

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: P579929

Luminaire Tested: **HC415D010-HM40525930-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579929
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: HC415D010-HM40525930-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1196.8 lumens
Efficiency: N/A
Efficacy: 85.5 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

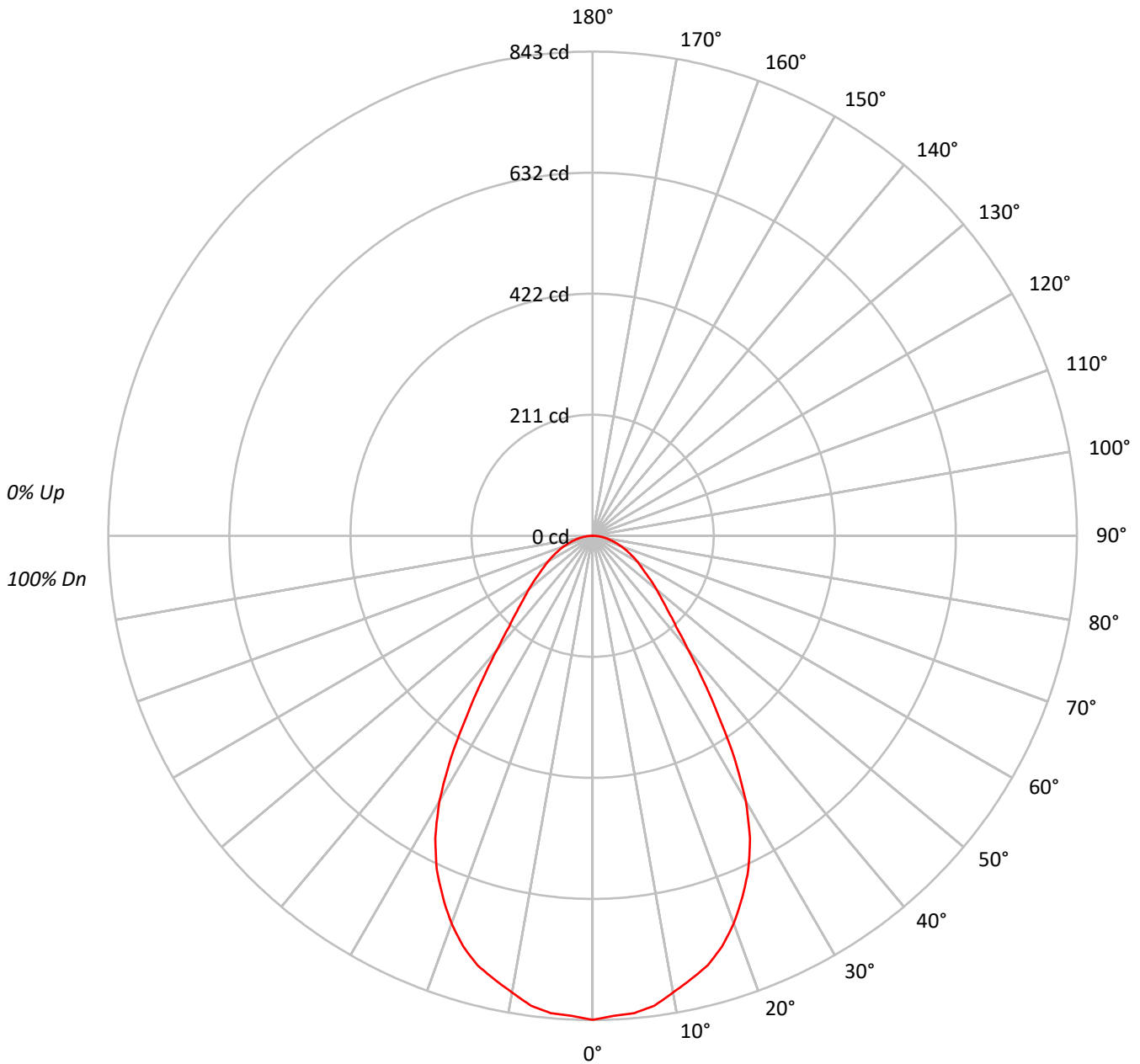
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P579929

CATALOG NUMBER: HC415D010-HM40525930-41PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P579929

CATALOG NUMBER: HC415D010-HM40525930-41PSMDW

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°	103943
5°	103300
10°	101113
15°	98863
20°	94298
25°	87293
30°	75914
35°	57340
40°	41558
45°	32463
50°	27767
55°	24021
60°	22128
65°	20255
70°	18897
75°	17347
80°	16266
85°	15568



TEST NUMBER: P579929

CATALOG NUMBER: HC415D010-HM40525930-41PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	6.6
10°-20°	216.9	18.1
20°-30°	291.6	24.4
30°-40°	239.8	20.0
40°-50°	147.3	12.3
50°-60°	101.9	8.5
60°-70°	69.5	5.8
70°-80°	38.7	3.2
80°-90°	12.3	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°	587.3	49.1
0°-40°	827.1	69.1
0°-60°	1076.3	89.9
0°-90°	1196.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1196.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	843	
5°	834	79
15°	774	217
25°	641	292
35°	381	240
45°	186	147
55°	112	102
65°	69	69
75°	36	39
85°	11	12
90°	0	



TEST NUMBER: P579929

CATALOG NUMBER: HC415D010-HM40525930-41PSMDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	842.7
2.5°	836.8
5°	834.3
7.5°	825.0
10°	807.3
12.5°	791.1
15°	774.2
17.5°	749.7
20°	718.4
22.5°	681.2
25°	641.4
27.5°	593.2
30°	533.0
32.5°	459.5
35°	380.8
37.5°	313.1
40°	258.1
42.5°	215.8
45°	186.1
47.5°	163.3
50°	144.7
52.5°	127.8
55°	111.7
57.5°	99.8
60°	89.7
62.5°	79.6
65°	69.4
67.5°	60.9
70°	52.4
72.5°	44.0
75°	36.4
77.5°	28.8
80°	22.9
82.5°	16.9
85°	11.0
87.5°	5.9
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)