

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: P581497

Luminaire Tested: **HC407D010-HM40525930-41WDBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC407D010-HM40525930-41WDBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 651.7 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

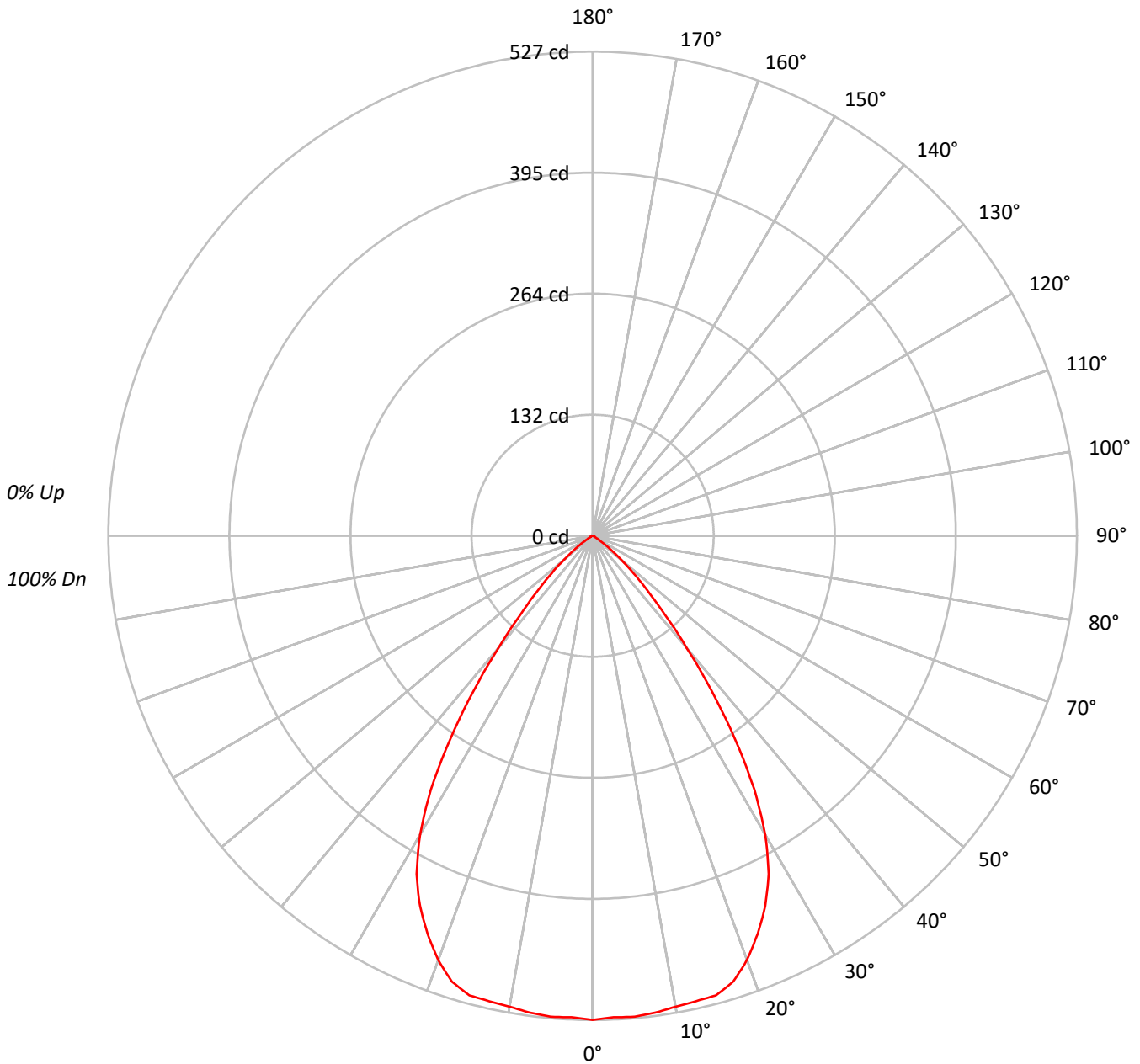
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78			
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72			
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66			
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61			
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56			
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52			
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49			
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	65003
5°	65066
10°	65179
15°	66134
20°	64489
25°	60509
30°	53524
35°	40701
40°	25634
45°	14722
50°	7810
55°	3226
60°	863
65°	730
70°	541
75°	477
80°	355
85°	708



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	7.7
10°-20°	145.0	22.3
20°-30°	202.4	31.1
30°-40°	166.6	25.6
40°-50°	68.6	10.5
50°-60°	15.4	2.4
60°-70°	2.5	0.4
70°-80°	0.9	0.1
80°-90°	0.3	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°	397.4	61.0
0°-40°	563.9	86.5
0°-60°	648.0	99.4
0°-90°	651.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	651.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	527	
5°	526	50
15°	518	145
25°	445	202
35°	270	167
45°	84	69
55°	15	15
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	527.0
2.5°	524.5
5°	525.5
7.5°	523.5
10°	520.4
12.5°	518.9
15°	517.9
17.5°	508.9
20°	491.3
22.5°	469.2
25°	444.6
27.5°	414.9
30°	375.8
32.5°	327.5
35°	270.3
37.5°	212.5
40°	159.2
42.5°	116.1
45°	84.4
47.5°	60.3
50°	40.7
52.5°	25.6
55°	15.0
57.5°	7.5
60°	3.5
62.5°	3.0
65°	2.5
67.5°	2.0
70°	1.5
72.5°	1.0
75°	1.0
77.5°	0.5
80°	0.5
82.5°	0.5
85°	0.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)