

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: P579793

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC410D010-HM40525935-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1058.4 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

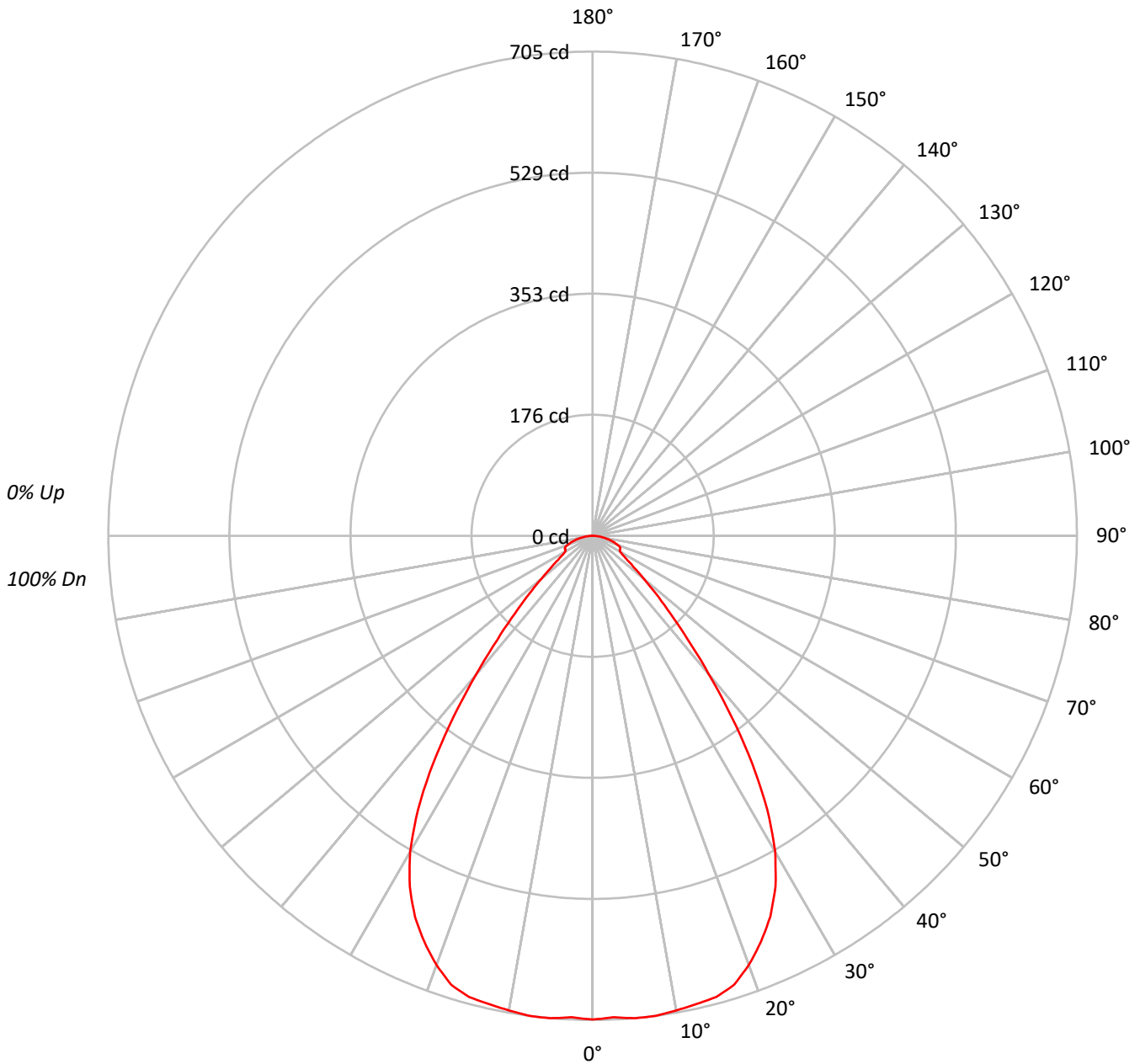
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	86885
5°	87303
10°	87899
15°	88775
20°	87289
25°	83278
30°	75657
35°	61044
40°	42347
45°	27788
50°	18633
55°	13268
60°	11323
65°	13017
70°	13957
75°	13439
80°	12146
85°	11180



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	6.3
10°-20°	195.3	18.5
20°-30°	279.0	26.4
30°-40°	249.3	23.6
40°-50°	127.8	12.1
50°-60°	58.1	5.5
60°-70°	43.3	4.1
70°-80°	29.5	2.8
80°-90°	8.8	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°	541.5	51.2
0°-40°	790.8	74.7
0°-60°	976.8	92.3
0°-90°	1058.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1058.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	704	
5°	705	67
15°	695	195
25°	612	279
35°	405	249
45°	159	128
55°	62	58
65°	45	43
75°	28	30
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	704.4
2.5°	701.8
5°	705.1
7.5°	705.1
10°	701.8
12.5°	698.5
15°	695.2
17.5°	685.4
20°	665.0
22.5°	640.1
25°	611.9
27.5°	576.5
30°	531.2
32.5°	473.5
35°	405.4
37.5°	332.5
40°	263.0
42.5°	205.3
45°	159.3
47.5°	124.6
50°	97.1
52.5°	76.1
55°	61.7
57.5°	51.8
60°	45.9
62.5°	44.6
65°	44.6
67.5°	43.2
70°	38.7
72.5°	33.5
75°	28.2
77.5°	22.3
80°	17.1
82.5°	12.5
85°	7.9
87.5°	3.3
90°	0.0



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— 0°-180°







(END OF REPORT)