

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: P581462

Luminaire Tested: **HC407D010-HM40525840-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581462
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: HC407D010-HM40525840-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 983.1 lumens
Efficiency: N/A
Efficacy: 122.9 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

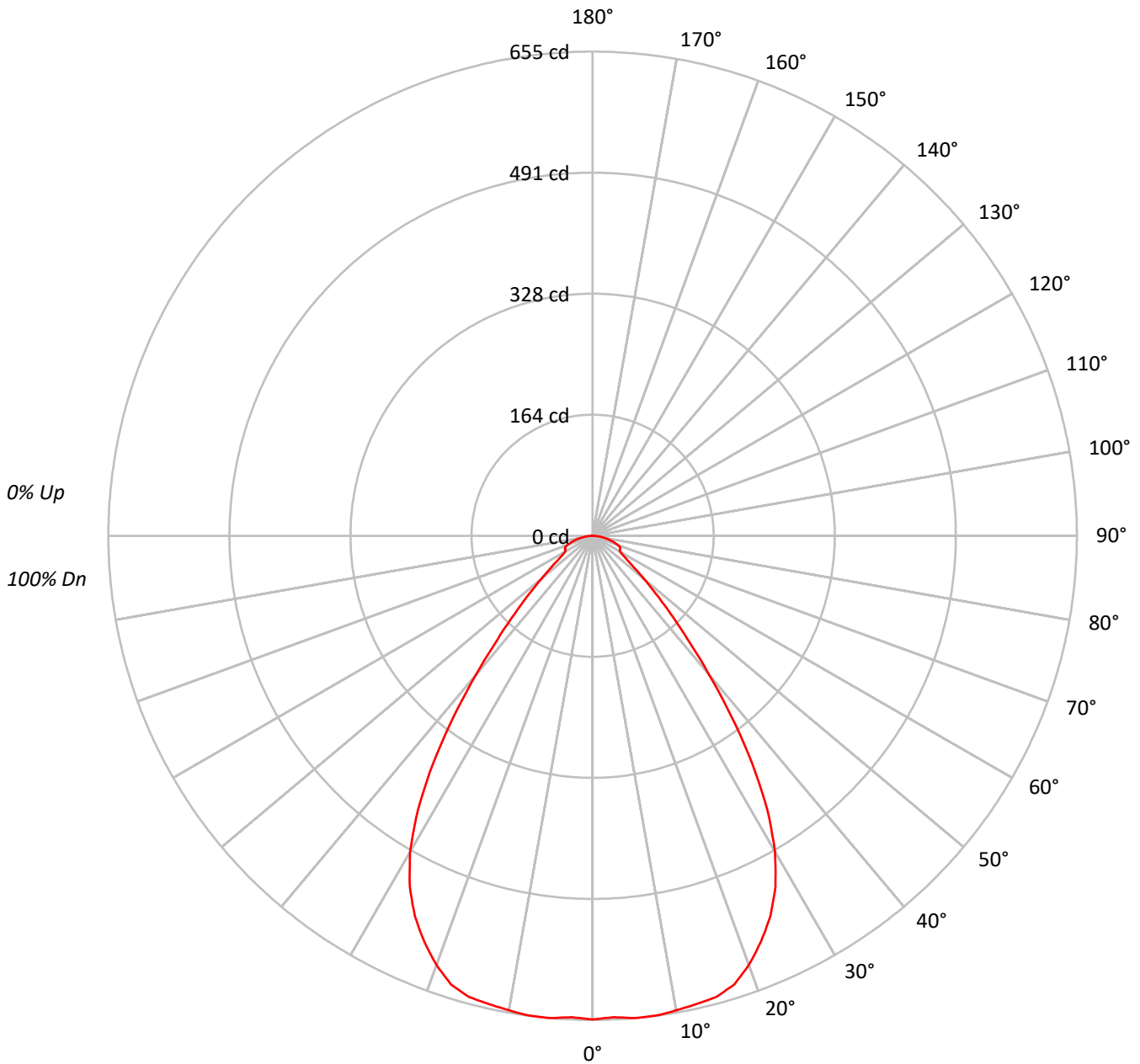
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	80705
5°	81088
10°	81637
15°	82467
20°	81093
25°	77357
30°	70274
35°	56707
40°	39336
45°	25834
50°	17289
55°	12301
60°	10534
65°	12083
70°	12983
75°	12486
80°	11223
85°	10331



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	6.3
10°-20°	181.4	18.5
20°-30°	259.2	26.4
30°-40°	231.5	23.6
40°-50°	118.8	12.1
50°-60°	54.0	5.5
60°-70°	40.3	4.1
70°-80°	27.4	2.8
80°-90°	8.1	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°	503.0	51.2
0°-40°	734.6	74.7
0°-60°	907.3	92.3
0°-90°	983.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	983.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	654	
5°	655	62
15°	646	181
25°	568	259
35°	377	232
45°	148	119
55°	57	54
65°	41	40
75°	26	27
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	654.3
2.5°	651.8
5°	654.9
7.5°	654.9
10°	651.8
12.5°	648.9
15°	645.8
17.5°	636.6
20°	617.8
22.5°	594.6
25°	568.4
27.5°	535.5
30°	493.4
32.5°	439.8
35°	376.6
37.5°	308.9
40°	244.3
42.5°	190.7
45°	148.1
47.5°	115.7
50°	90.1
52.5°	70.7
55°	57.2
57.5°	48.1
60°	42.7
62.5°	41.4
65°	41.4
67.5°	40.2
70°	36.0
72.5°	31.1
75°	26.2
77.5°	20.7
80°	15.8
82.5°	11.6
85°	7.3
87.5°	3.1
90°	0.0



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— 0°-180°







(END OF REPORT)