

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: P580436

Luminaire Tested: **HC435D010-HM43040835-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580436
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-HM43040835-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3803.9 lumens
Efficiency: N/A
Efficacy: 112.9 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

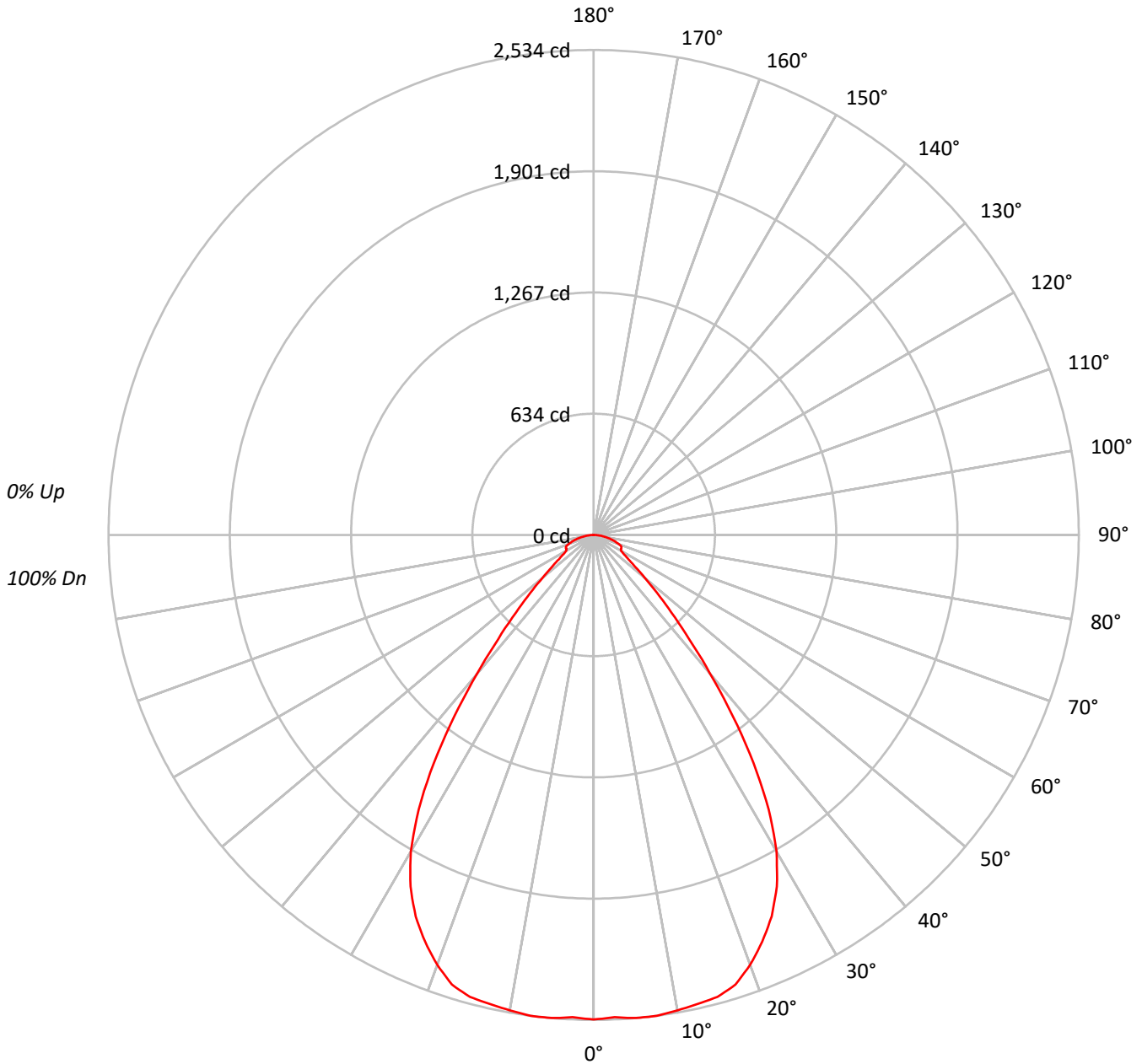
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	312286
5°	313777
10°	315927
15°	319089
20°	313755
25°	299331
30°	271965
35°	219361
40°	152209
45°	99918
50°	66951
55°	47633
60°	40704
65°	46785
70°	50129
75°	48324
80°	43543
85°	40051



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.5	6.3
10°-20°	702.0	18.5
20°-30°	1002.9	26.4
30°-40°	895.9	23.6
40°-50°	459.5	12.1
50°-60°	208.9	5.5
60°-70°	155.8	4.1
70°-80°	106.0	2.8
80°-90°	31.4	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°	1946.4	51.2
0°-40°	2842.3	74.7
0°-60°	3510.7	92.3
0°-90°	3803.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3803.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2532	
5°	2534	242
15°	2499	702
25°	2199	1003
35°	1457	896
45°	573	460
55°	222	209
65°	160	156
75°	101	106
85°	28	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2531.8
2.5°	2522.4
5°	2534.2
7.5°	2534.2
10°	2522.4
12.5°	2510.6
15°	2498.8
17.5°	2463.5
20°	2390.3
22.5°	2300.7
25°	2199.4
27.5°	2072.1
30°	1909.5
32.5°	1702.0
35°	1456.8
37.5°	1195.1
40°	945.3
42.5°	737.8
45°	572.8
47.5°	447.9
50°	348.9
52.5°	273.5
55°	221.5
57.5°	186.2
60°	165.0
62.5°	160.3
65°	160.3
67.5°	155.6
70°	139.0
72.5°	120.3
75°	101.4
77.5°	80.1
80°	61.3
82.5°	44.7
85°	28.3
87.5°	11.8
90°	0.0



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— 0°-180°







(END OF REPORT)