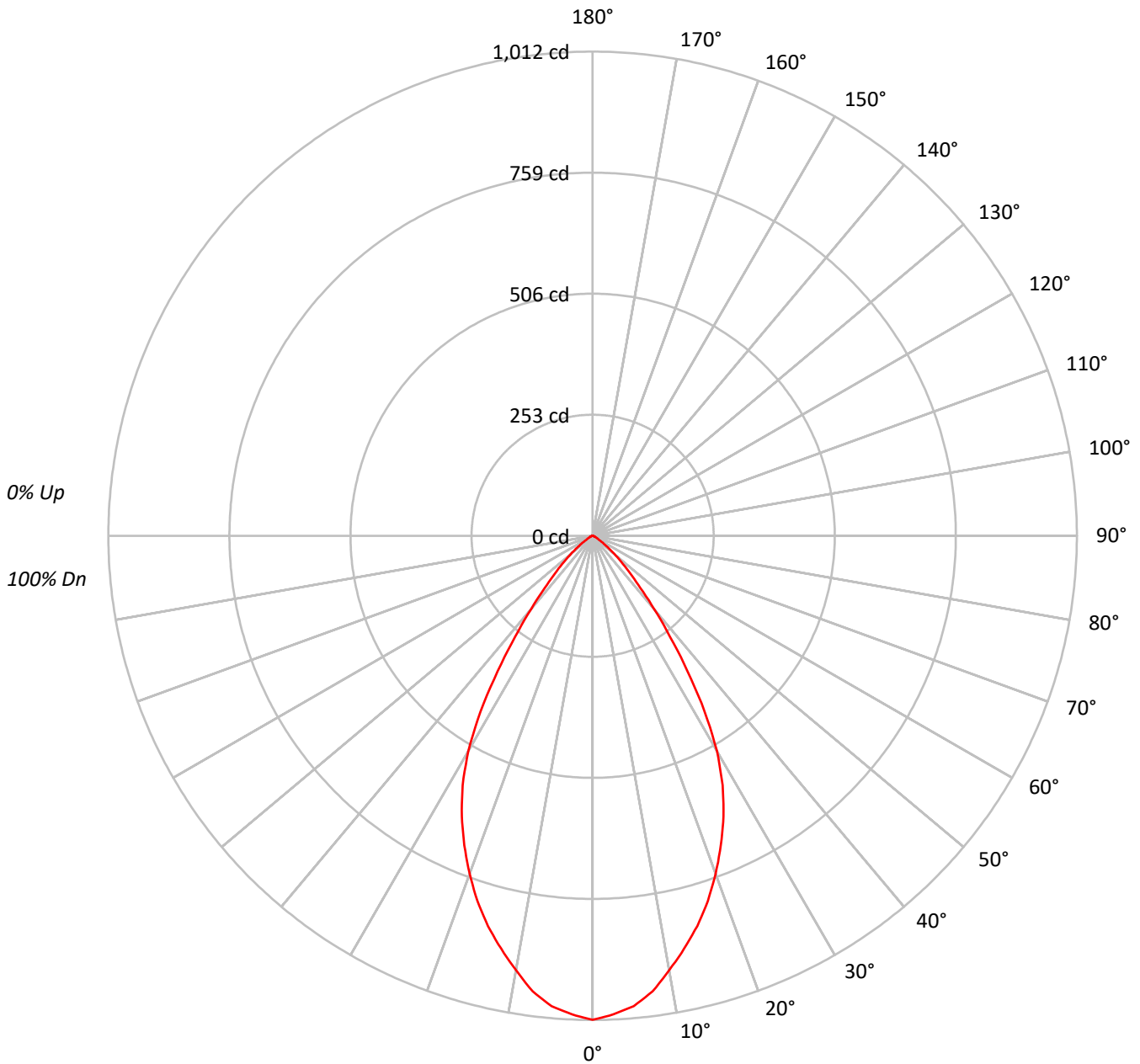
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86			86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79			79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73			73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67			67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62			62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58			58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54			54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51			51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	47			47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	124789
5°	122182
10°	115467
15°	107840
20°	98630
25°	88082
30°	73962
35°	52024
40°	32107
45°	19223
50°	11341
55°	5634
60°	2911
65°	1926
70°	1190
75°	905
80°	497
85°	991



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.2	9.6
10°-20°	236.1	24.5
20°-30°	294.4	30.5
30°-40°	216.8	22.5
40°-50°	89.2	9.3
50°-60°	26.0	2.7
60°-70°	6.7	0.7
70°-80°	2.1	0.2
80°-90°	0.5	0.0
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°	622.6	64.6
0°-40°	839.5	87.1
0°-60°	954.7	99.0
0°-90°	964.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	964.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1012	
5°	987	92
15°	844	236
25°	647	294
35°	346	217
45°	110	89
55°	26	26
65°	7	7
75°	2	2
85°	1	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1011.7
2.5°	1001.2
5°	986.8
7.5°	960.6
10°	921.9
12.5°	883.9
15°	844.5
17.5°	800.6
20°	751.4
22.5°	700.2
25°	647.2
27.5°	588.1
30°	519.3
32.5°	436.0
35°	345.5
37.5°	265.5
40°	199.4
42.5°	147.5
45°	110.2
47.5°	81.3
50°	59.1
52.5°	40.6
55°	26.2
57.5°	15.7
60°	11.8
62.5°	8.5
65°	6.6
67.5°	4.6
70°	3.3
72.5°	2.6
75°	1.9
77.5°	1.4
80°	0.7
82.5°	0.7
85°	0.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)