

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: P582563

Luminaire Tested: **HC645D010-HM64560827-61NDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC645D010-HM64560827-61NDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4430.1 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

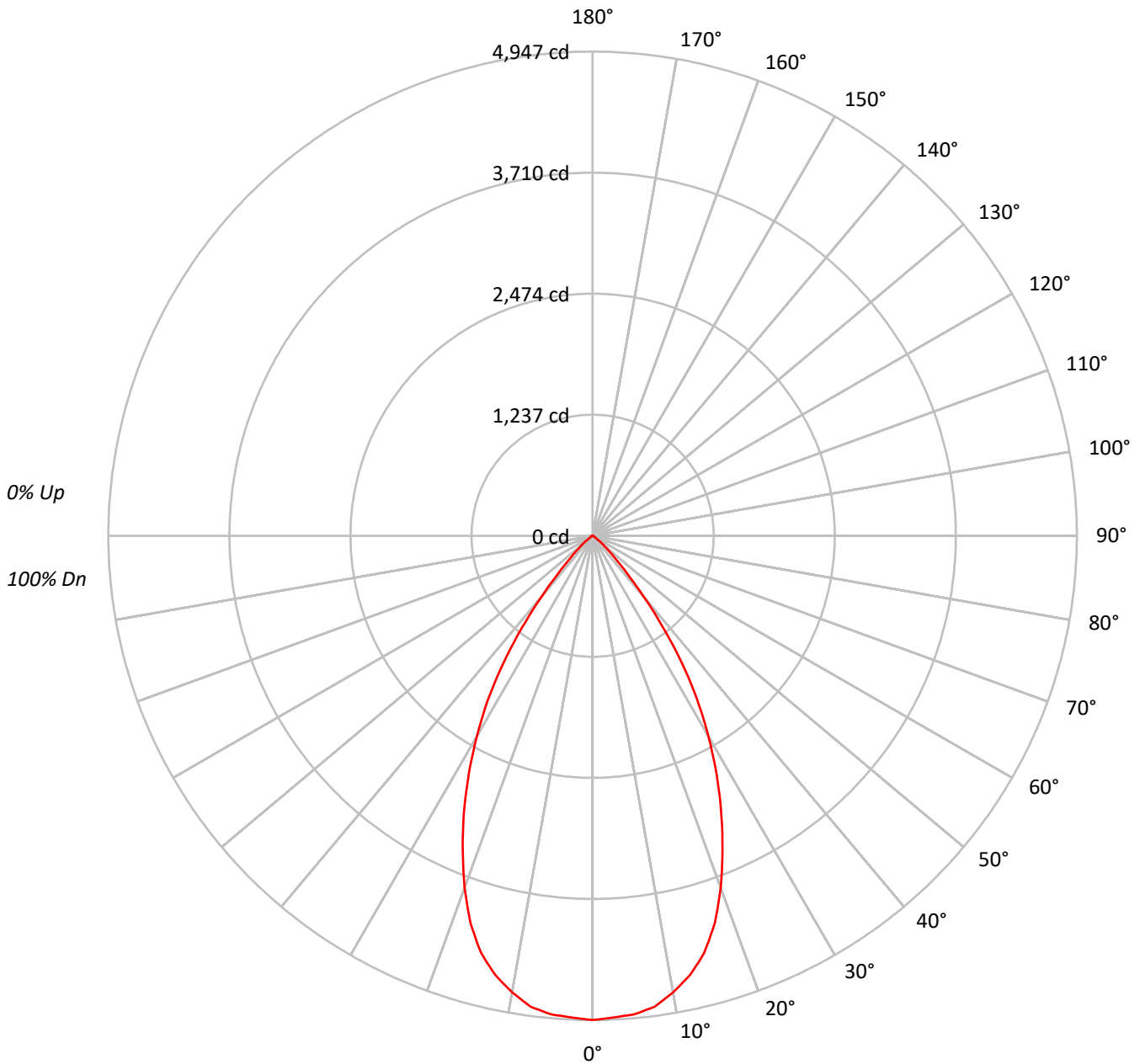
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P582563

CATALOG NUMBER: HC645D010-HM64560827-61NDH

Luminous Intensity Polar Plot





TEST NUMBER: P582563

CATALOG NUMBER: HC645D010-HM64560827-61NDH

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	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	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	88	83	79	86	82	78	84	81	78	82	79	77	75			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	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	67	63	72	67	63	71	66	63	70	66	62	61			
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	59	57			
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54			
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	271195
5°	270052
10°	263661
15°	250280
20°	223086
25°	187922
30°	149713
35°	106816
40°	57443
45°	24607
50°	11198
55°	4081
60°	2006
65°	1583
70°	1459
75°	635
80°	947
85°	0



TEST NUMBER: P582563

CATALOG NUMBER: HC645D010-HM64560827-61NDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.2	10.5
10°-20°	1222.4	27.6
20°-30°	1415.8	32.0
30°-40°	979.0	22.1
40°-50°	282.7	6.4
50°-60°	48.6	1.1
60°-70°	12.4	0.3
70°-80°	4.8	0.1
80°-90°	1.2	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°	3101.4	70.0
0°-40°	4080.4	92.1
0°-60°	4411.7	99.6
0°-90°	4430.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4430.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4947	
5°	4907	463
15°	4410	1222
25°	3107	1416
35°	1596	979
45°	317	283
55°	43	49
65°	12	12
75°	3	5
85°	0	1
90°	0	



TEST NUMBER: P582563

CATALOG NUMBER: HC645D010-HM64560827-61NDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	4947.0
2.5°	4925.7
5°	4907.4
7.5°	4852.5
10°	4736.5
12.5°	4596.0
15°	4409.9
17.5°	4147.5
20°	3824.0
22.5°	3466.9
25°	3106.8
27.5°	2737.5
30°	2365.1
32.5°	1992.8
35°	1596.1
37.5°	1184.1
40°	802.7
42.5°	506.6
45°	317.4
47.5°	204.5
50°	131.3
52.5°	79.3
55°	42.7
57.5°	24.4
60°	18.3
62.5°	15.2
65°	12.2
67.5°	9.1
70°	9.1
72.5°	6.1
75°	3.0
77.5°	3.0
80°	3.0
82.5°	3.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)