

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: P580337

Luminaire Tested: **HC430D010-HM43040927-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580337
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: HC430D010-HM43040927-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2156.4 lumens
Efficiency: N/A
Efficacy: 77.0 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

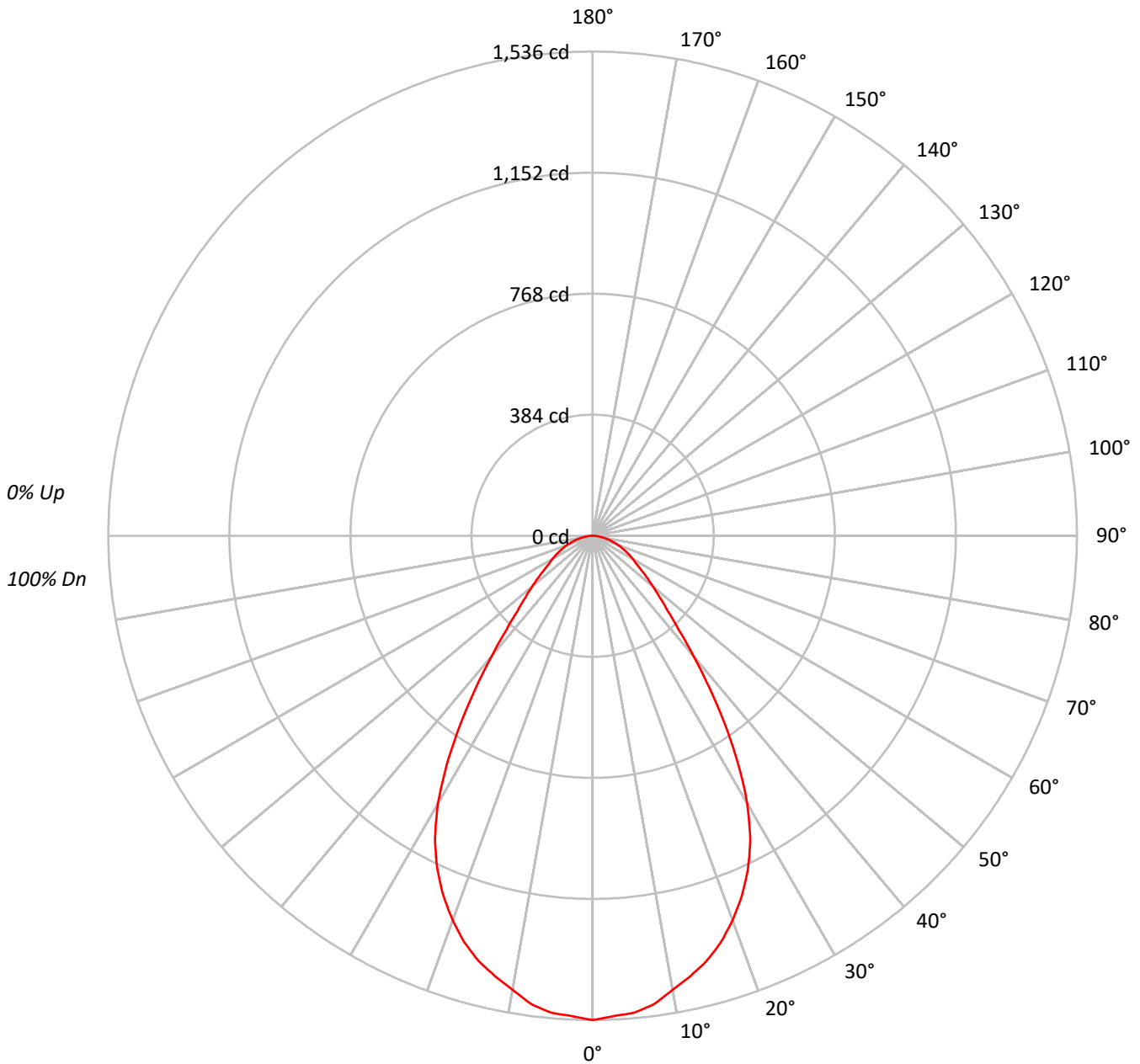
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	189459
5°	188041
10°	183151
15°	178329
20°	170351
25°	158703
30°	139735
35°	110223
40°	80009
45°	58768
50°	47819
55°	40106
60°	36338
65°	33389
70°	31087
75°	28404
80°	25643
85°	22219



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	6.6
10°-20°	391.7	18.2
20°-30°	531.0	24.6
30°-40°	455.6	21.1
40°-50°	269.0	12.5
50°-60°	170.5	7.9
60°-70°	114.5	5.3
70°-80°	63.2	2.9
80°-90°	17.7	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°	1065.9	49.4
0°-40°	1521.5	70.6
0°-60°	1961.0	90.9
0°-90°	2156.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2156.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1536	
5°	1519	143
15°	1396	392
25°	1166	531
35°	732	456
45°	337	269
55°	186	170
65°	114	115
75°	60	63
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1536.0
2.5°	1525.1
5°	1518.7
7.5°	1498.3
10°	1462.3
12.5°	1431.0
15°	1396.5
17.5°	1352.6
20°	1297.8
22.5°	1236.6
25°	1166.1
27.5°	1083.0
30°	981.1
32.5°	860.4
35°	732.0
37.5°	608.1
40°	496.9
42.5°	404.4
45°	336.9
47.5°	288.4
50°	249.2
52.5°	216.2
55°	186.5
57.5°	163.0
60°	147.3
62.5°	131.6
65°	114.4
67.5°	100.3
70°	86.2
72.5°	72.1
75°	59.6
77.5°	47.0
80°	36.1
82.5°	25.0
85°	15.7
87.5°	6.3
90°	0.0



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— 0°-180°







(END OF REPORT)