

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: P580553

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580553
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-HM43040827-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3457.2 lumens
Efficiency: N/A
Efficacy: 84.3 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

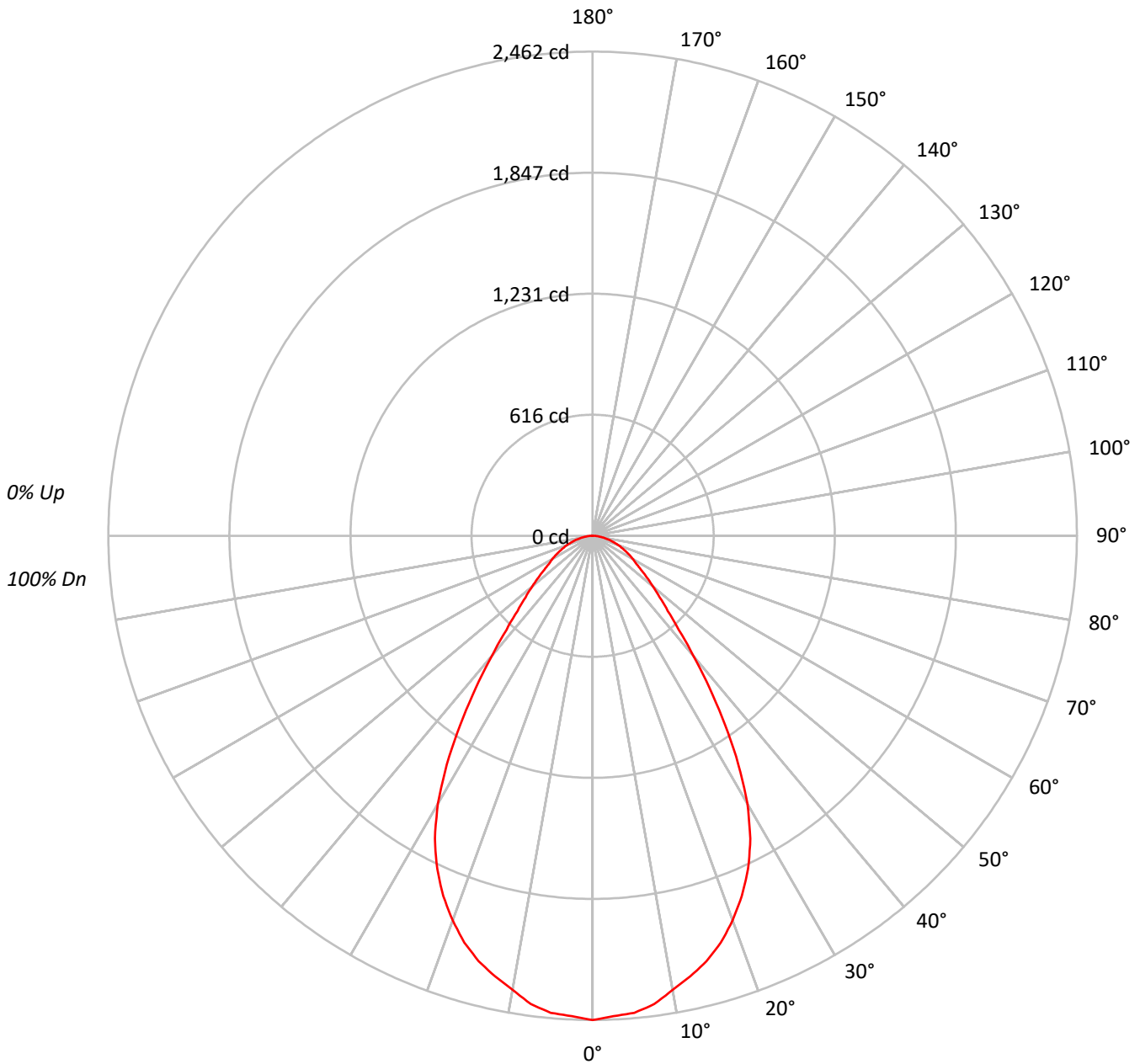
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580553

CATALOG NUMBER: HC440D010-HM43040827-41NDW

Luminous Intensity Polar Plot





TEST NUMBER: P580553

CATALOG NUMBER: HC440D010-HM43040827-41NDW

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	303739
5°	301469
10°	293620
15°	285900
20°	273103
25°	254433
30°	224038
35°	176702
40°	128266
45°	94231
50°	76661
55°	64299
60°	58268
65°	53527
70°	49840
75°	45513
80°	41056
85°	35522



TEST NUMBER: P580553

CATALOG NUMBER: HC440D010-HM43040827-41NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.6	6.6
10°-20°	628.0	18.2
20°-30°	851.3	24.6
30°-40°	730.5	21.1
40°-50°	431.3	12.5
50°-60°	273.3	7.9
60°-70°	183.7	5.3
70°-80°	101.4	2.9
80°-90°	28.4	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°	1708.8	49.4
0°-40°	2439.3	70.6
0°-60°	3143.9	90.9
0°-90°	3457.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3457.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2462	
5°	2435	230
15°	2239	628
25°	1870	851
35°	1174	730
45°	540	431
55°	299	273
65°	183	184
75°	96	101
85°	25	28
90°	0	



TEST NUMBER: P580553

CATALOG NUMBER: HC440D010-HM43040827-41NDW

CANDELA DISTRIBUTION (FULL):

0°	
0°	2462.5
2.5°	2444.9
5°	2434.8
7.5°	2402.2
10°	2344.3
12.5°	2294.1
15°	2238.9
17.5°	2168.5
20°	2080.6
22.5°	1982.6
25°	1869.5
27.5°	1736.3
30°	1573.0
32.5°	1379.5
35°	1173.5
37.5°	974.9
40°	796.6
42.5°	648.3
45°	540.2
47.5°	462.3
50°	399.5
52.5°	346.7
55°	299.0
57.5°	261.3
60°	236.2
62.5°	211.1
65°	183.4
67.5°	160.9
70°	138.2
72.5°	115.6
75°	95.5
77.5°	75.3
80°	57.8
82.5°	40.2
85°	25.1
87.5°	10.1
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)