

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: P592736

Luminaire Tested: **HC430D010-HM43040850-41WDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC430D010-HM43040850-41WDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3493.8 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

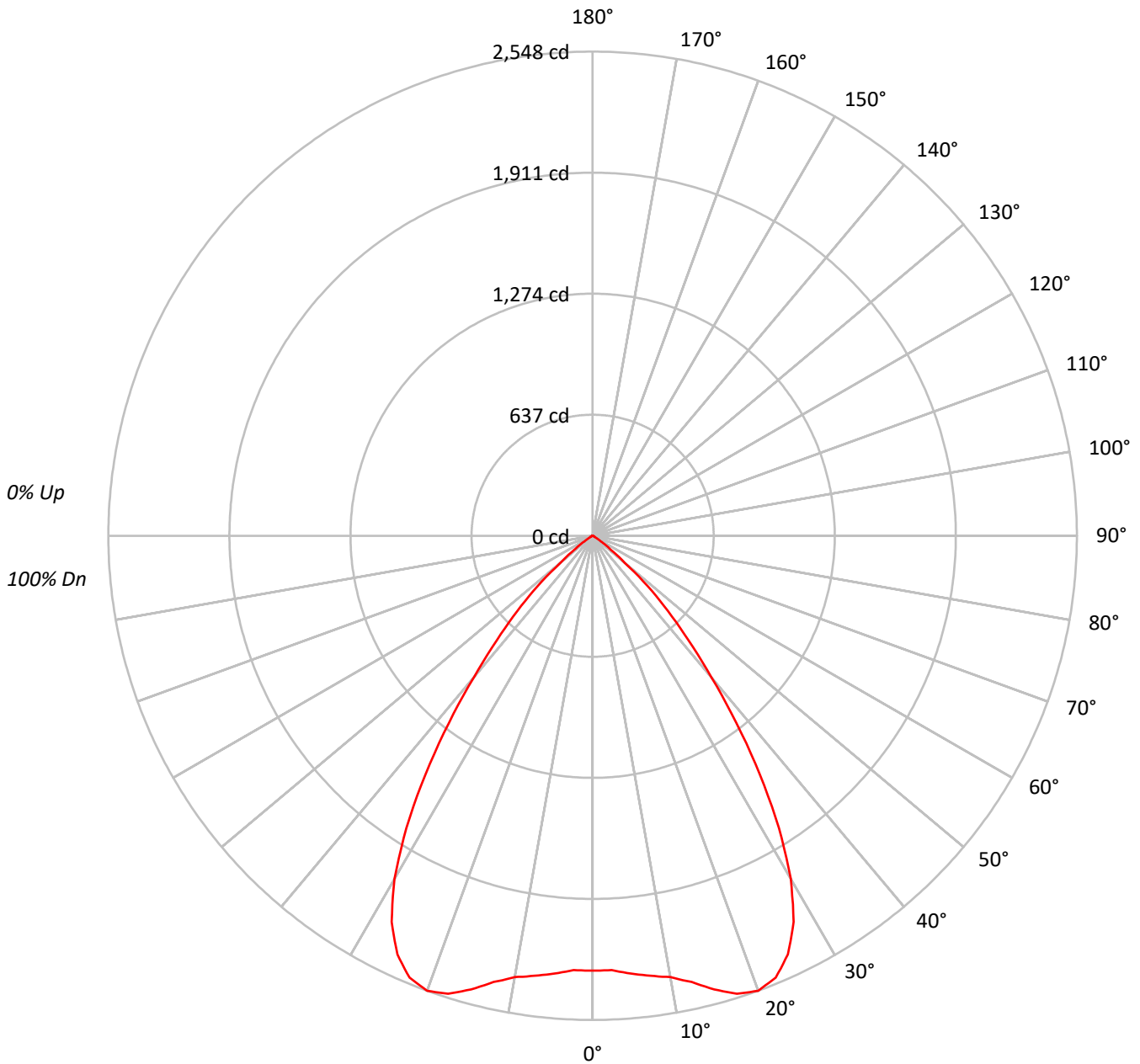
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92			92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85			85
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77			77
4	95	86	80	76	93	85	79	75	83	78	74	81	77	73	79	75	72	71			71
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65			65
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	65	61	60			60
7	79	69	62	57	78	68	62	57	67	61	57	66	60	57	64	60	56	55			55
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51			51
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47			47
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43			43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	282252
5°	286388
10°	295373
15°	315615
20°	334415
25°	330770
30°	296861
35°	231046
40°	156524
45°	97720
50°	42293
55°	14172
60°	3552
65°	2393
70°	1515
75°	953
80°	1421
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.2	6.4
10°-20°	701.6	20.1
20°-30°	1099.3	31.5
30°-40°	948.7	27.2
40°-50°	436.3	12.5
50°-60°	74.1	2.1
60°-70°	8.4	0.2
70°-80°	3.0	0.1
80°-90°	0.3	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°	2023.1	57.9
0°-40°	2971.8	85.1
0°-60°	3482.1	99.7
0°-90°	3493.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3493.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2288	
5°	2313	222
15°	2472	702
25°	2430	1099
35°	1534	949
45°	560	436
55°	66	74
65°	8	8
75°	2	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2288.3
2.5°	2288.3
5°	2313.0
7.5°	2335.6
10°	2358.3
12.5°	2405.6
15°	2471.6
17.5°	2527.2
20°	2547.7
22.5°	2516.8
25°	2430.4
27.5°	2290.3
30°	2084.3
32.5°	1824.8
35°	1534.4
37.5°	1241.9
40°	972.1
42.5°	743.5
45°	560.2
47.5°	393.3
50°	220.4
52.5°	121.5
55°	65.9
57.5°	32.9
60°	14.4
62.5°	10.3
65°	8.2
67.5°	6.2
70°	4.2
72.5°	4.2
75°	2.0
77.5°	2.0
80°	2.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)