

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: P581446

Luminaire Tested: **HC407D010-HM40525835-41NDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC407D010-HM40525835-41NDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 822.7 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

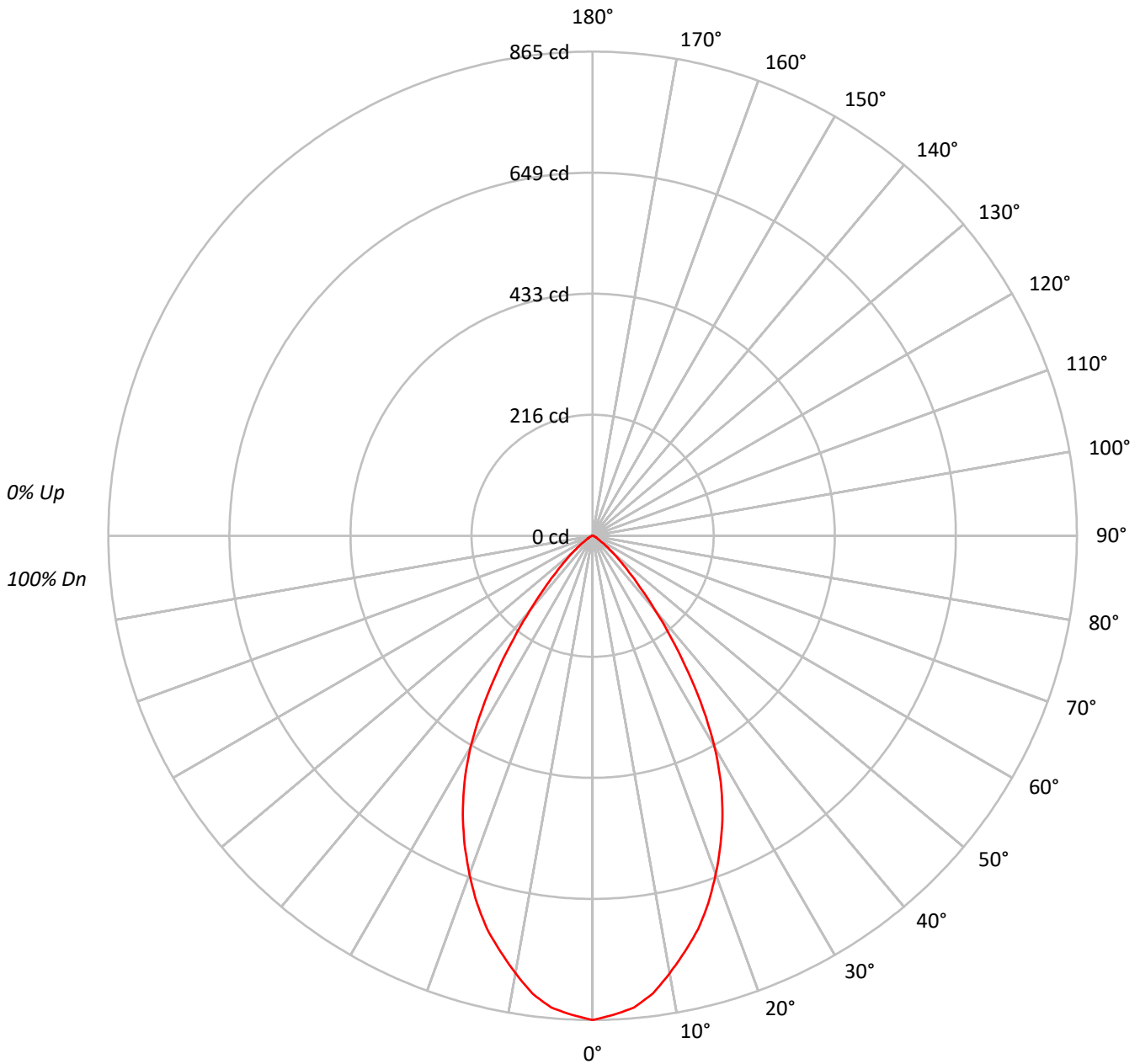
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93		
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86		
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79		
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	74	73		
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67		
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	63		
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58		
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54		
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51		
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	106706
5°	104761
10°	99372
15°	92912
20°	84388
25°	74676
30°	62113
35°	44797
40°	27969
45°	16118
50°	9115
55°	4322
60°	2492
65°	1897
70°	1262
75°	858
80°	781
85°	849



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.1	9.6
10°-20°	203.0	24.7
20°-30°	249.6	30.3
30°-40°	185.4	22.5
40°-50°	75.4	9.2
50°-60°	20.9	2.5
60°-70°	6.5	0.8
70°-80°	2.2	0.3
80°-90°	0.6	0.1
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°	531.7	64.6
0°-40°	717.1	87.2
0°-60°	813.4	98.9
0°-90°	822.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	822.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	865	
5°	846	79
15°	728	203
25°	549	250
35°	298	185
45°	92	75
55°	20	21
65°	6	7
75°	2	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	865.1
2.5°	856.8
5°	846.1
7.5°	824.8
10°	793.4
12.5°	760.9
15°	727.6
17.5°	687.9
20°	642.9
22.5°	597.3
25°	548.7
27.5°	495.9
30°	436.1
32.5°	367.9
35°	297.5
37.5°	231.1
40°	173.7
42.5°	126.8
45°	92.4
47.5°	66.3
50°	47.5
52.5°	32.5
55°	20.1
57.5°	13.1
60°	10.1
62.5°	8.3
65°	6.5
67.5°	4.8
70°	3.5
72.5°	3.0
75°	1.8
77.5°	1.1
80°	1.1
82.5°	0.6
85°	0.6
87.5°	0.6
90°	0.0



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— 0°-180°







(END OF REPORT)