

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: P580661

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580661
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-HM43040935-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3344.3 lumens
Efficiency: N/A
Efficacy: 81.6 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

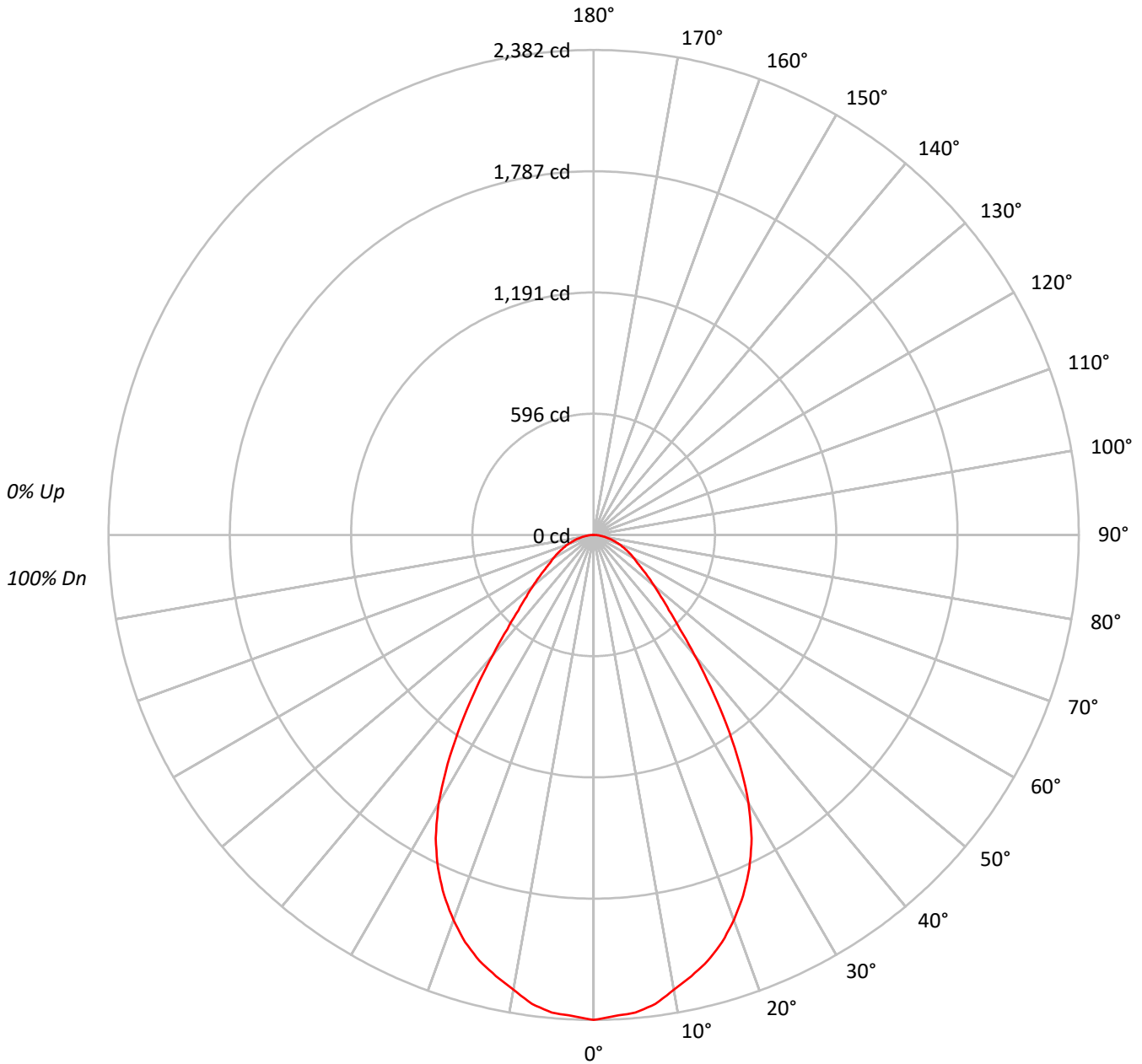
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	293809
5°	291613
10°	284038
15°	276553
20°	264164
25°	246118
30°	216703
35°	170920
40°	124063
45°	91161
50°	74166
55°	62191
60°	56369
65°	51805
70°	48217
75°	44035
80°	39707
85°	34390



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.1	6.6
10°-20°	607.4	18.2
20°-30°	823.4	24.6
30°-40°	706.6	21.1
40°-50°	417.2	12.5
50°-60°	264.4	7.9
60°-70°	177.6	5.3
70°-80°	98.1	2.9
80°-90°	27.5	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°	1652.9	49.4
0°-40°	2359.5	70.6
0°-60°	3041.1	90.9
0°-90°	3344.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3344.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2382	
5°	2355	222
15°	2166	607
25°	1808	823
35°	1135	707
45°	523	417
55°	289	264
65°	178	178
75°	92	98
85°	24	27
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2382.0
2.5°	2365.0
5°	2355.2
7.5°	2323.7
10°	2267.8
12.5°	2219.1
15°	2165.7
17.5°	2097.6
20°	2012.5
22.5°	1917.8
25°	1808.4
27.5°	1679.6
30°	1521.5
32.5°	1334.4
35°	1135.1
37.5°	943.1
40°	770.5
42.5°	627.1
45°	522.6
47.5°	447.3
50°	386.5
52.5°	335.4
55°	289.2
57.5°	252.8
60°	228.5
62.5°	204.1
65°	177.5
67.5°	155.6
70°	133.7
72.5°	111.8
75°	92.4
77.5°	72.9
80°	55.9
82.5°	38.9
85°	24.3
87.5°	9.8
90°	0.0



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— 0°-180°







(END OF REPORT)