

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: P582595

Luminaire Tested: **HC645D010-HM64560835-61MDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582595
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: HC645D010-HM64560835-61MDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5429.3 lumens
Efficiency: N/A
Efficacy: 123.4 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

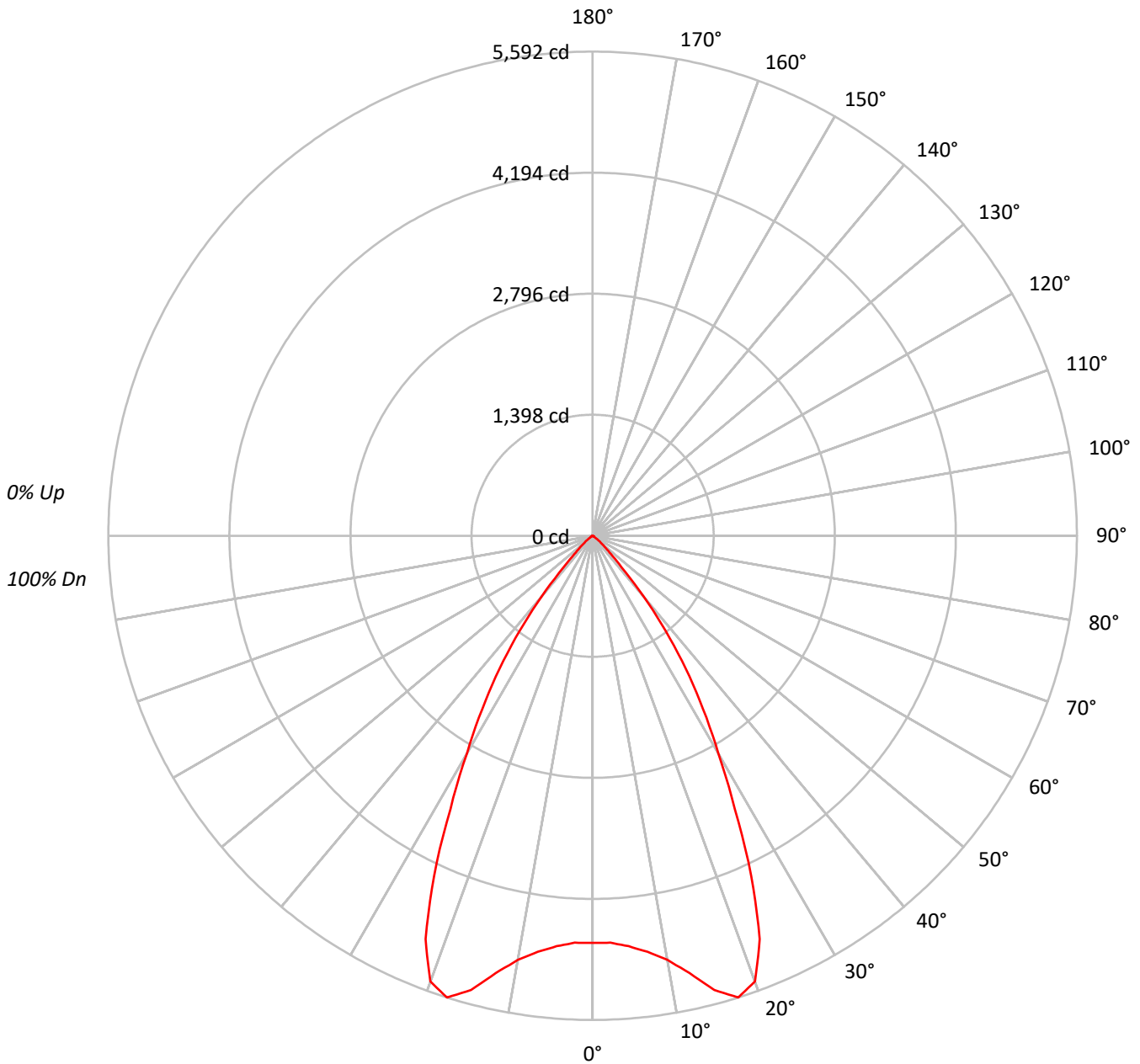
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P582595

CATALOG NUMBER: HC645D010-HM64560835-61MDC

Luminous Intensity Polar Plot





TEST NUMBER: P582595

CATALOG NUMBER: HC645D010-HM64560835-61MDC

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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	89	83	79	86	82	79	84	81	78	83	79	77	75			
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70			
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	68	63	72	67	63	71	66	63	70	66	62	61			
8	79	70	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57			
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54			
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	257825
5°	261847
10°	276760
15°	308157
20°	319572
25°	262201
30°	183731
35°	125347
40°	65294
45°	22956
50°	10277
55°	3297
60°	1886
65°	1336
70°	1106
75°	720
80°	0
85°	0



TEST NUMBER: P582595

CATALOG NUMBER: HC645D010-HM64560835-61MDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.9	8.5
10°-20°	1527.0	28.1
20°-30°	1944.3	35.8
30°-40°	1158.8	21.3
40°-50°	281.0	5.2
50°-60°	43.1	0.8
60°-70°	10.6	0.2
70°-80°	3.6	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°	3932.3	72.4
0°-40°	5091.1	93.8
0°-60°	5415.2	99.7
0°-90°	5429.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5429.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4703	
5°	4758	461
15°	5430	1527
25°	4335	1944
35°	1873	1159
45°	296	281
55°	34	43
65°	10	11
75°	3	4
85°	0	0
90°	0	



TEST NUMBER: P582595

CATALOG NUMBER: HC645D010-HM64560835-61MDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	4703.1
2.5°	4703.1
5°	4758.3
7.5°	4844.4
10°	4971.8
12.5°	5171.4
15°	5429.7
17.5°	5591.5
20°	5477.9
22.5°	5040.6
25°	4334.8
27.5°	3556.7
30°	2902.5
32.5°	2372.3
35°	1873.0
37.5°	1380.6
40°	912.4
42.5°	492.3
45°	296.1
47.5°	185.9
50°	120.5
52.5°	72.3
55°	34.5
57.5°	20.6
60°	17.2
62.5°	13.7
65°	10.3
67.5°	6.9
70°	6.9
72.5°	3.4
75°	3.4
77.5°	3.4
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)