

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: P579713

Luminaire Tested: **HC410D010-HM40525830-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579713
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: HC410D010-HM40525830-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1001.6 lumens
Efficiency: N/A
Efficacy: 101.2 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

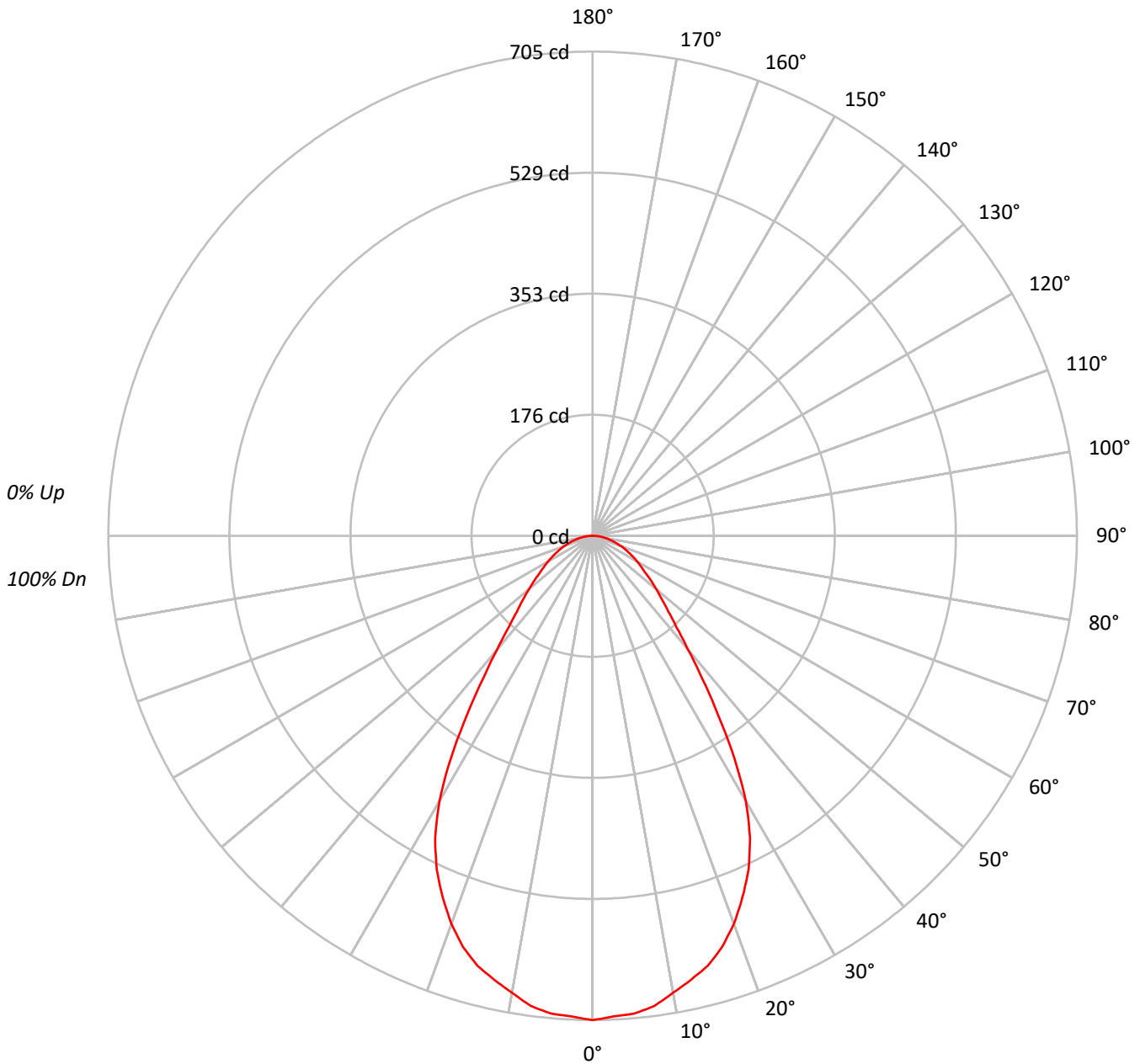
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P579713

CATALOG NUMBER: HC410D010-HM40525830-41PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P579713

CATALOG NUMBER: HC410D010-HM40525830-41PSMDW

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°	86996
5°	86461
10°	84618
15°	82748
20°	78915
25°	73057
30°	63537
35°	47974
40°	34780
45°	27177
50°	23238
55°	20085
60°	18527
65°	16928
70°	15832
75°	14535
80°	13567
85°	13020



TEST NUMBER: P579713

CATALOG NUMBER: HC410D010-HM40525830-41PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	6.6
10°-20°	181.5	18.1
20°-30°	244.1	24.4
30°-40°	200.7	20.0
40°-50°	123.3	12.3
50°-60°	85.3	8.5
60°-70°	58.1	5.8
70°-80°	32.4	3.2
80°-90°	10.3	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°	491.5	49.1
0°-40°	692.2	69.1
0°-60°	900.7	89.9
0°-90°	1001.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1001.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	705	
5°	698	66
15°	648	182
25°	537	244
35°	319	201
45°	156	123
55°	93	85
65°	58	58
75°	30	32
85°	9	10
90°	0	



TEST NUMBER: P579713

CATALOG NUMBER: HC410D010-HM40525830-41PSMDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	705.3
2.5°	700.4
5°	698.3
7.5°	690.4
10°	675.6
12.5°	662.1
15°	648.0
17.5°	627.5
20°	601.2
22.5°	570.0
25°	536.8
27.5°	496.4
30°	446.1
32.5°	384.5
35°	318.6
37.5°	262.0
40°	216.0
42.5°	180.6
45°	155.8
47.5°	136.7
50°	121.1
52.5°	107.0
55°	93.4
57.5°	83.5
60°	75.1
62.5°	66.6
65°	58.0
67.5°	51.0
70°	43.9
72.5°	36.9
75°	30.5
77.5°	24.1
80°	19.1
82.5°	14.1
85°	9.2
87.5°	5.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)