

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: P580301

Luminaire Tested: **HC430D010-HM43040835-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580301
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-HM43040835-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2707.6 lumens
Efficiency: N/A
Efficacy: 96.7 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

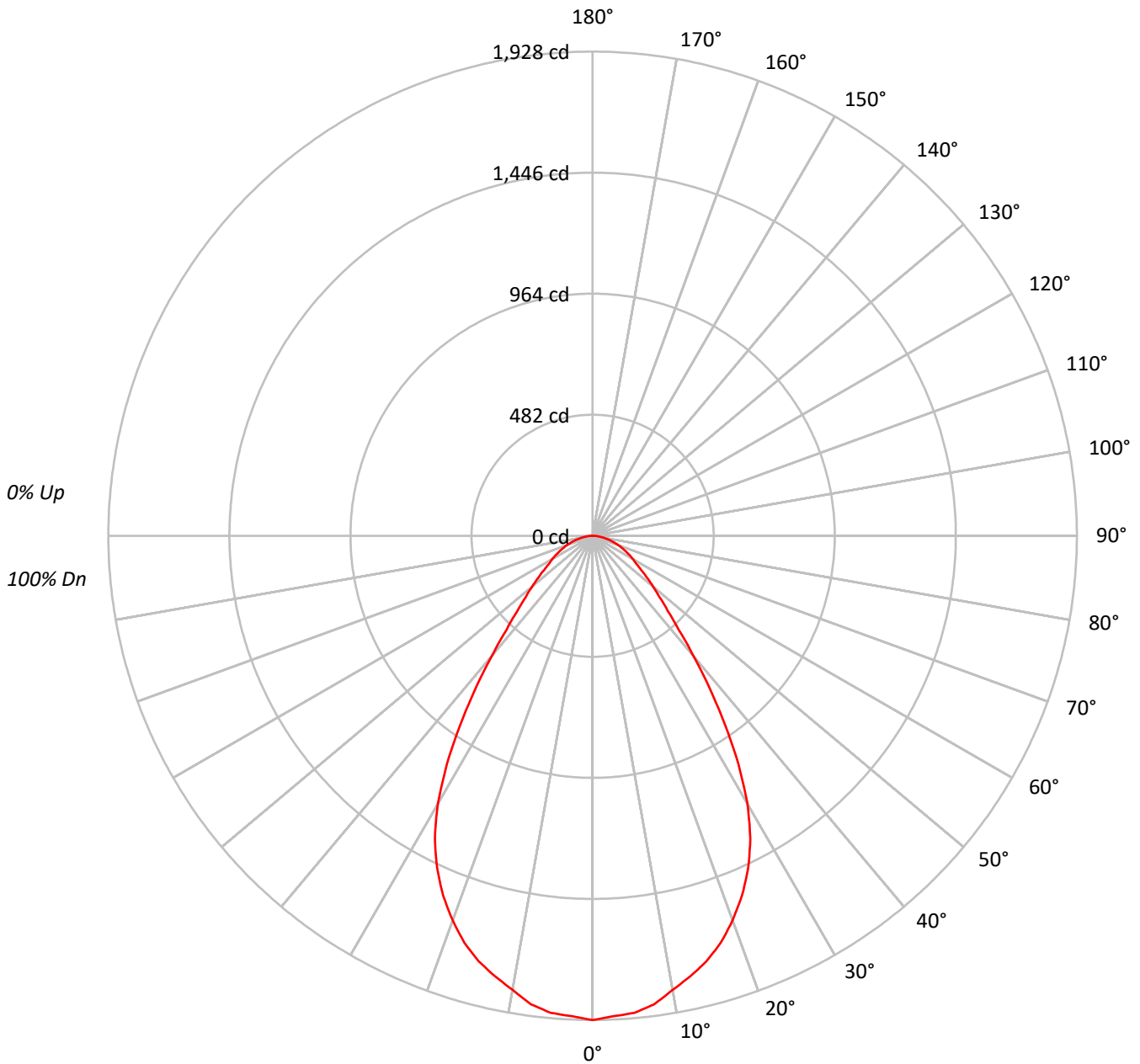
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	237872
5°	236106
10°	229956
15°	223904
20°	213878
25°	199259
30°	175456
35°	138380
40°	100442
45°	73804
50°	60043
55°	50364
60°	45638
65°	41940
70°	39057
75°	35648
80°	32106
85°	27739



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.8	6.6
10°-20°	491.8	18.2
20°-30°	666.7	24.6
30°-40°	572.1	21.1
40°-50°	337.8	12.5
50°-60°	214.1	7.9
60°-70°	143.8	5.3
70°-80°	79.4	2.9
80°-90°	22.2	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°	1338.3	49.4
0°-40°	1910.3	70.6
0°-60°	2462.2	90.9
0°-90°	2707.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2707.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1928	
5°	1907	180
15°	1753	492
25°	1464	667
35°	919	572
45°	423	338
55°	234	214
65°	144	144
75°	75	79
85°	20	22
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1928.5
2.5°	1914.8
5°	1906.9
7.5°	1881.3
10°	1836.0
12.5°	1796.7
15°	1753.4
17.5°	1698.3
20°	1629.4
22.5°	1552.7
25°	1464.1
27.5°	1359.8
30°	1231.9
32.5°	1080.4
35°	919.0
37.5°	763.5
40°	623.8
42.5°	507.7
45°	423.1
47.5°	362.1
50°	312.9
52.5°	271.6
55°	234.2
57.5°	204.6
60°	185.0
62.5°	165.3
65°	143.7
67.5°	126.0
70°	108.3
72.5°	90.6
75°	74.8
77.5°	59.0
80°	45.2
82.5°	31.5
85°	19.6
87.5°	7.9
90°	0.0



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— 0°-180°







(END OF REPORT)