

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: P580589

Luminaire Tested: **HC440D010-HM43040835-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580589
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: HC440D010-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: 3750.9 lumens
Efficiency: N/A
Efficacy: 91.5 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

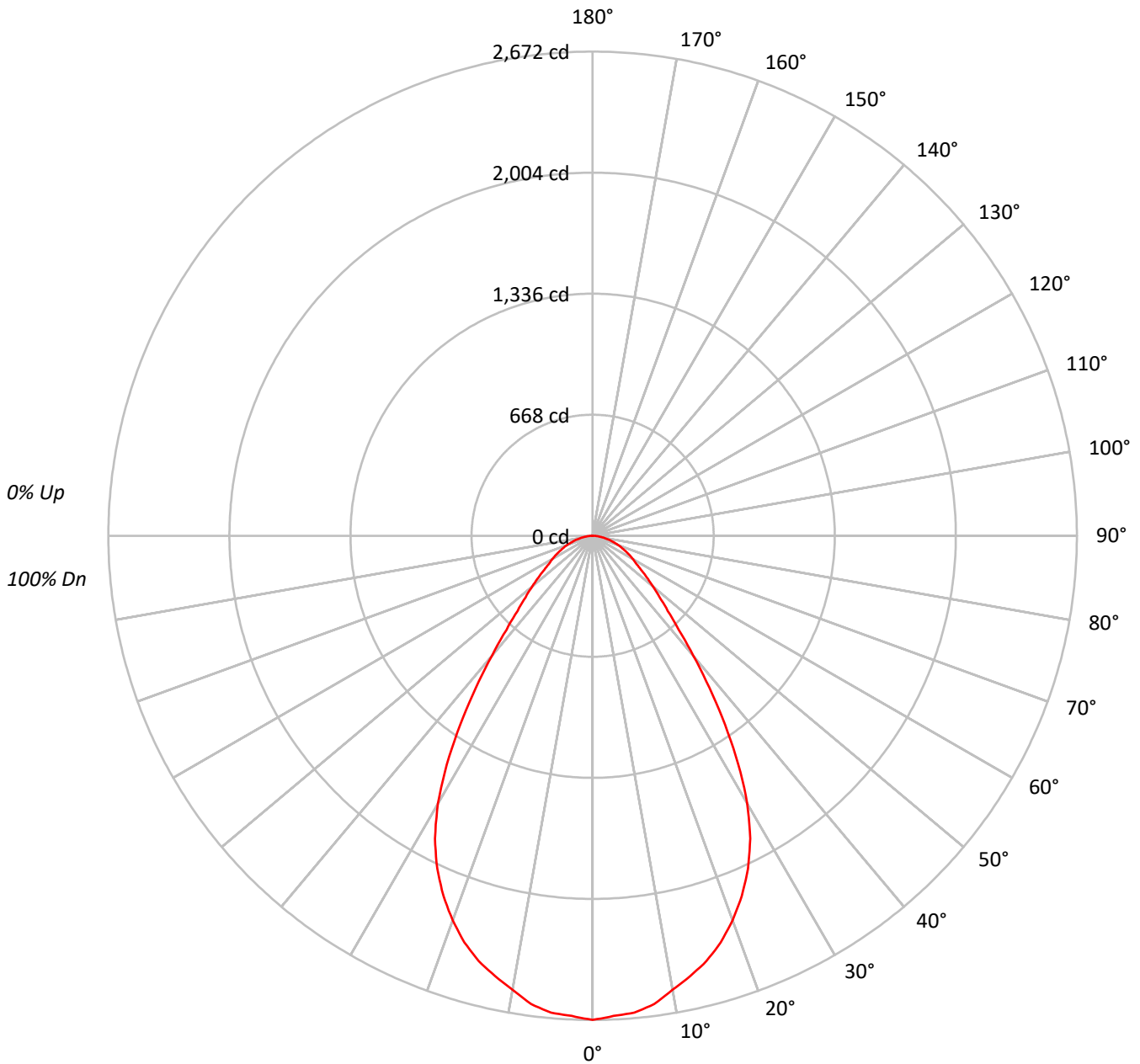
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	329543
5°	327087
10°	318569
15°	310188
20°	296310
25°	276045
30°	243066
35°	191700
40°	139150
45°	102255
50°	83185
55°	69761
60°	63227
65°	58080
70°	54096
75°	49373
80°	44537
85°	38494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.1	6.6
10°-20°	681.3	18.2
20°-30°	923.6	24.6
30°-40°	792.5	21.1
40°-50°	468.0	12.5
50°-60°	296.5	7.9
60°-70°	199.2	5.3
70°-80°	110.0	2.9
80°-90°	30.8	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°	1854.0	49.4
0°-40°	2646.5	70.6
0°-60°	3411.0	90.9
0°-90°	3750.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3750.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2672	
5°	2642	249
15°	2429	681
25°	2028	924
35°	1273	792
45°	586	468
55°	324	297
65°	199	199
75°	104	110
85°	27	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2671.7
2.5°	2652.6
5°	2641.7
7.5°	2606.3
10°	2543.5
12.5°	2489.1
15°	2429.1
17.5°	2352.8
20°	2257.4
22.5°	2151.0
25°	2028.3
27.5°	1883.8
30°	1706.6
32.5°	1496.6
35°	1273.1
37.5°	1057.8
40°	864.2
42.5°	703.3
45°	586.2
47.5°	501.6
50°	433.5
52.5°	376.2
55°	324.4
57.5°	283.5
60°	256.3
62.5°	229.0
65°	199.0
67.5°	174.4
70°	150.0
72.5°	125.4
75°	103.6
77.5°	81.8
80°	62.7
82.5°	43.6
85°	27.2
87.5°	10.9
90°	0.0



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— 0°-180°







(END OF REPORT)