

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: P582601

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC645D010-HM64560835-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4875.2 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

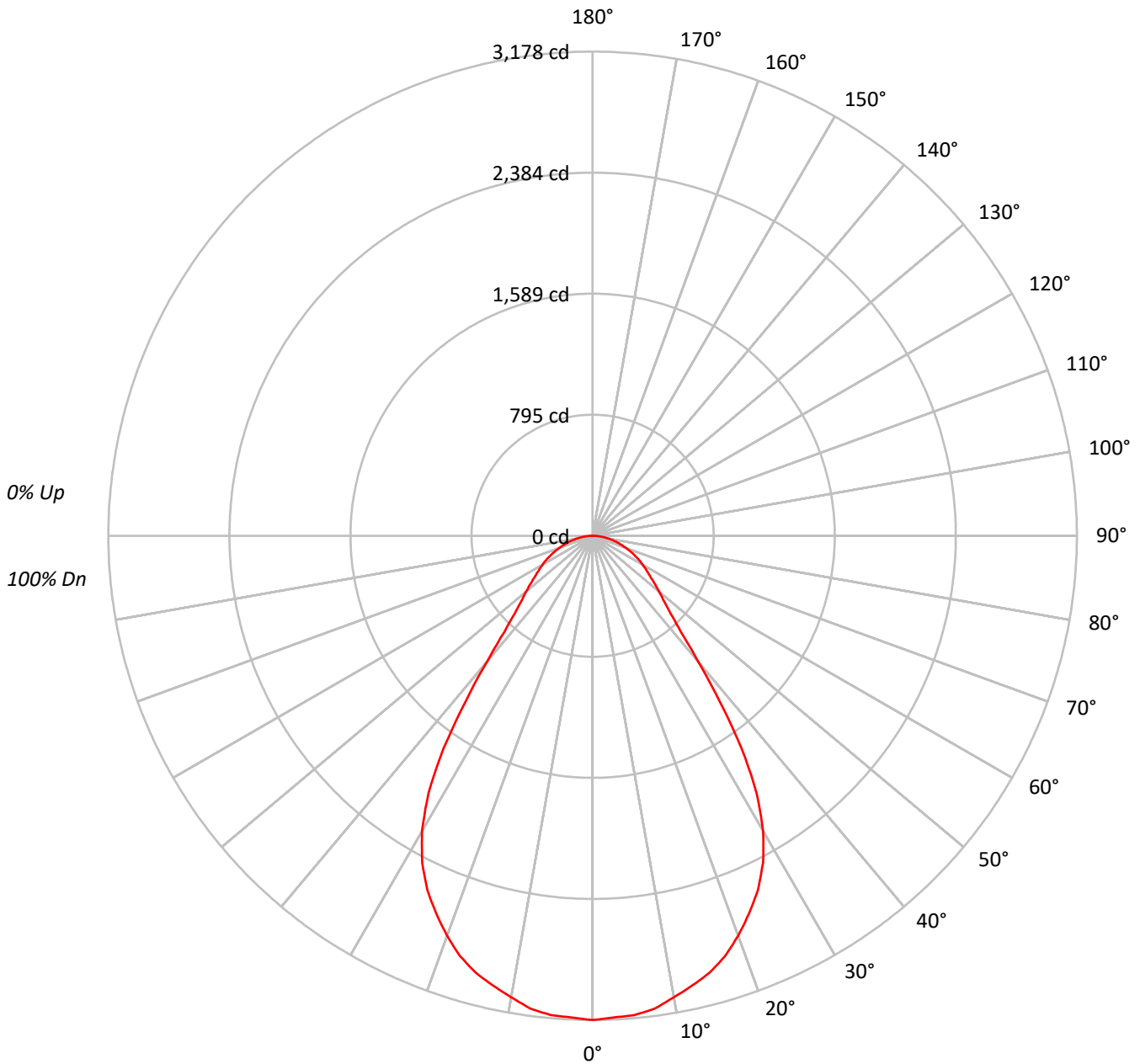
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P582601

CATALOG NUMBER: HC645D010-HM64560835-61PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P582601

CATALOG NUMBER: HC645D010-HM64560835-61PSMDW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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				100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78				78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				69
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62				62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56				56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51				51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43				43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	174246
5°	173772
10°	171189
15°	168474
20°	162927
25°	155186
30°	141693
35°	114077
40°	76894
45°	56068
50°	48459
55°	43783
60°	41532
65°	39317
70°	36977
75°	35012
80°	32611
85°	30317



TEST NUMBER: P582601

CATALOG NUMBER: HC645D010-HM64560835-61PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.9	6.1
10°-20°	833.6	17.1
20°-30°	1171.2	24.0
30°-40°	1042.5	21.4
40°-50°	582.6	12.0
50°-60°	415.1	8.5
60°-70°	302.0	6.2
70°-80°	174.8	3.6
80°-90°	54.4	1.1
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°	2303.7	47.3
0°-40°	3346.2	68.6
0°-60°	4344.0	89.1
0°-90°	4875.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4875.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3178	
5°	3158	299
15°	2968	834
25°	2566	1171
35°	1705	1043
45°	723	583
55°	458	415
65°	303	302
75°	165	175
85°	48	54
90°	0	



TEST NUMBER: P582601

CATALOG NUMBER: HC645D010-HM64560835-61PSMDW

CANDELA DISTRIBUTION (FULL):

0°	
0°	3178.5
2.5°	3164.8
5°	3157.8
7.5°	3130.3
10°	3075.3
12.5°	3023.5
15°	2968.5
17.5°	2892.7
20°	2792.8
22.5°	2682.7
25°	2565.6
27.5°	2421.0
30°	2238.4
32.5°	2004.2
35°	1704.6
37.5°	1367.1
40°	1074.5
42.5°	857.5
45°	723.2
47.5°	633.7
50°	568.2
52.5°	509.7
55°	458.1
57.5°	416.6
60°	378.8
62.5°	344.4
65°	303.1
67.5°	268.6
70°	230.7
72.5°	196.2
75°	165.3
77.5°	134.3
80°	103.3
82.5°	75.8
85°	48.2
87.5°	24.2
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)