

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: P580280

Luminaire Tested: **HC430D010-HM43040830-41NDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580280
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC430D010-HM43040830-41NDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2903.9 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

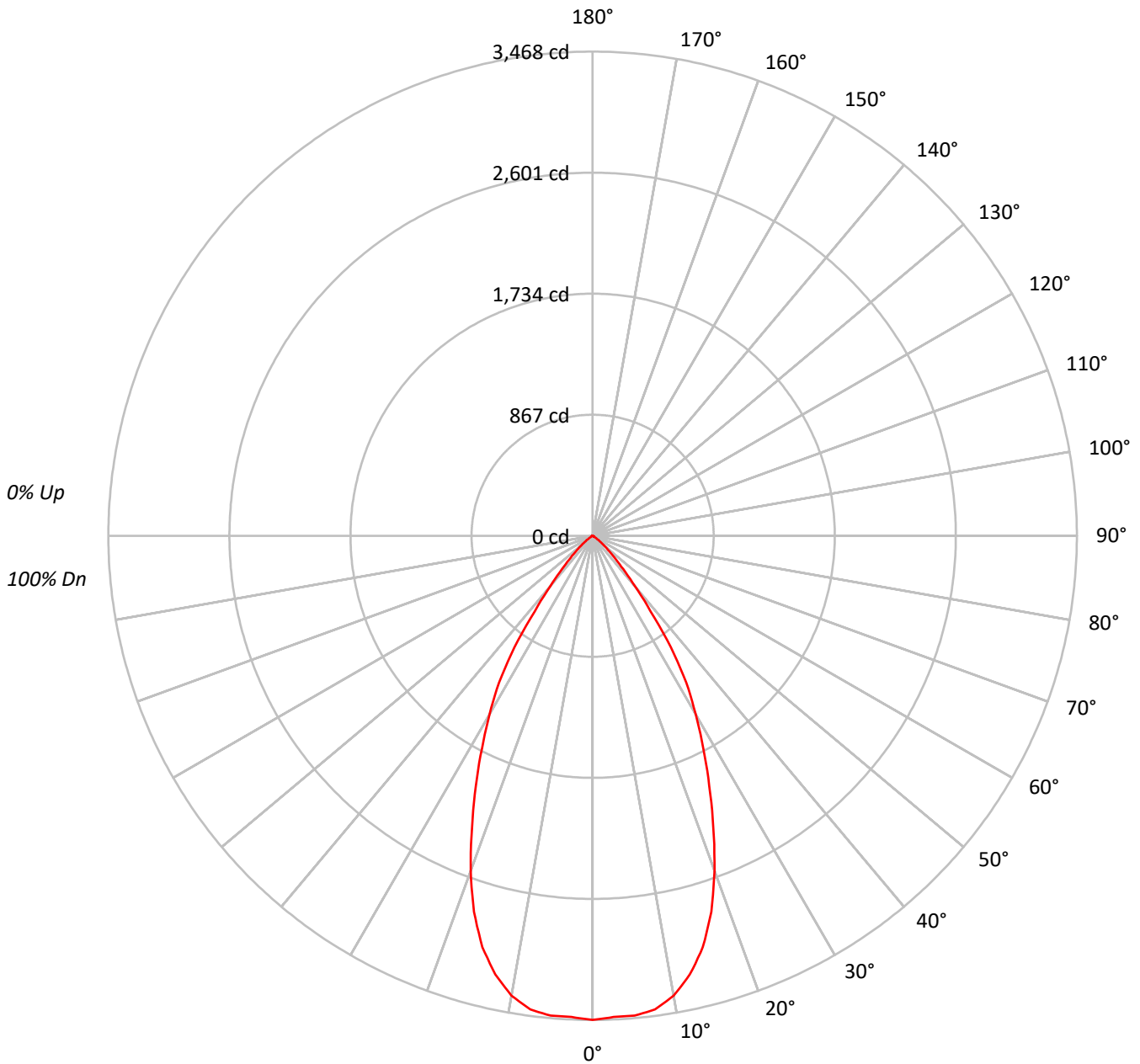
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94			94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87			87
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			81
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76			76
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71			71
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66			66
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			62
8	80	70	64	60	78	70	64	60	69	64	60	68	63	60	67	62	59	58			58
9	76	66	61	57	75	66	60	57	65	60	56	64	59	56	63	59	56	55			55
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	51			51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	427726
5°	427168
10°	418843
15°	389462
20°	334954
25°	269063
30°	210080
35°	147069
40°	75484
45°	38306
50°	19208
55°	7183
60°	2886
65°	2306
70°	1406
75°	905
80°	1350
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.2	11.2
10°-20°	841.9	29.0
20°-30°	906.9	31.2
30°-40°	595.9	20.5
40°-50°	185.3	6.4
50°-60°	36.4	1.3
60°-70°	7.7	0.3
70°-80°	2.8	0.1
80°-90°	0.8	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°	2075.0	71.5
0°-40°	2670.9	92.0
0°-60°	2892.6	99.6
0°-90°	2903.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2903.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3468	
5°	3450	326
15°	3050	842
25°	1977	907
35°	977	596
45°	220	185
55°	33	36
65°	8	8
75°	2	3
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3467.7
2.5°	3450.0
5°	3450.0
7.5°	3422.6
10°	3344.1
12.5°	3218.5
15°	3049.9
17.5°	2824.3
20°	2551.8
22.5°	2257.5
25°	1977.0
27.5°	1716.1
30°	1475.0
32.5°	1247.5
35°	976.7
37.5°	680.6
40°	468.8
42.5°	323.6
45°	219.6
47.5°	149.0
50°	100.1
52.5°	62.7
55°	33.4
57.5°	13.8
60°	11.7
62.5°	9.8
65°	7.9
67.5°	5.9
70°	3.9
72.5°	3.9
75°	1.9
77.5°	1.9
80°	1.9
82.5°	1.9
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)