

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: P581498

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581498
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-HM40525930-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 811.1 lumens
Efficiency: N/A
Efficacy: 101.4 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

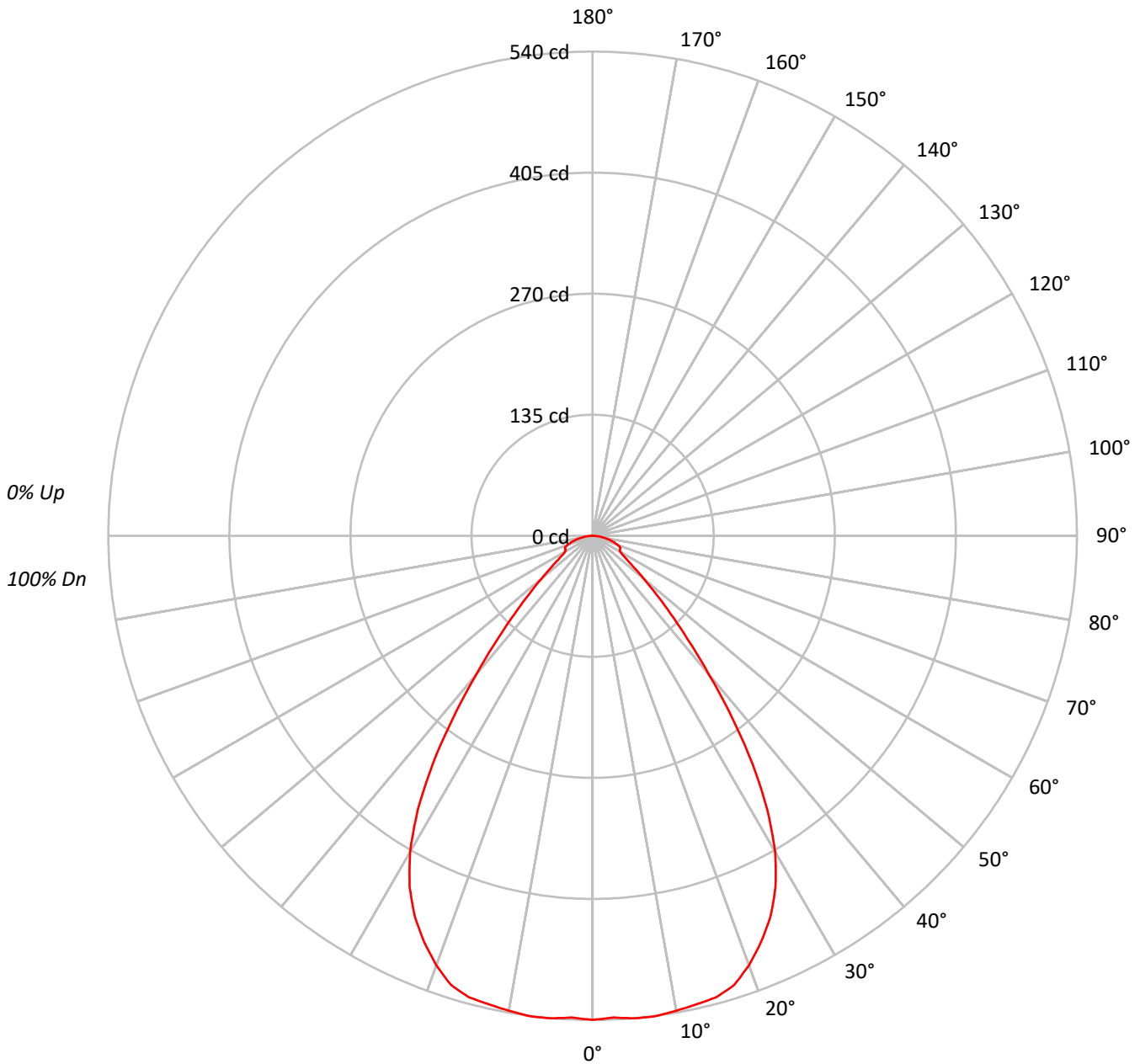
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	66594
5°	66898
10°	67359
15°	68037
20°	66904
25°	63829
30°	57996
35°	46784
40°	32445
45°	21299
50°	14277
55°	10150
60°	8684
65°	9952
70°	10711
75°	10294
80°	9305
85°	8491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.5	6.3
10°-20°	149.7	18.5
20°-30°	213.9	26.4
30°-40°	191.0	23.6
40°-50°	98.0	12.1
50°-60°	44.5	5.5
60°-70°	33.2	4.1
70°-80°	22.6	2.8
80°-90°	6.7	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°	415.0	51.2
0°-40°	606.1	74.7
0°-60°	748.6	92.3
0°-90°	811.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	811.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	540	
5°	540	51
15°	533	150
25°	469	214
35°	311	191
45°	122	98
55°	47	45
65°	34	33
75°	22	23
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	539.9
2.5°	537.8
5°	540.3
7.5°	540.3
10°	537.8
12.5°	535.3
15°	532.8
17.5°	525.3
20°	509.7
22.5°	490.6
25°	469.0
27.5°	441.8
30°	407.2
32.5°	362.9
35°	310.7
37.5°	254.8
40°	201.5
42.5°	157.4
45°	122.1
47.5°	95.5
50°	74.4
52.5°	58.3
55°	47.2
57.5°	39.7
60°	35.2
62.5°	34.1
65°	34.1
67.5°	33.2
70°	29.7
72.5°	25.6
75°	21.6
77.5°	17.1
80°	13.1
82.5°	9.6
85°	6.0
87.5°	2.5
90°	0.0



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— 0°-180°







(END OF REPORT)