

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: P580544

Luminaire Tested: **HC440D010-HM43040827-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580544
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-HM43040827-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4055.2 lumens
Efficiency: N/A
Efficacy: 98.9 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

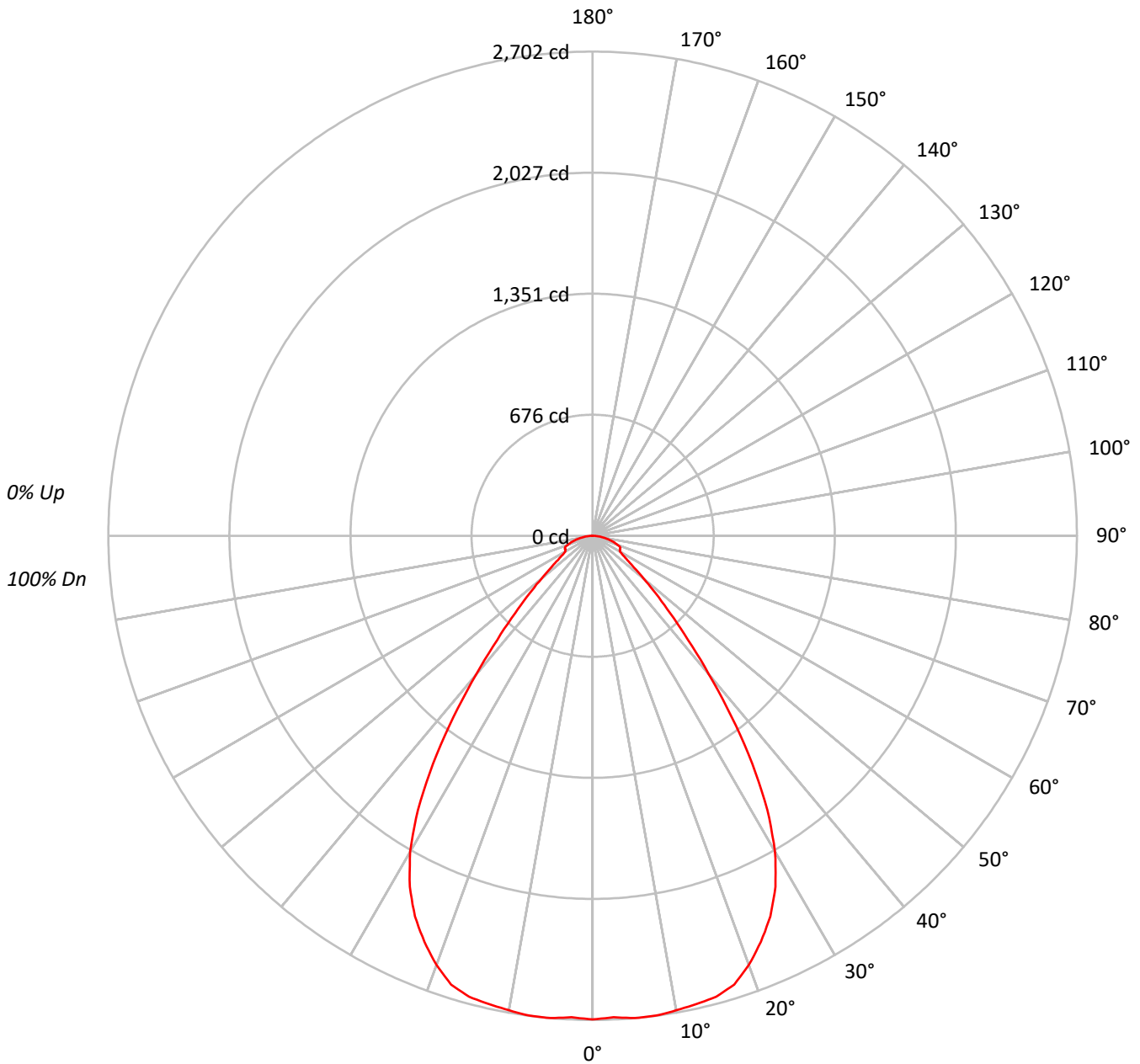
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	332910
5°	334503
10°	336806
15°	340159
20°	334494
25°	319106
30°	289925
35°	233846
40°	162272
45°	106529
50°	71365
55°	50794
60°	43393
65°	49850
70°	53483
75°	51517
80°	46455
85°	42740



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.5	6.3
10°-20°	748.3	18.5
20°-30°	1069.2	26.4
30°-40°	955.1	23.6
40°-50°	489.9	12.1
50°-60°	222.7	5.5
60°-70°	166.0	4.1
70°-80°	113.0	2.8
80°-90°	33.5	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°	2075.0	51.2
0°-40°	3030.1	74.7
0°-60°	3742.6	92.3
0°-90°	4055.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4055.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2699	
5°	2702	257
15°	2664	748
25°	2345	1069
35°	1553	955
45°	611	490
55°	236	223
65°	171	166
75°	108	113
85°	30	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2699.0
2.5°	2689.1
5°	2701.6
7.5°	2701.6
10°	2689.1
12.5°	2676.4
15°	2663.8
17.5°	2626.2
20°	2548.3
22.5°	2452.7
25°	2344.7
27.5°	2209.0
30°	2035.6
32.5°	1814.5
35°	1553.0
37.5°	1274.1
40°	1007.8
42.5°	786.6
45°	610.7
47.5°	477.4
50°	371.9
52.5°	291.6
55°	236.2
57.5°	198.5
60°	175.9
62.5°	170.8
65°	170.8
67.5°	165.9
70°	148.3
72.5°	128.1
75°	108.1
77.5°	85.4
80°	65.4
82.5°	47.8
85°	30.2
87.5°	12.6
90°	0.0



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— 0°-180°







(END OF REPORT)