

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: P582605

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582605  
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-HM64560835-61WDC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5553.3 lumens  
Efficiency: N/A  
Efficacy: 126.2 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

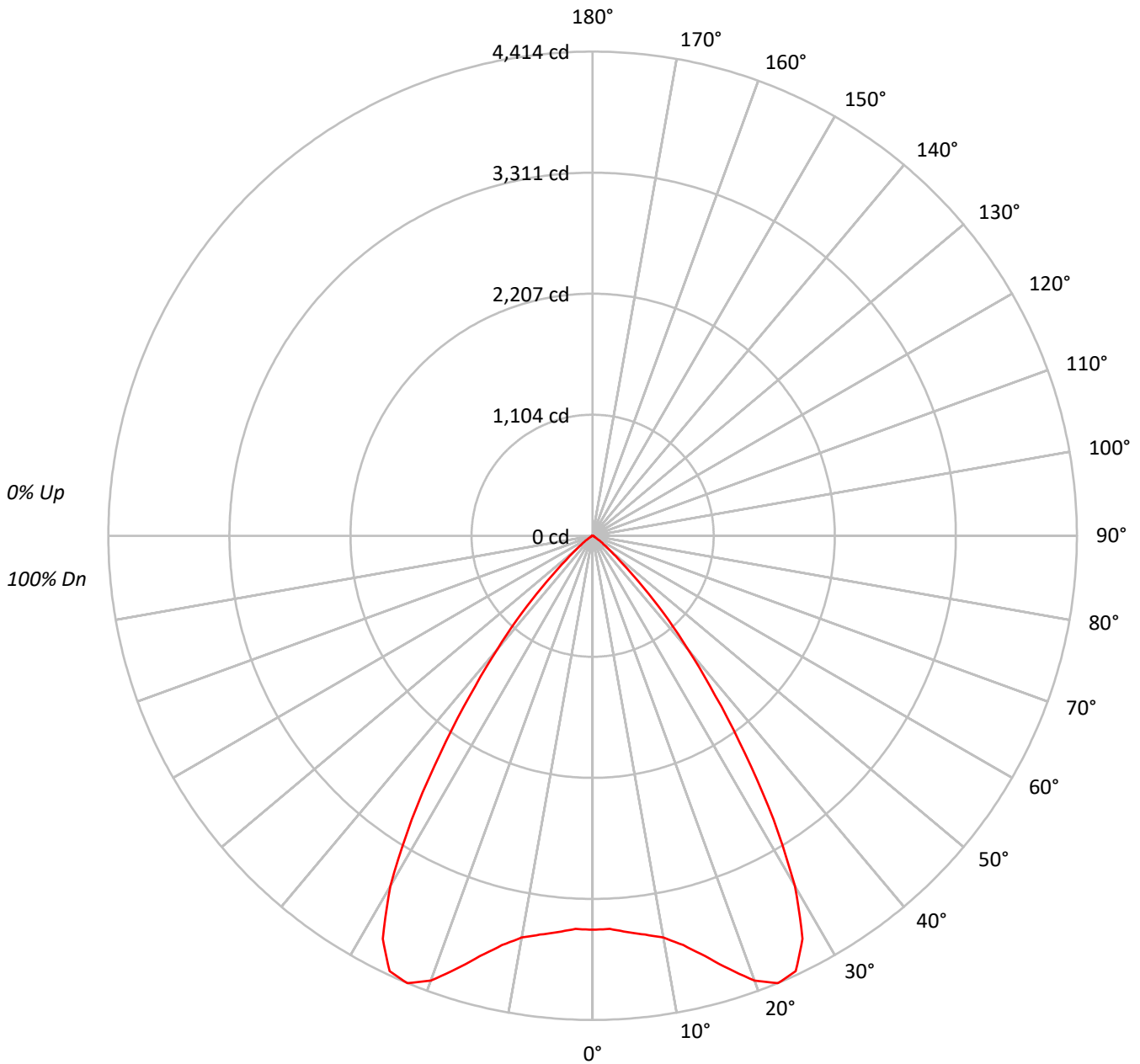
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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°	196881
5°	199521
10°	207010
15°	225120
20°	251695
25°	264929
30°	233219
35°	161766
40°	96595
45°	45912
50°	17330
55°	7245
60°	2259
65°	1777
70°	1106
75°	720
80°	1073
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	349.0	6.3
10°-20°	1139.0	20.5
20°-30°	1951.7	35.1
30°-40°	1515.8	27.3
40°-50°	501.1	9.0
50°-60°	76.9	1.4
60°-70°	13.5	0.2
70°-80°	5.0	0.1
80°-90°	1.4	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°	3439.7	61.9
0°-40°	4955.5	89.2
0°-60°	5533.4	99.6
0°-90°	5553.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5553.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3591	
5°	3626	349
15°	3967	1139
25°	4380	1952
35°	2417	1516
45°	592	501
55°	76	77
65°	14	14
75°	3	5
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3591.4
2.5°	3587.9
5°	3625.7
7.5°	3667.1
10°	3718.8
12.5°	3822.1
15°	3966.6
17.5°	4142.3
20°	4314.4
22.5°	4414.4
25°	4379.9
27.5°	4142.3
30°	3684.3
32.5°	3068.0
35°	2417.2
37.5°	1835.3
40°	1349.8
42.5°	953.8
45°	592.2
47.5°	330.6
50°	203.2
52.5°	124.0
55°	75.8
57.5°	37.9
60°	20.6
62.5°	17.2
65°	13.7
67.5°	10.3
70°	6.9
72.5°	6.9
75°	3.4
77.5°	3.4
80°	3.4
82.5°	3.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)