

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: P581436

Luminaire Tested: **HC407D010-HM40525830-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581436
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: HC407D010-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: 808.7 lumens
Efficiency: N/A
Efficacy: 101.1 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

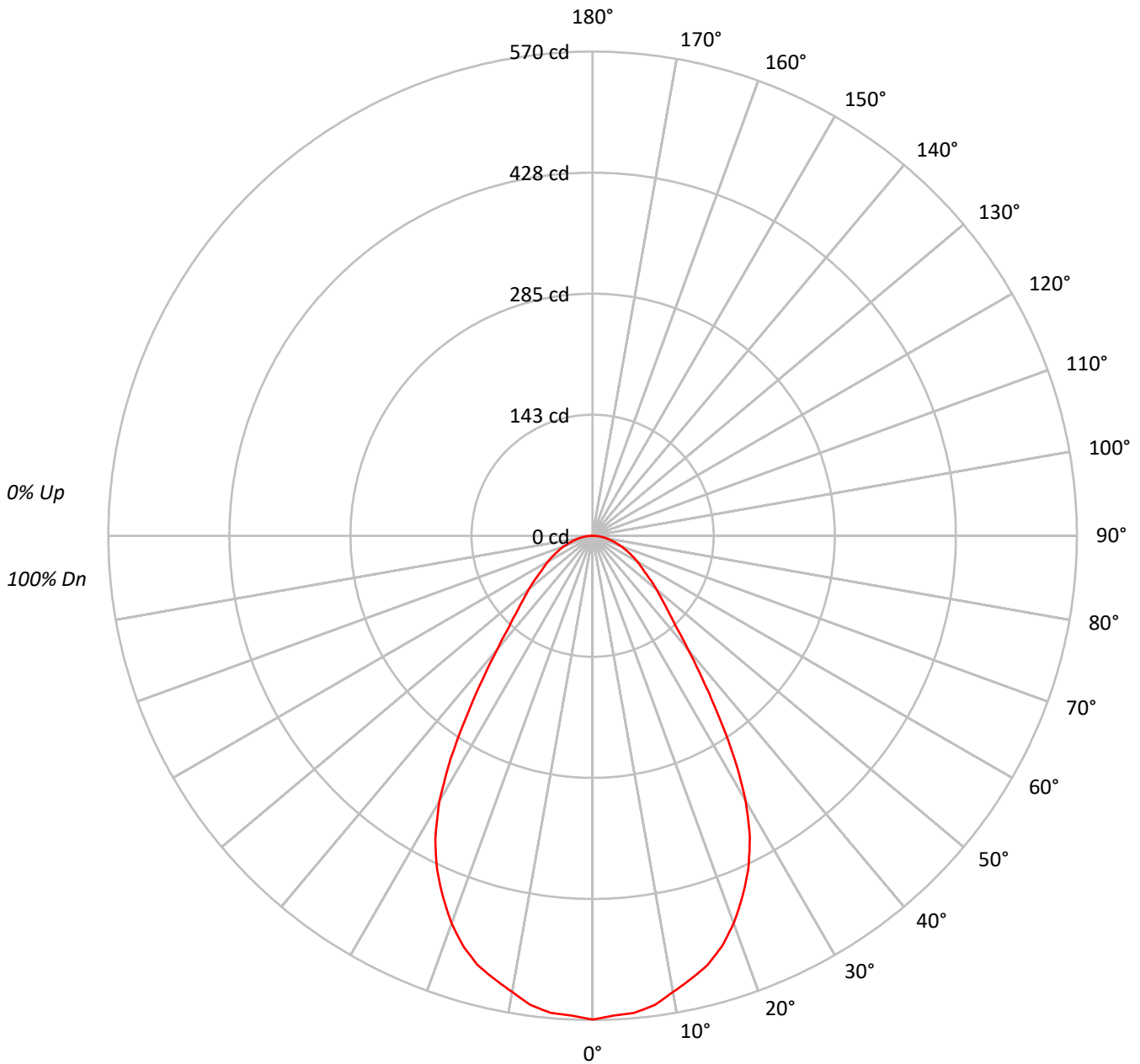
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581436

CATALOG NUMBER: HC407D010-HM40525830-41PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P581436

CATALOG NUMBER: HC407D010-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°	70245
5°	69796
10°	68310
15°	66798
20°	63714
25°	58984
30°	51302
35°	38744
40°	28065
45°	21927
50°	18767
55°	16215
60°	14974
65°	13688
70°	12767
75°	11724
80°	11010
85°	10473



TEST NUMBER: P581436

CATALOG NUMBER: HC407D010-HM40525830-41PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	6.6
10°-20°	146.5	18.1
20°-30°	197.0	24.4
30°-40°	162.0	20.0
40°-50°	99.5	12.3
50°-60°	68.9	8.5
60°-70°	47.0	5.8
70°-80°	26.2	3.2
80°-90°	8.3	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°	396.8	49.1
0°-40°	558.8	69.1
0°-60°	727.2	89.9
0°-90°	808.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	808.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	570	
5°	564	53
15°	523	147
25°	433	197
35°	257	162
45°	126	99
55°	75	69
65°	47	47
75°	25	26
85°	7	8
90°	0	



TEST NUMBER: P581436

CATALOG NUMBER: HC407D010-HM40525830-41PSMDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	569.5
2.5°	565.4
5°	563.7
7.5°	557.4
10°	545.4
12.5°	534.5
15°	523.1
17.5°	506.5
20°	485.4
22.5°	460.2
25°	433.4
27.5°	400.8
30°	360.2
32.5°	310.4
35°	257.3
37.5°	211.6
40°	174.3
42.5°	145.8
45°	125.7
47.5°	110.4
50°	97.8
52.5°	86.4
55°	75.4
57.5°	67.5
60°	60.7
62.5°	53.7
65°	46.9
67.5°	41.2
70°	35.4
72.5°	29.7
75°	24.6
77.5°	19.5
80°	15.5
82.5°	11.4
85°	7.4
87.5°	4.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)