

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: P580409

Luminaire Tested: **HC435D010-HM43040827-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC435D010-HM43040827-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2989.0 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

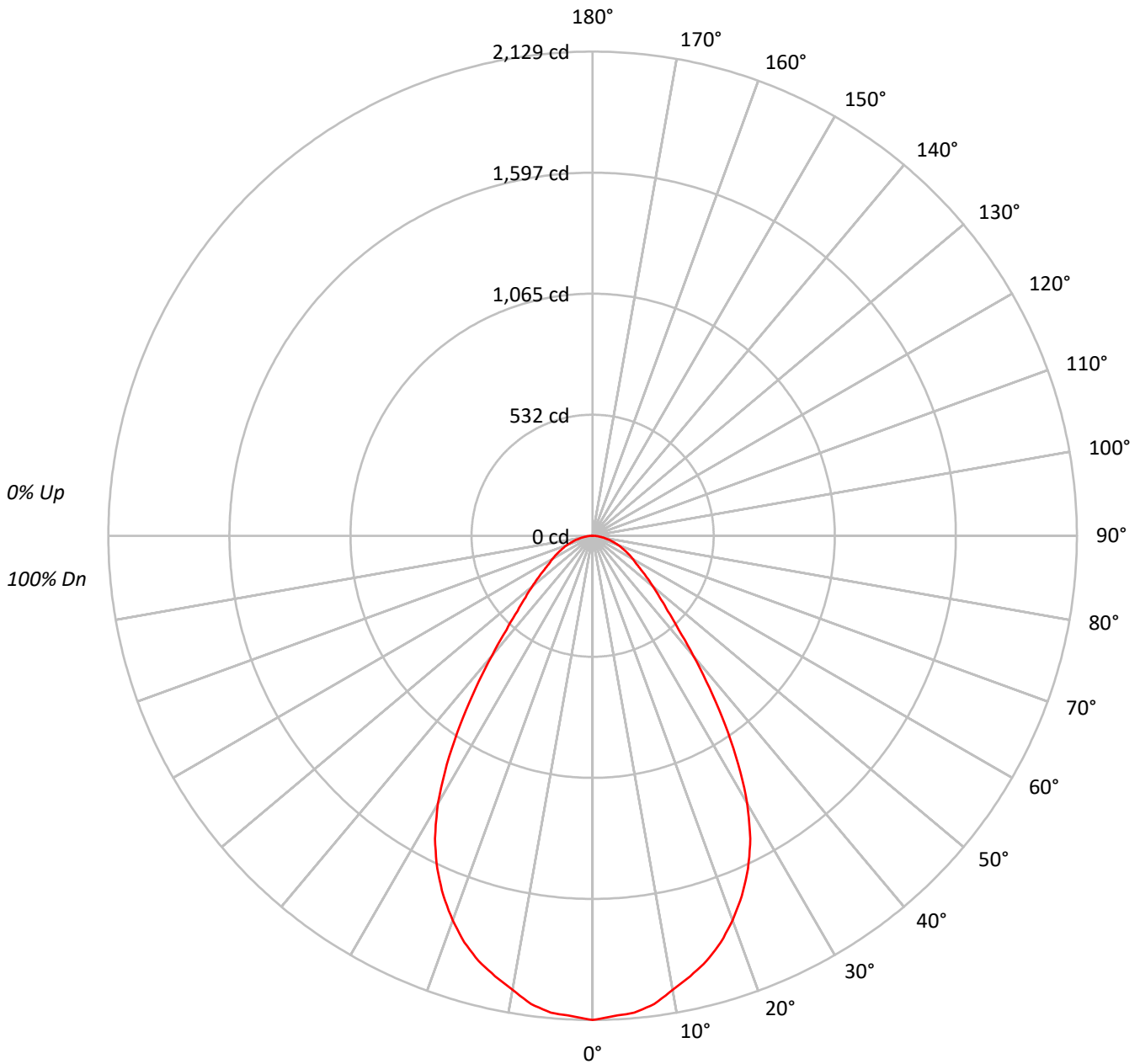
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89			89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			52
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	262603
5°	260647
10°	253866
15°	247170
20°	236100
25°	219973
30°	193687
35°	152761
40°	110892
45°	81462
50°	66279
55°	55590
60°	50374
65°	46289
70°	43096
75°	39317
80°	35516
85°	30711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.5	6.6
10°-20°	542.9	18.2
20°-30°	736.0	24.6
30°-40°	631.5	21.1
40°-50°	372.9	12.5
50°-60°	236.3	7.9
60°-70°	158.8	5.3
70°-80°	87.6	2.9
80°-90°	24.5	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°	1477.4	49.4
0°-40°	2108.9	70.6
0°-60°	2718.1	90.9
0°-90°	2989.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2989.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2129	
5°	2105	198
15°	1936	543
25°	1616	736
35°	1014	632
45°	467	373
55°	258	236
65°	159	159
75°	82	88
85°	22	25
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2129.0
2.5°	2113.8
5°	2105.1
7.5°	2076.8
10°	2026.9
12.5°	1983.4
15°	1935.6
17.5°	1874.8
20°	1798.7
22.5°	1714.1
25°	1616.3
27.5°	1501.1
30°	1359.9
32.5°	1192.7
35°	1014.5
37.5°	842.9
40°	688.7
42.5°	560.5
45°	467.0
47.5°	399.7
50°	345.4
52.5°	299.8
55°	258.5
57.5°	225.9
60°	204.2
62.5°	182.5
65°	158.6
67.5°	139.0
70°	119.5
72.5°	99.9
75°	82.5
77.5°	65.2
80°	50.0
82.5°	34.7
85°	21.7
87.5°	8.7
90°	0.0



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— 0°-180°







(END OF REPORT)