

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: P580660

Luminaire Tested: **HC440D010-HM43040935-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC440D010-HM43040935-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3509.6 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

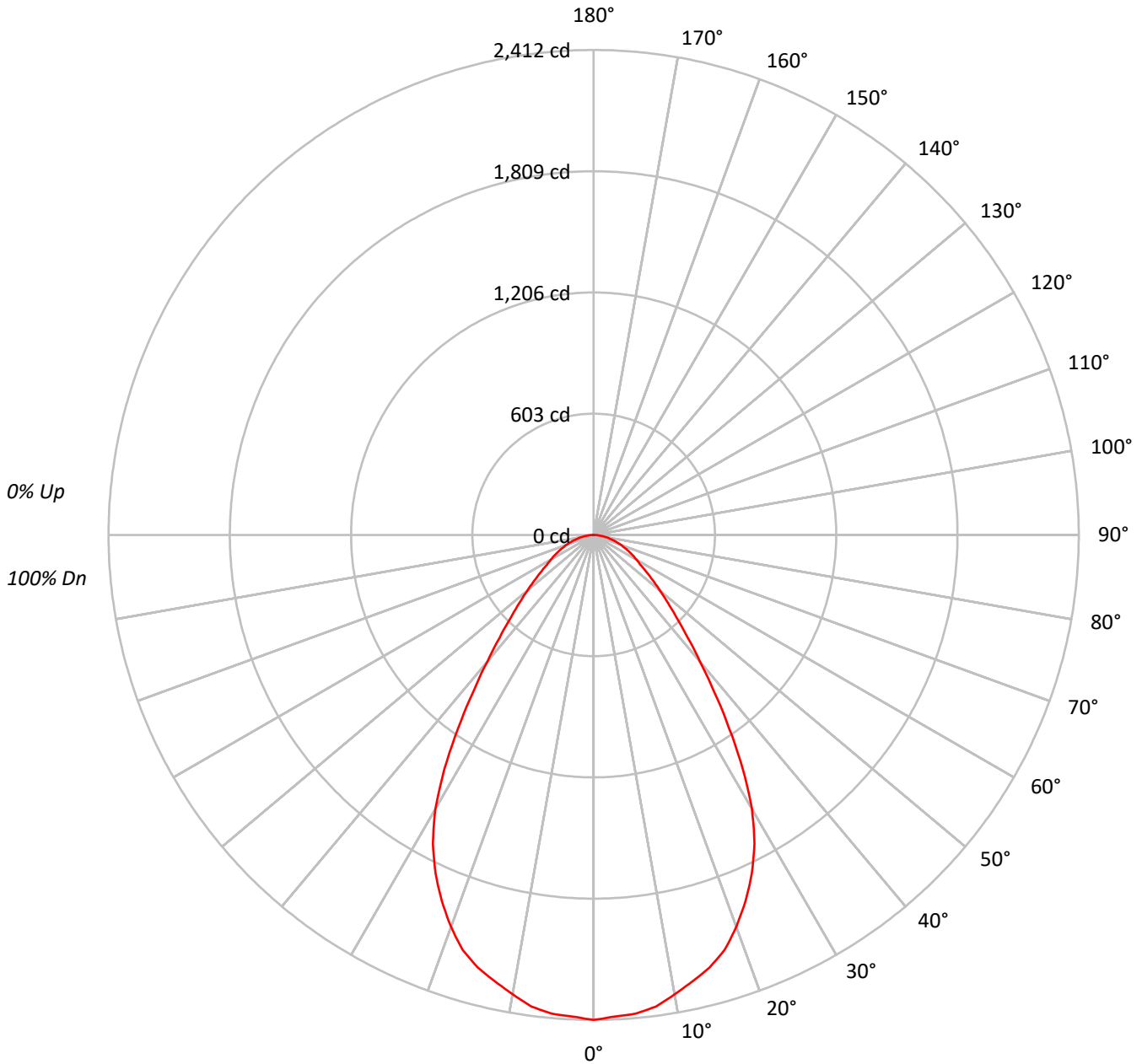
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	297534
5°	295959
10°	290551
15°	284432
20°	272263
25°	253167
30°	224081
35°	176853
40°	132339
45°	101801
50°	82590
55°	68514
60°	60587
65°	56066
70°	51752
75°	47514
80°	43187
85°	34390



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.0	6.4
10°-20°	624.6	17.8
20°-30°	848.2	24.2
30°-40°	734.7	20.9
40°-50°	461.3	13.1
50°-60°	290.2	8.3
60°-70°	190.6	5.4
70°-80°	105.2	3.0
80°-90°	28.8	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°	1698.8	48.4
0°-40°	2433.5	69.3
0°-60°	3185.0	90.8
0°-90°	3509.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3509.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2412	
5°	2390	226
15°	2227	625
25°	1860	848
35°	1174	735
45°	584	461
55°	319	290
65°	192	191
75°	100	105
85°	24	29
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2412.2
2.5°	2397.6
5°	2390.3
7.5°	2366.0
10°	2319.8
12.5°	2273.6
15°	2227.4
17.5°	2164.2
20°	2074.2
22.5°	1972.1
25°	1860.2
27.5°	1731.4
30°	1573.3
32.5°	1381.2
35°	1174.5
37.5°	984.8
40°	821.9
42.5°	693.0
45°	583.6
47.5°	501.0
50°	430.4
52.5°	369.6
55°	318.6
57.5°	274.8
60°	245.6
62.5°	218.8
65°	192.1
67.5°	165.3
70°	143.5
72.5°	119.2
75°	99.7
77.5°	77.8
80°	60.8
82.5°	41.4
85°	24.3
87.5°	9.8
90°	0.0



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— 0°-180°







(END OF REPORT)