

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: P580606

Luminaire Tested: **HC440D010-HM43040840-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580606
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-HM43040840-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4118.6 lumens
Efficiency: N/A
Efficacy: 100.5 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

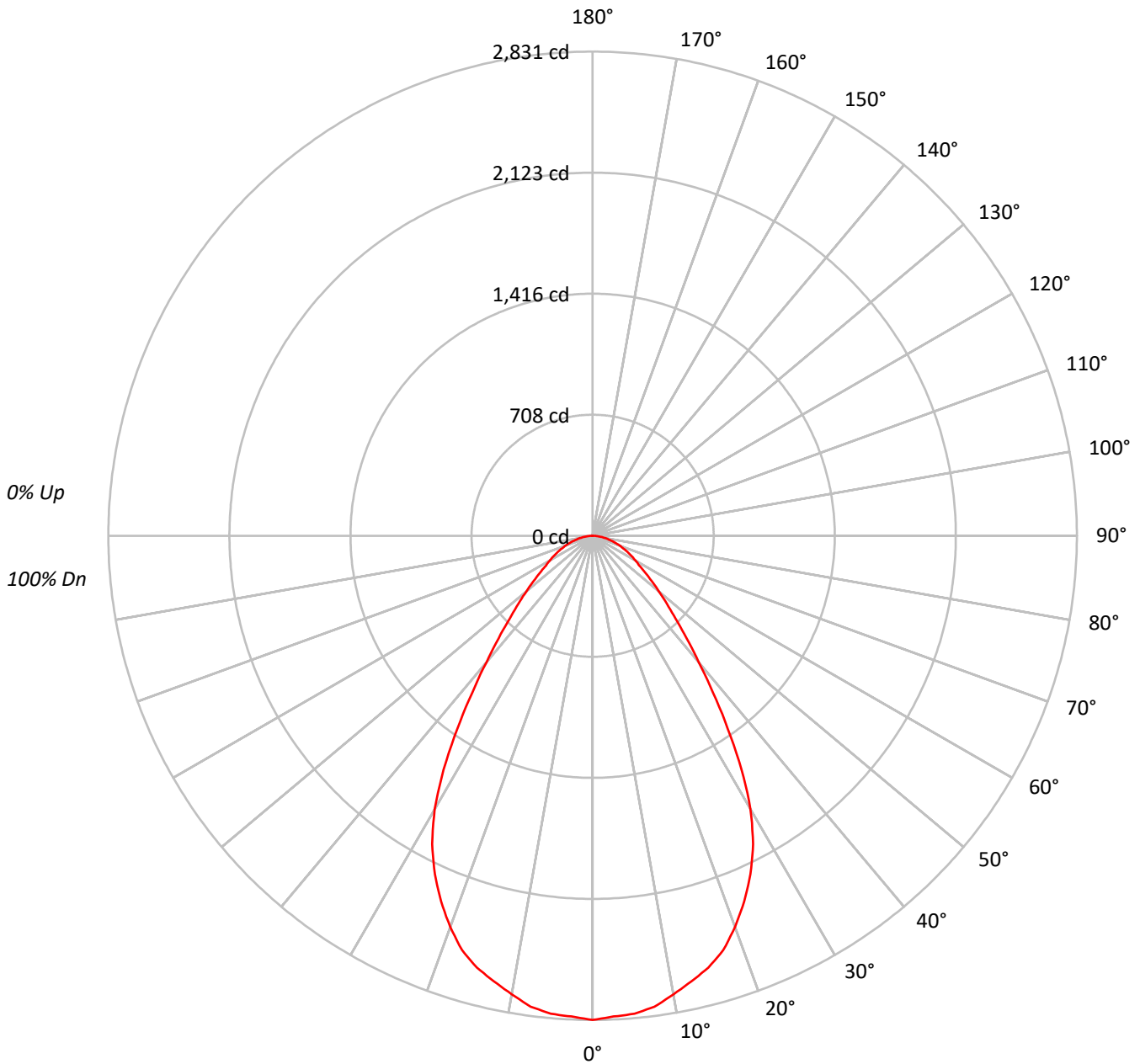
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	349179
5°	347331
10°	340964
15°	333787
20°	319504
25°	297099
30°	262963
35°	207541
40°	155300
45°	119472
50°	96925
55°	80406
60°	71096
65°	65785
70°	60732
75°	55759
80°	50646
85°	40476



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.2	6.4
10°-20°	733.0	17.8
20°-30°	995.3	24.2
30°-40°	862.2	20.9
40°-50°	541.3	13.1
50°-60°	340.6	8.3
60°-70°	223.7	5.4
70°-80°	123.4	3.0
80°-90°	33.8	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°	1993.6	48.4
0°-40°	2855.8	69.3
0°-60°	3737.7	90.8
0°-90°	4118.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4118.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2831	
5°	2805	265
15°	2614	733
25°	2183	995
35°	1378	862
45°	685	541
55°	374	341
65°	225	224
75°	117	123
85°	29	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2830.9
2.5°	2813.7
5°	2805.2
7.5°	2776.6
10°	2722.3
12.5°	2668.2
15°	2613.9
17.5°	2539.7
20°	2434.1
22.5°	2314.3
25°	2183.0
27.5°	2031.8
30°	1846.3
32.5°	1620.9
35°	1378.3
37.5°	1155.8
40°	964.5
42.5°	813.3
45°	684.9
47.5°	587.9
50°	505.1
52.5°	433.7
55°	373.9
57.5°	322.5
60°	288.2
62.5°	256.8
65°	225.4
67.5°	194.0
70°	168.4
72.5°	139.8
75°	117.0
77.5°	91.4
80°	71.3
82.5°	48.5
85°	28.6
87.5°	11.4
90°	0.0



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— 0°-180°







(END OF REPORT)