

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: P580418

Luminaire Tested: **HC435D010-HM43040830-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580418
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: HC435D010-HM43040830-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3793.0 lumens
Efficiency: N/A
Efficacy: 112.6 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

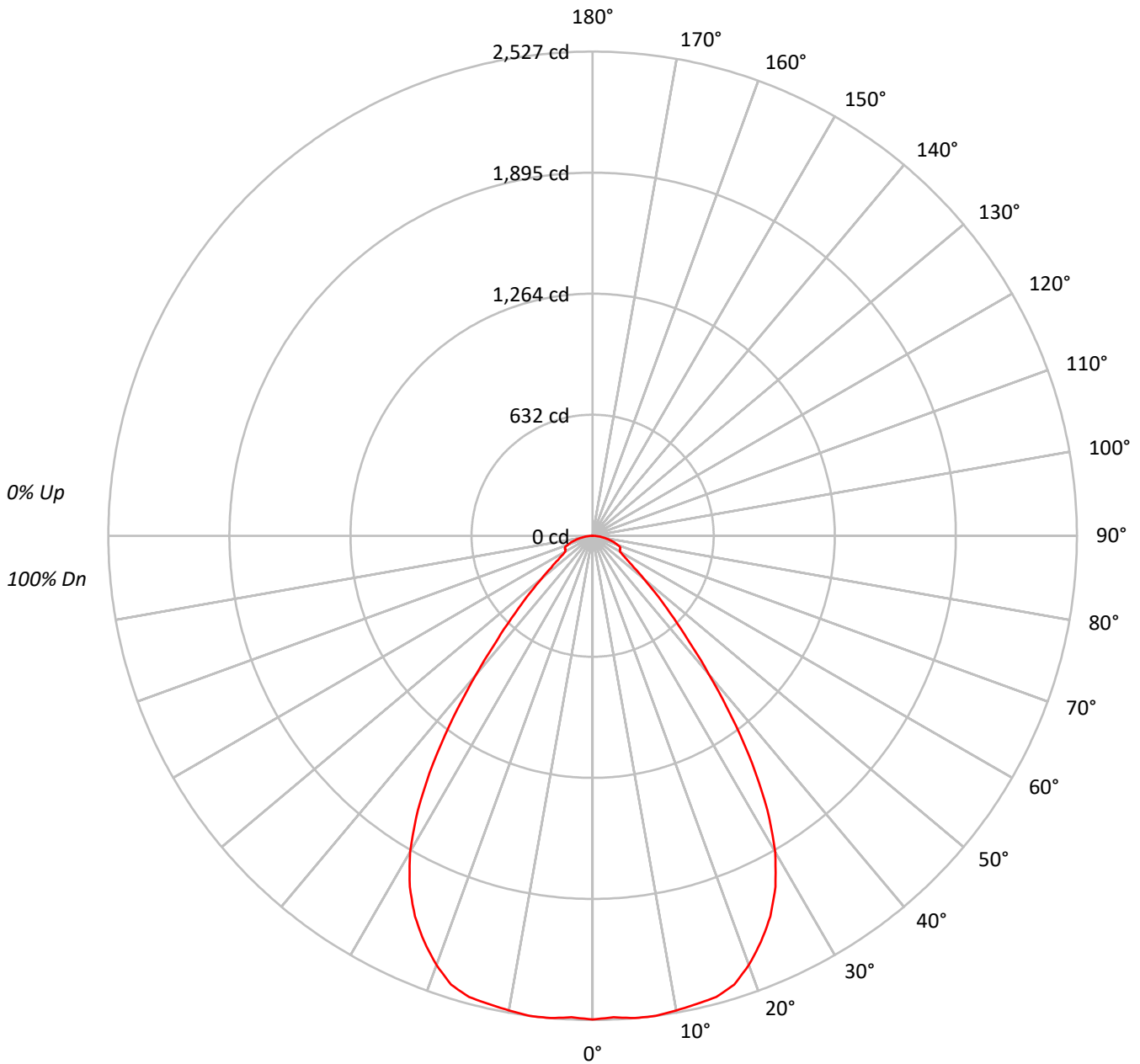
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	311398
5°	312873
10°	315025
15°	318182
20°	312875
25°	298474
30°	271196
35°	218744
40°	151774
45°	99638
50°	66759
55°	47525
60°	40605
65°	46639
70°	50021
75°	48134
80°	43401
85°	39910



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.8	6.3
10°-20°	700.0	18.5
20°-30°	1000.1	26.4
30°-40°	893.4	23.6
40°-50°	458.2	12.1
50°-60°	208.3	5.5
60°-70°	155.3	4.1
70°-80°	105.7	2.8
80°-90°	31.3	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°	1940.8	51.2
0°-40°	2834.2	74.7
0°-60°	3500.7	92.3
0°-90°	3793.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3793.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2525	
5°	2527	241
15°	2492	700
25°	2193	1000
35°	1453	893
45°	571	458
55°	221	208
65°	160	155
75°	101	106
85°	28	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2524.6
2.5°	2515.2
5°	2526.9
7.5°	2526.9
10°	2515.2
12.5°	2503.4
15°	2491.7
17.5°	2456.4
20°	2383.6
22.5°	2294.2
25°	2193.1
27.5°	2066.1
30°	1904.1
32.5°	1697.1
35°	1452.7
37.5°	1191.8
40°	942.6
42.5°	735.8
45°	571.2
47.5°	446.6
50°	347.9
52.5°	272.7
55°	221.0
57.5°	185.7
60°	164.6
62.5°	159.8
65°	159.8
67.5°	155.1
70°	138.7
72.5°	119.9
75°	101.0
77.5°	79.9
80°	61.1
82.5°	44.6
85°	28.2
87.5°	11.8
90°	0.0



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— 0°-180°







(END OF REPORT)