

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: P580457

Luminaire Tested: **HC435D010-HM43040840-41WDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC435D010-HM43040840-41WDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3938.1 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

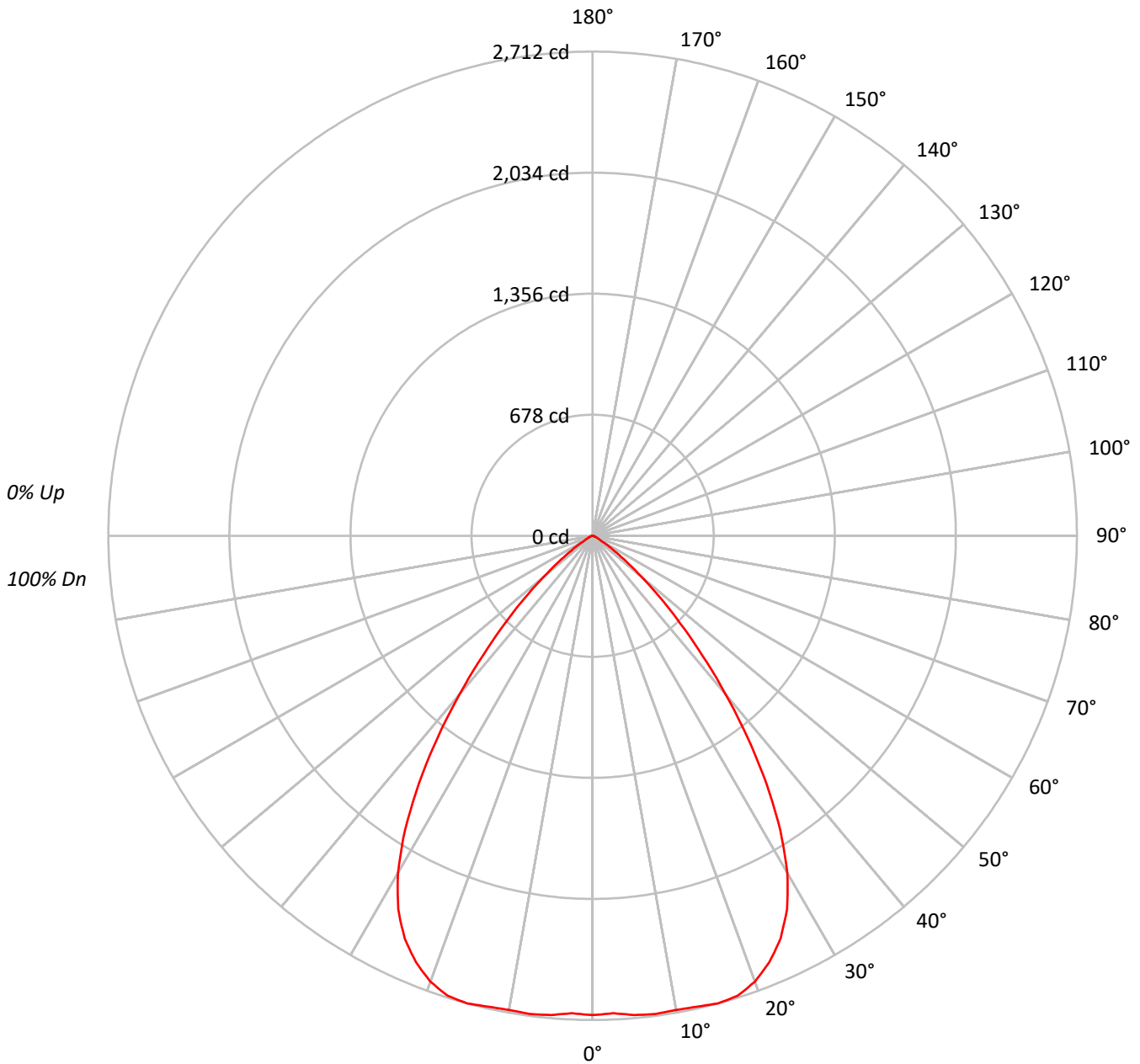
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92																			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84																			
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76																			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69																			
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63																			
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58																			
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53																			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49																			
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45																			
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	331097
5°	333587
10°	337757
15°	346250
20°	348789
25°	338799
30°	310634
35°	255605
40°	186328
45°	120937
50°	68179
55°	32365
60°	12779
65°	7909
70°	5337
75°	3527
80°	1776
85°	3538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.3	6.5
10°-20°	764.4	19.4
20°-30°	1133.8	28.8
30°-40°	1047.2	26.6
40°-50°	546.8	13.9
50°-60°	149.9	3.8
60°-70°	28.9	0.7
70°-80°	8.1	0.2
80°-90°	1.7	0.0
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°	2155.5	54.7
0°-40°	3202.7	81.3
0°-60°	3899.4	99.0
0°-90°	3938.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3938.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2684	
5°	2694	257
15°	2712	764
25°	2489	1134
35°	1698	1047
45°	693	547
55°	150	150
65°	27	29
75°	7	8
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2684.3
2.5°	2676.9
5°	2694.2
7.5°	2701.6
10°	2696.7
12.5°	2701.6
15°	2711.5
17.5°	2701.6
20°	2657.2
22.5°	2585.6
25°	2489.4
27.5°	2358.7
30°	2181.0
32.5°	1956.5
35°	1697.5
37.5°	1426.0
40°	1157.2
42.5°	910.4
45°	693.3
47.5°	508.3
50°	355.3
52.5°	236.8
55°	150.5
57.5°	88.8
60°	51.8
62.5°	37.0
65°	27.1
67.5°	19.8
70°	14.8
72.5°	9.9
75°	7.4
77.5°	4.9
80°	2.5
82.5°	2.5
85°	2.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)