

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: P580634

Luminaire Tested: **HC440D010-HM43040930-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC440D010-HM43040930-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3760.8 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

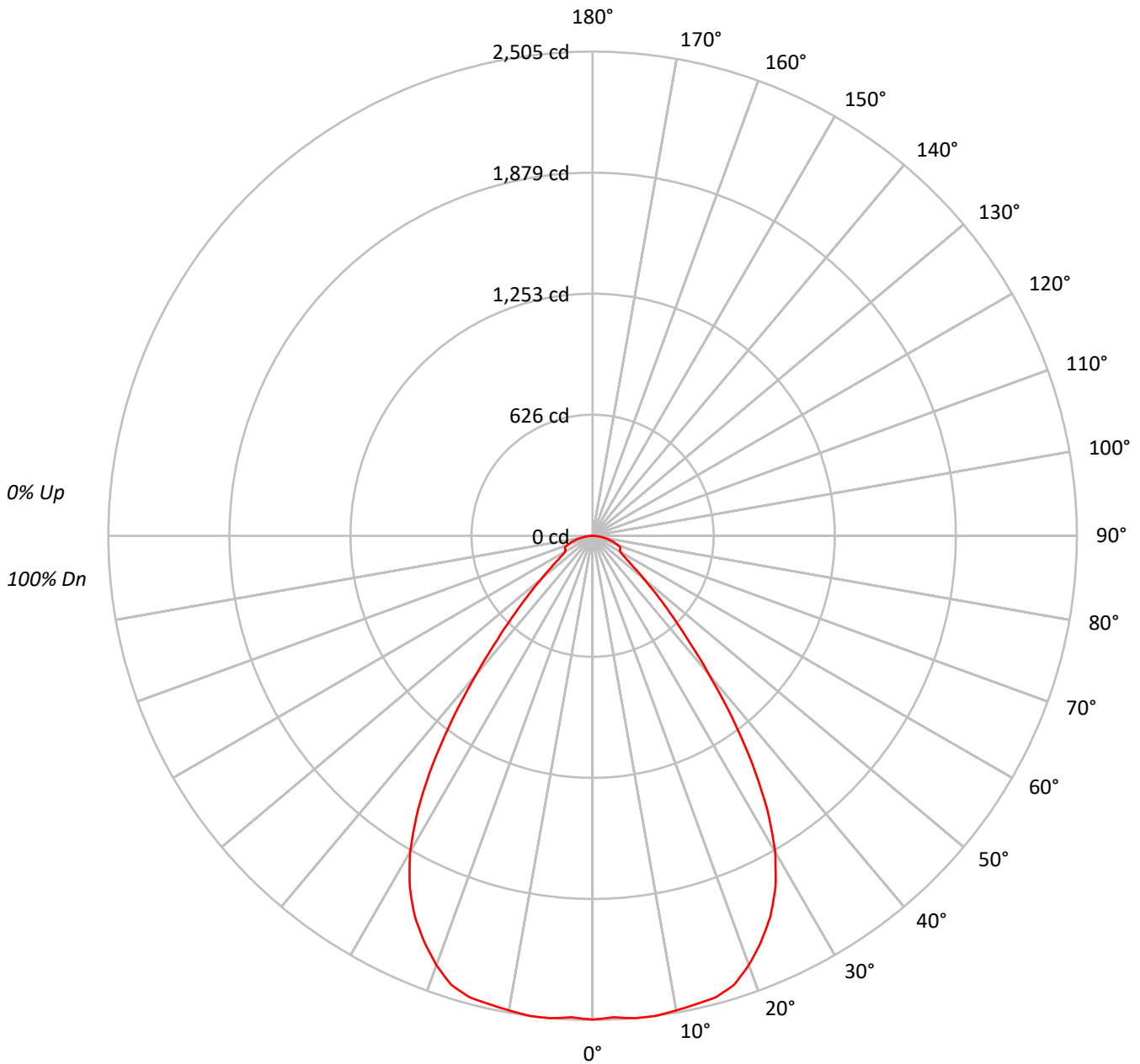
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	308759
5°	310211
10°	312345
15°	315475
20°	310211
25°	295943
30°	268888
35°	216891
40°	150486
45°	98784
50°	66183
55°	47095
60°	40235
65°	46260
70°	49588
75°	47752
80°	43045
85°	39485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.8	6.3
10°-20°	694.0	18.5
20°-30°	991.6	26.4
30°-40°	885.8	23.6
40°-50°	454.3	12.1
50°-60°	206.5	5.5
60°-70°	154.0	4.1
70°-80°	104.8	2.8
80°-90°	31.1	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°	1924.3	51.2
0°-40°	2810.1	74.7
0°-60°	3470.9	92.3
0°-90°	3760.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3760.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2503	
5°	2505	239
15°	2470	694
25°	2174	992
35°	1440	886
45°	566	454
55°	219	206
65°	158	154
75°	100	105
85°	28	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2503.2
2.5°	2493.8
5°	2505.4
7.5°	2505.4
10°	2493.8
12.5°	2482.1
15°	2470.5
17.5°	2435.6
20°	2363.3
22.5°	2274.7
25°	2174.5
27.5°	2048.6
30°	1887.9
32.5°	1682.7
35°	1440.4
37.5°	1181.6
40°	934.6
42.5°	729.5
45°	566.3
47.5°	442.8
50°	344.9
52.5°	270.4
55°	219.0
57.5°	184.1
60°	163.1
62.5°	158.5
65°	158.5
67.5°	153.8
70°	137.5
72.5°	118.8
75°	100.2
77.5°	79.3
80°	60.6
82.5°	44.3
85°	27.9
87.5°	11.7
90°	0.0



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— 0°-180°







(END OF REPORT)