

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: P593274

Luminaire Tested: **HC640D010-HM63040850-61MDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040850-61MDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5210.3 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.96
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

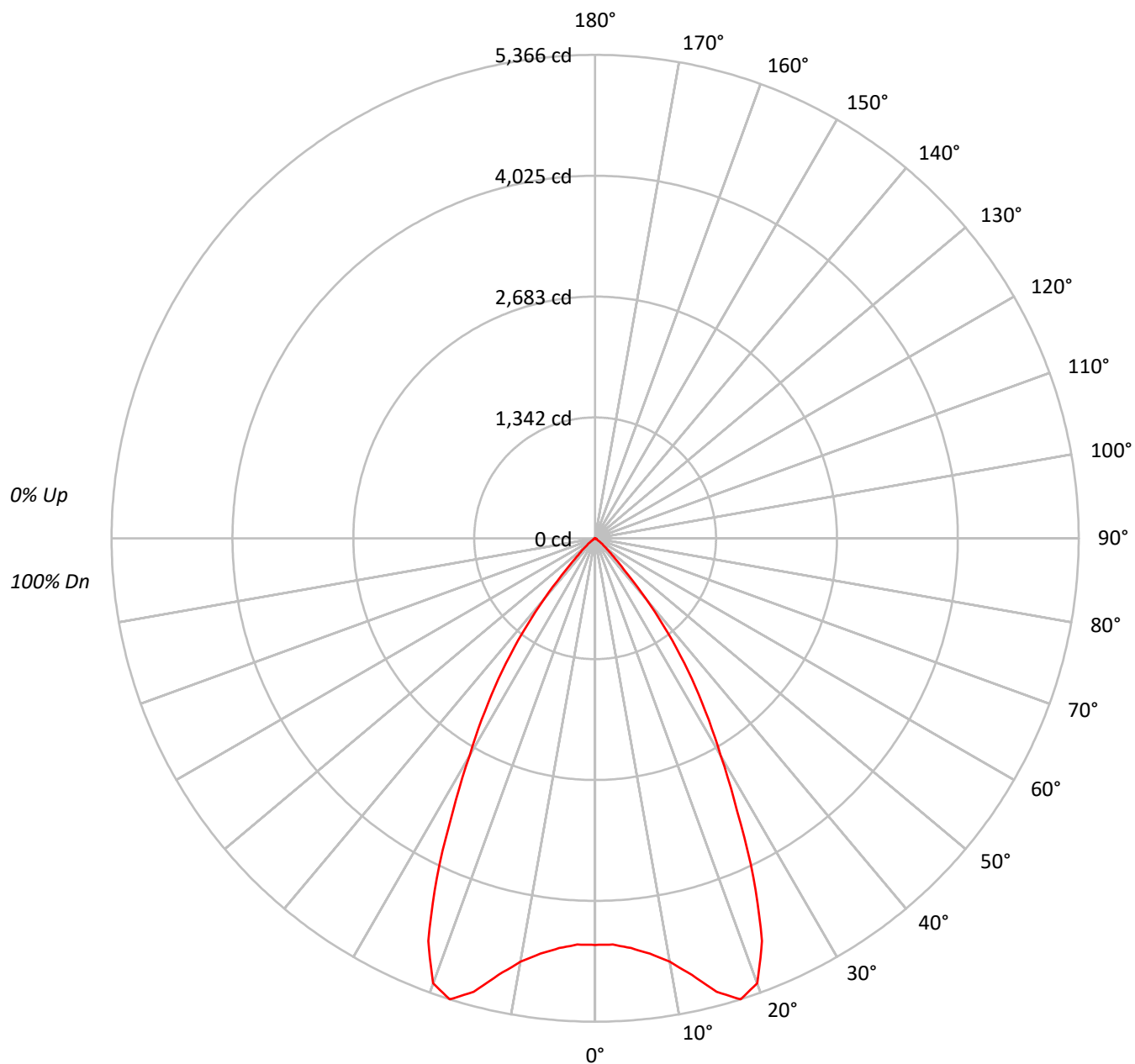
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P593274

CATALOG NUMBER: HC640D010-HM63040850-61MDC

Luminous Intensity Polar Plot





TEST NUMBER: P593274

CATALOG NUMBER: HC640D010-HM63040850-61MDC

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	114	111	108	106	111	109	106	104	105	103	101		101	99	98		97
2	108	103	99	96	106	101	98	95	98	95	93		95	93	91		92
3	102	96	91	87	100	95	90	86	92	88	85		90	86	84		87
4	97	90	84	80	95	89	83	79	86	82	79		84	81	78		83
5	92	84	78	74	91	83	78	73	81	76	73		80	75	72		78
6	88	79	73	68	86	78	72	68	76	71	68		75	71	67		74
7	83	74	68	64	82	73	68	63	72	67	63		71	66	63		70
8	79	70	63	59	78	69	63	59	68	63	59		67	62	59		66
9	75	66	60	56	74	65	59	55	64	59	55		63	58	55		62
10	72	62	56	52	71	61	56	52	61	55	52		60	55	52		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	247425
5°	251276
10°	265587
15°	295722
20°	306679
25°	251621
30°	176312
35°	120288
40°	62660
45°	22026
50°	9867
55°	3164
60°	1809
65°	1284
70°	1058
75°	699
80°	0
85°	0



TEST NUMBER: P593274

CATALOG NUMBER: HC640D010-HM63040850-61MDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.3	8.5
10°-20°	1465.4	28.1
20°-30°	1865.9	35.8
30°-40°	1112.0	21.3
40°-50°	269.7	5.2
50°-60°	41.4	0.8
60°-70°	10.2	0.2
70°-80°	3.5	0.1
80°-90°	0.0	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°	3773.6	72.4
0°-40°	4885.6	93.8
0°-60°	5196.7	99.7
0°-90°	5210.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5210.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4513	
5°	4566	442
15°	5211	1465
25°	4160	1866
35°	1797	1112
45°	284	270
55°	33	41
65°	10	10
75°	3	3
85°	0	0
90°	0	



TEST NUMBER: P593274

CATALOG NUMBER: HC640D010-HM63040850-61MDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	4513.4
2.5°	4513.4
5°	4566.2
7.5°	4648.8
10°	4771.1
12.5°	4962.7
15°	5210.6
17.5°	5365.8
20°	5256.9
22.5°	4837.2
25°	4159.9
27.5°	3413.2
30°	2785.3
32.5°	2276.6
35°	1797.4
37.5°	1324.9
40°	875.6
42.5°	472.5
45°	284.1
47.5°	178.5
50°	115.7
52.5°	69.4
55°	33.1
57.5°	19.8
60°	16.5
62.5°	13.2
65°	9.9
67.5°	6.6
70°	6.6
72.5°	3.3
75°	3.3
77.5°	3.3
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)