

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: P582677

Luminaire Tested: **HC645D010-HM64560935-61WDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC645D010-HM64560935-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4946.4 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

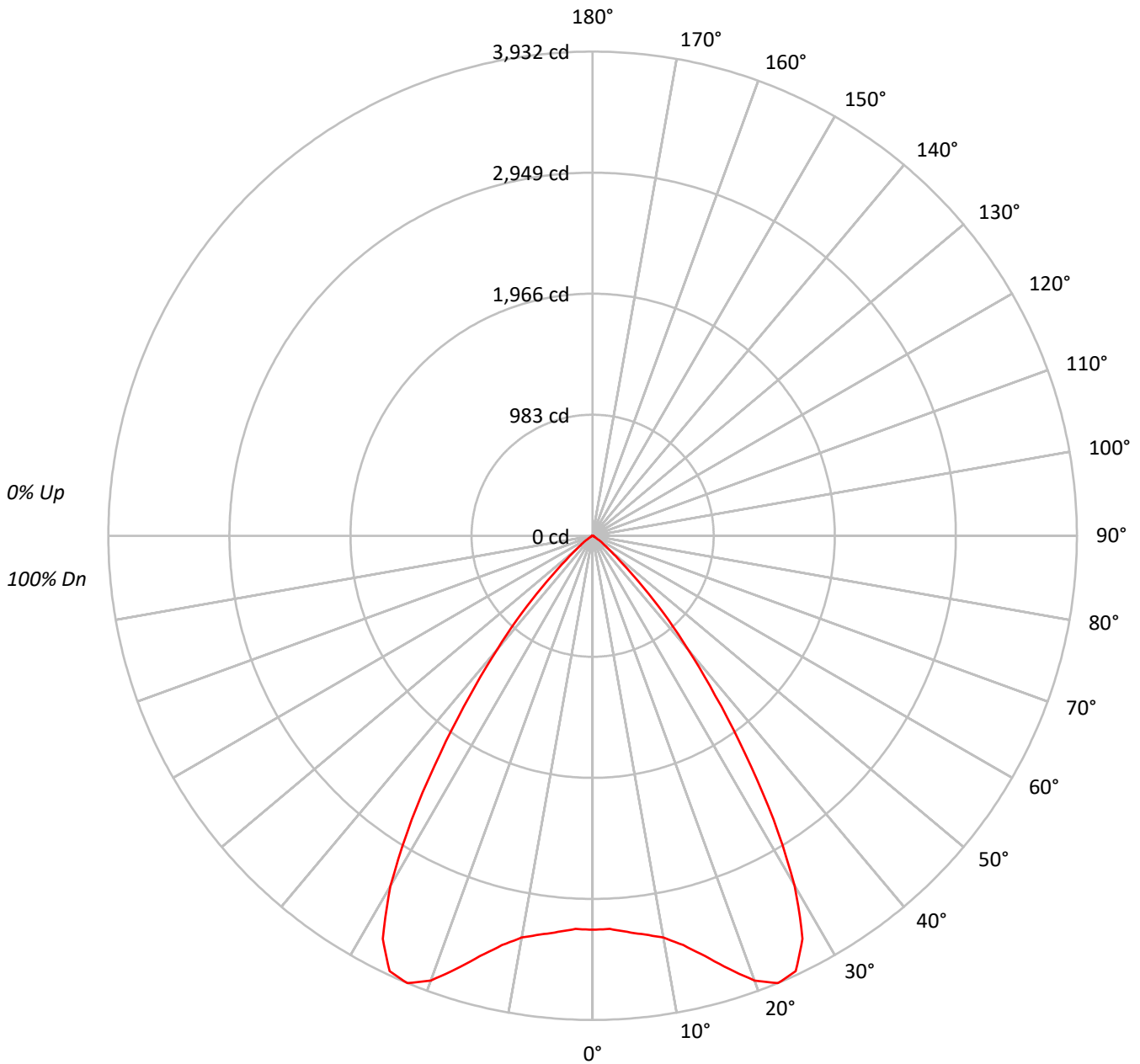
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P582677

CATALOG NUMBER: HC645D010-HM64560935-61WDC

Luminous Intensity Polar Plot





TEST NUMBER: P582677

CATALOG NUMBER: HC645D010-HM64560935-61WDC

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			100
1	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93			93
2	107	102	97	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	82	88	84	81	85	82	80	78			78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	74	72			72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66			66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61			61
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56			56
8	76	65	59	54	74	65	59	54	64	58	54	62	57	54	61	57	53	52			52
9	71	61	55	50	70	60	54	50	60	54	50	59	53	50	58	53	50	48			48
10	68	57	51	47	67	57	51	47	56	50	46	55	50	46	54	50	46	45			45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	175364
5°	177718
10°	184382
15°	200523
20°	224194
25°	235973
30°	207734
35°	144085
40°	86033
45°	40896
50°	15437
55°	6442
60°	2017
65°	1596
70°	978
75°	635
80°	947
85°	0



TEST NUMBER: P582677

CATALOG NUMBER: HC645D010-HM64560935-61WDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.8	6.3
10°-20°	1014.5	20.5
20°-30°	1738.4	35.1
30°-40°	1350.1	27.3
40°-50°	446.3	9.0
50°-60°	68.5	1.4
60°-70°	12.1	0.2
70°-80°	4.4	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°	3063.8	61.9
0°-40°	4413.9	89.2
0°-60°	4928.7	99.6
0°-90°	4946.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4946.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3199	
5°	3230	311
15°	3533	1015
25°	3901	1738
35°	2153	1350
45°	528	446
55°	67	68
65°	12	12
75°	3	4
85°	0	1
90°	0	



TEST NUMBER: P582677

CATALOG NUMBER: HC645D010-HM64560935-61WDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	3198.9
2.5°	3195.8
5°	3229.5
7.5°	3266.3
10°	3312.3
12.5°	3404.4
15°	3533.2
17.5°	3689.6
20°	3843.0
22.5°	3931.9
25°	3901.2
27.5°	3689.6
30°	3281.7
32.5°	2732.7
35°	2153.0
37.5°	1634.7
40°	1202.2
42.5°	849.6
45°	527.5
47.5°	294.4
50°	181.0
52.5°	110.4
55°	67.4
57.5°	33.8
60°	18.4
62.5°	15.4
65°	12.3
67.5°	9.1
70°	6.1
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)