

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: P581429

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC407D010-HM40525830-41WDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 913.2 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

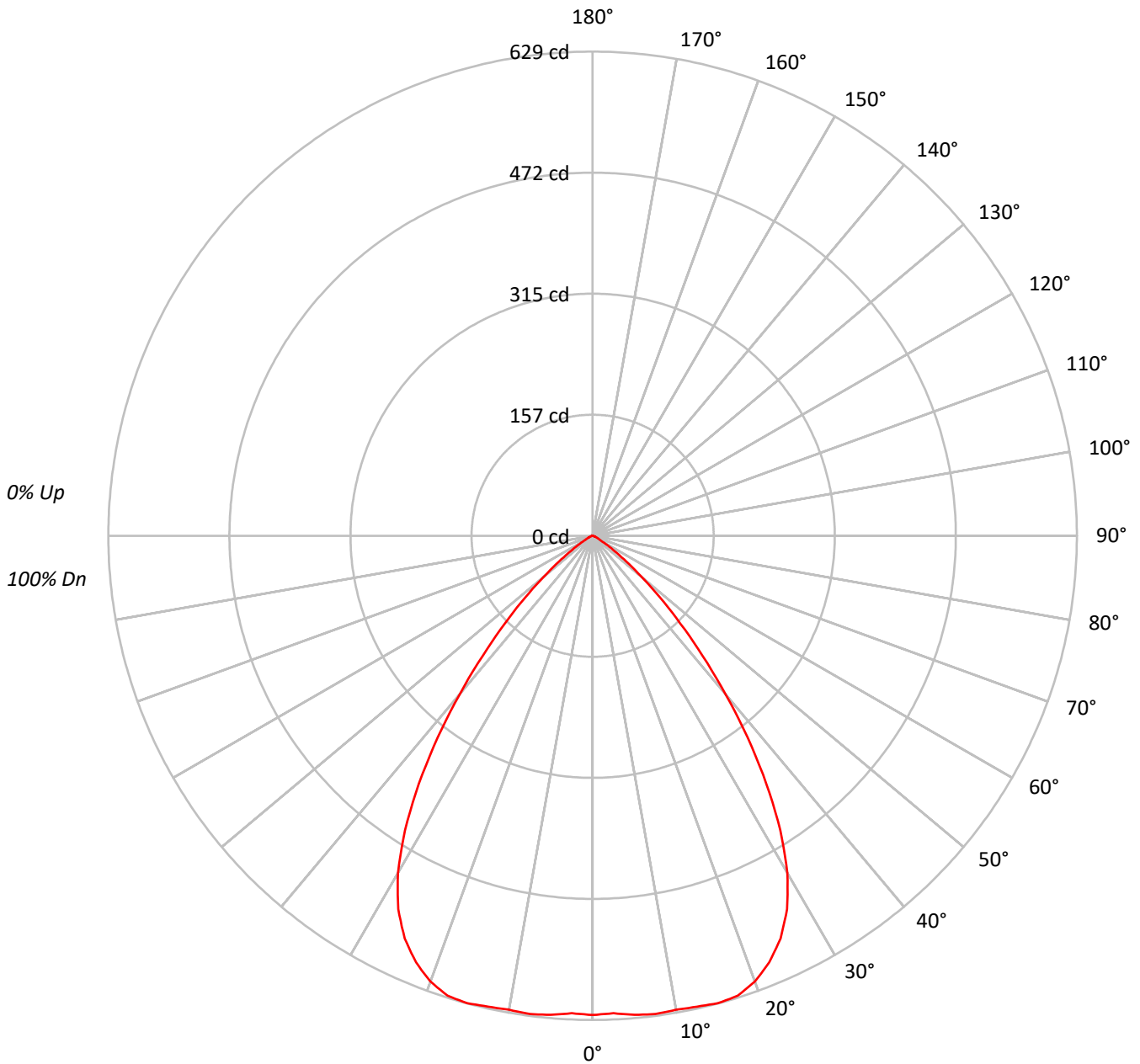
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581429

CATALOG NUMBER: HC407D010-HM40525830-41WDH

Luminous Intensity Polar Plot





TEST NUMBER: P581429

CATALOG NUMBER: HC407D010-HM40525830-41WDH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92				92															
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84				84															
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76				76															
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69				69															
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63				63															
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58				58															
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53				53															
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49				49															
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45				45															
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42				42															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	76783
5°	77361
10°	78318
15°	80283
20°	80883
25°	78569
30°	72025
35°	59267
40°	43201
45°	28049
50°	15812
55°	7505
60°	2985
65°	1839
70°	1226
75°	810
80°	426
85°	849



TEST NUMBER: P581429

CATALOG NUMBER: HC407D010-HM40525830-41WDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.7	6.5
10°-20°	177.3	19.4
20°-30°	262.9	28.8
30°-40°	242.8	26.6
40°-50°	126.8	13.9
50°-60°	34.8	3.8
60°-70°	6.7	0.7
70°-80°	1.9	0.2
80°-90°	0.4	0.0
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°	499.8	54.7
0°-40°	742.7	81.3
0°-60°	904.3	99.0
0°-90°	913.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	913.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	622	
5°	625	60
15°	629	177
25°	577	263
35°	394	243
45°	161	127
55°	35	35
65°	6	7
75°	2	2
85°	1	0
90°	0	



TEST NUMBER: P581429

CATALOG NUMBER: HC407D010-HM40525830-41WDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	622.5
2.5°	620.8
5°	624.8
7.5°	626.5
10°	625.3
12.5°	626.5
15°	628.7
17.5°	626.5
20°	616.2
22.5°	599.6
25°	577.3
27.5°	546.9
30°	505.7
32.5°	453.7
35°	393.6
37.5°	330.7
40°	268.3
42.5°	211.1
45°	160.8
47.5°	117.9
50°	82.4
52.5°	55.0
55°	34.9
57.5°	20.6
60°	12.1
62.5°	8.5
65°	6.3
67.5°	4.6
70°	3.4
72.5°	2.3
75°	1.7
77.5°	1.1
80°	0.6
82.5°	0.6
85°	0.6
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)