

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: P580554

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC440D010-HM43040827-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3552.7 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

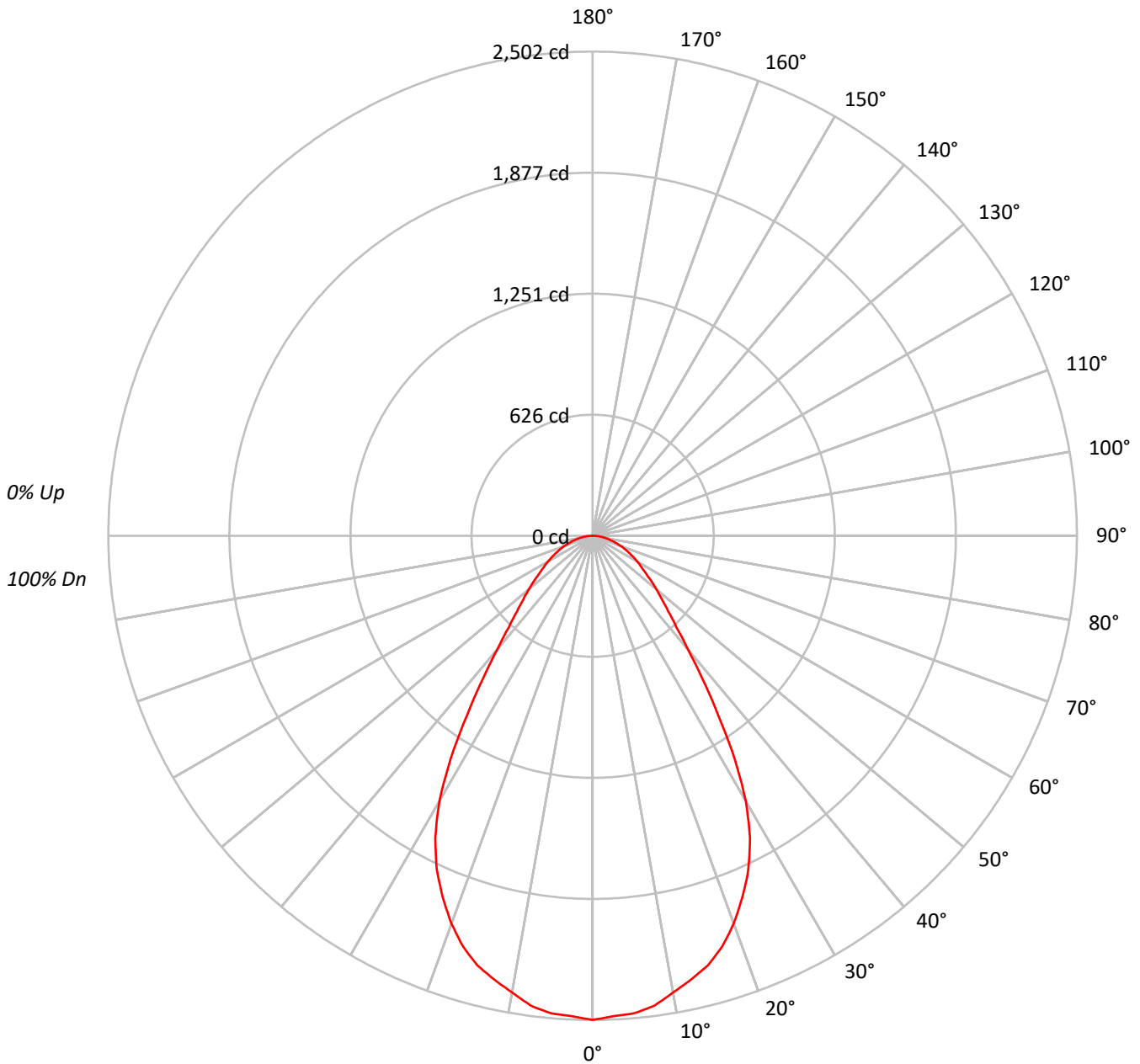
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	308586
5°	306657
10°	300145
15°	293498
20°	279929
25°	259128
30°	225391
35°	170197
40°	123355
45°	96411
50°	82437
55°	71309
60°	65669
65°	60094
70°	56151
75°	51517
80°	48160
85°	46137



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.9	6.6
10°-20°	643.8	18.1
20°-30°	865.7	24.4
30°-40°	711.8	20.0
40°-50°	437.2	12.3
50°-60°	302.5	8.5
60°-70°	206.2	5.8
70°-80°	114.9	3.2
80°-90°	36.5	1.0
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°	1743.5	49.1
0°-40°	2455.3	69.1
0°-60°	3195.0	89.9
0°-90°	3552.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3552.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2502	
5°	2477	234
15°	2298	644
25°	1904	866
35°	1130	712
45°	553	437
55°	332	303
65°	206	206
75°	108	115
85°	33	37
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2501.8
2.5°	2484.2
5°	2476.7
7.5°	2449.0
10°	2396.4
12.5°	2348.6
15°	2298.4
17.5°	2225.5
20°	2132.6
22.5°	2022.1
25°	1904.0
27.5°	1760.9
30°	1582.5
32.5°	1363.9
35°	1130.3
37.5°	929.4
40°	766.1
42.5°	640.5
45°	552.7
47.5°	484.8
50°	429.6
52.5°	379.3
55°	331.6
57.5°	296.4
60°	266.2
62.5°	236.1
65°	205.9
67.5°	180.8
70°	155.7
72.5°	130.6
75°	108.1
77.5°	85.4
80°	67.8
82.5°	50.2
85°	32.6
87.5°	17.6
90°	0.0



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— 0°-180°







(END OF REPORT)