

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: P580264

Luminaire Tested: **HC430D010-HM43040827-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC430D010-HM43040827-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2618.9 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

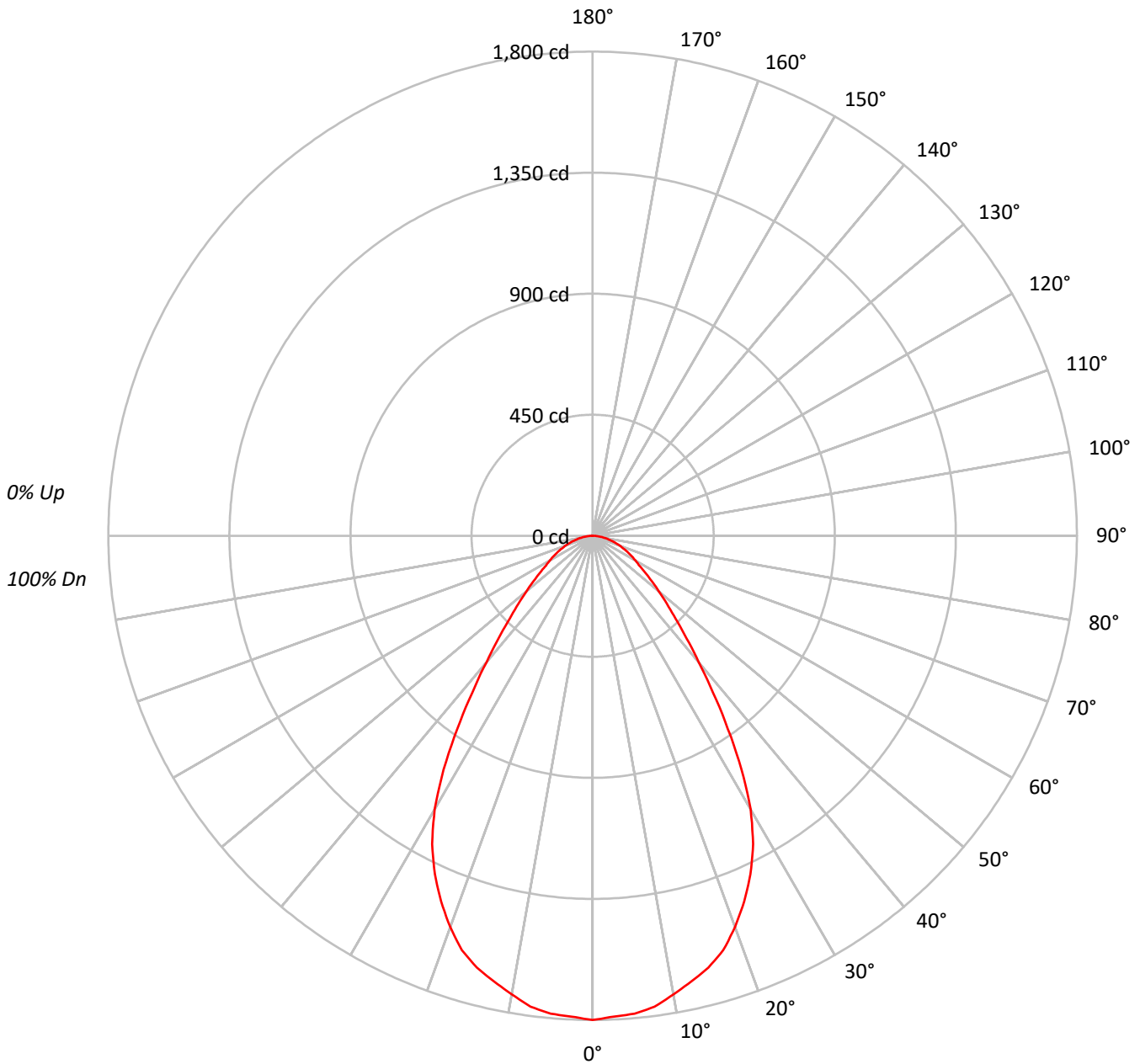
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	79	79	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70	70	70	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63	63	63	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57	57	57	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52	52	52	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47	47	47	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44	44	44	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40	40	40	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	222034
5°	220852
10°	216818
15°	212245
20°	203167
25°	188916
30°	167210
35°	131981
40°	98751
45°	75967
50°	61616
55°	51117
60°	45219
65°	41853
70°	38588
75°	35457
80°	32177
85°	25757



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.6	6.4
10°-20°	466.1	17.8
20°-30°	632.9	24.2
30°-40°	548.3	20.9
40°-50°	344.2	13.1
50°-60°	216.5	8.3
60°-70°	142.3	5.4
70°-80°	78.5	3.0
80°-90°	21.4	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°	1267.7	48.4
0°-40°	1815.9	69.3
0°-60°	2376.7	90.8
0°-90°	2618.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2618.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1800	
5°	1784	169
15°	1662	466
25°	1388	633
35°	876	548
45°	436	344
55°	238	217
65°	143	142
75°	74	78
85°	18	21
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1800.1
2.5°	1789.1
5°	1783.7
7.5°	1765.5
10°	1731.1
12.5°	1696.6
15°	1662.1
17.5°	1615.0
20°	1547.8
22.5°	1471.6
25°	1388.1
27.5°	1292.0
30°	1174.0
32.5°	1030.7
35°	876.5
37.5°	734.9
40°	613.3
42.5°	517.2
45°	435.5
47.5°	373.8
50°	321.1
52.5°	275.8
55°	237.7
57.5°	205.1
60°	183.3
62.5°	163.3
65°	143.4
67.5°	123.4
70°	107.0
72.5°	88.9
75°	74.4
77.5°	58.1
80°	45.3
82.5°	30.8
85°	18.2
87.5°	7.2
90°	0.0



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— 0°-180°







(END OF REPORT)