

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: P579693

Luminaire Tested: **HC410D010-HM40525827-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579693
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-HM40525827-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 944.4 lumens
Efficiency: N/A
Efficacy: 95.4 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

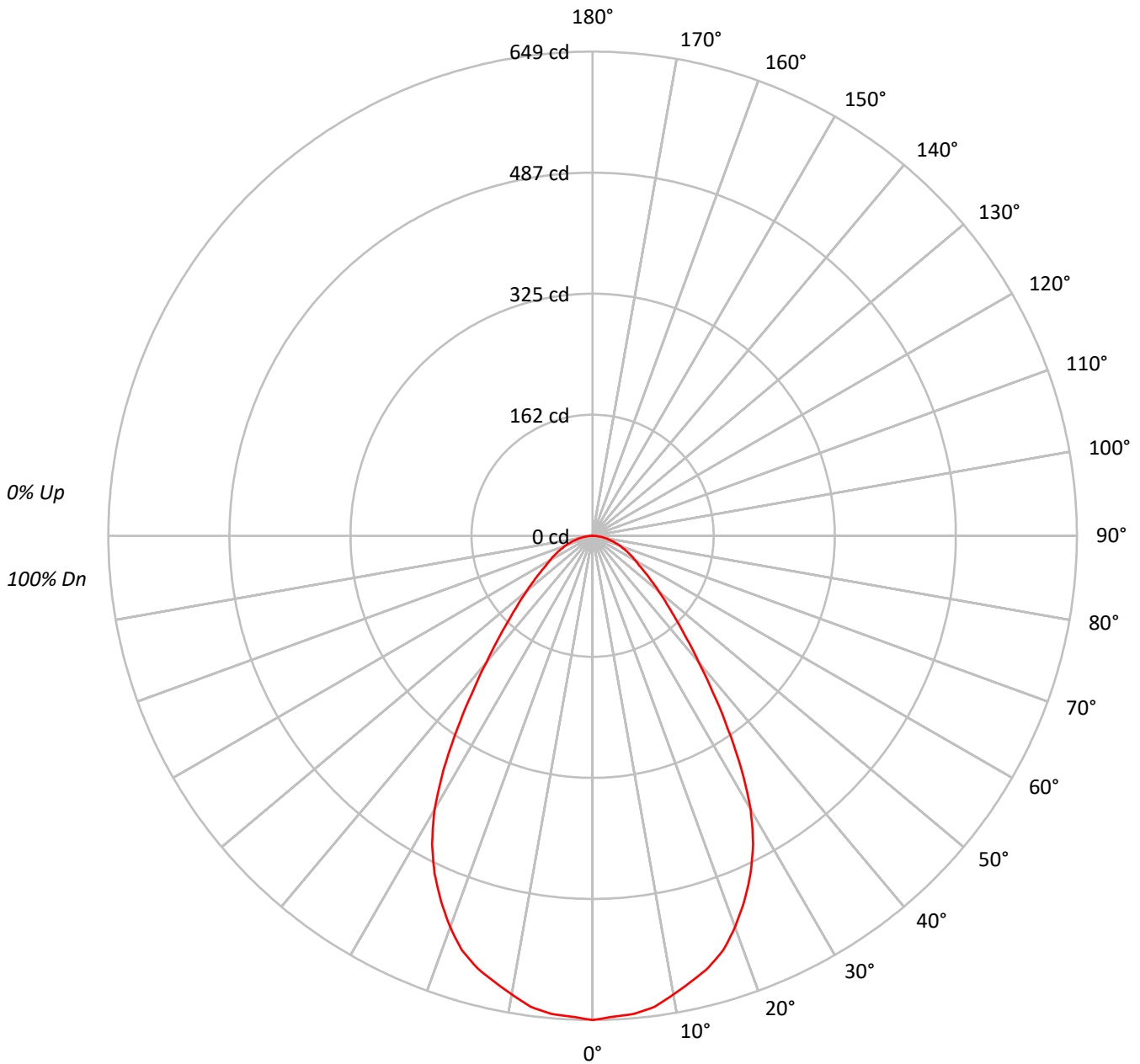
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	80064
5°	79639
10°	78180
15°	76541
20°	73270
25°	68130
30°	60289
35°	47582
40°	35601
45°	27387
50°	22221
55°	18429
60°	16306
65°	15089
70°	13921
75°	12820
80°	11649
85°	9199



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	6.4
10°-20°	168.1	17.8
20°-30°	228.2	24.2
30°-40°	197.7	20.9
40°-50°	124.1	13.1
50°-60°	78.1	8.3
60°-70°	51.3	5.4
70°-80°	28.3	3.0
80°-90°	7.8	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°	457.1	48.4
0°-40°	654.8	69.3
0°-60°	857.0	90.8
0°-90°	944.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	944.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	649	
5°	643	61
15°	599	168
25°	501	228
35°	316	198
45°	157	124
55°	86	78
65°	52	51
75°	27	28
85°	6	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	649.1
2.5°	645.1
5°	643.2
7.5°	636.7
10°	624.2
12.5°	611.8
15°	599.4
17.5°	582.3
20°	558.2
22.5°	530.6
25°	500.6
27.5°	465.9
30°	423.3
32.5°	371.7
35°	316.0
37.5°	265.0
40°	221.1
42.5°	186.5
45°	157.0
47.5°	134.7
50°	115.8
52.5°	99.5
55°	85.7
57.5°	74.0
60°	66.1
62.5°	58.8
65°	51.7
67.5°	44.5
70°	38.6
72.5°	32.1
75°	26.9
77.5°	20.9
80°	16.4
82.5°	11.2
85°	6.5
87.5°	2.6
90°	0.0



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— 0°-180°







(END OF REPORT)