

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: P582560

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC645D010-HM64560827-61MDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4323.4 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

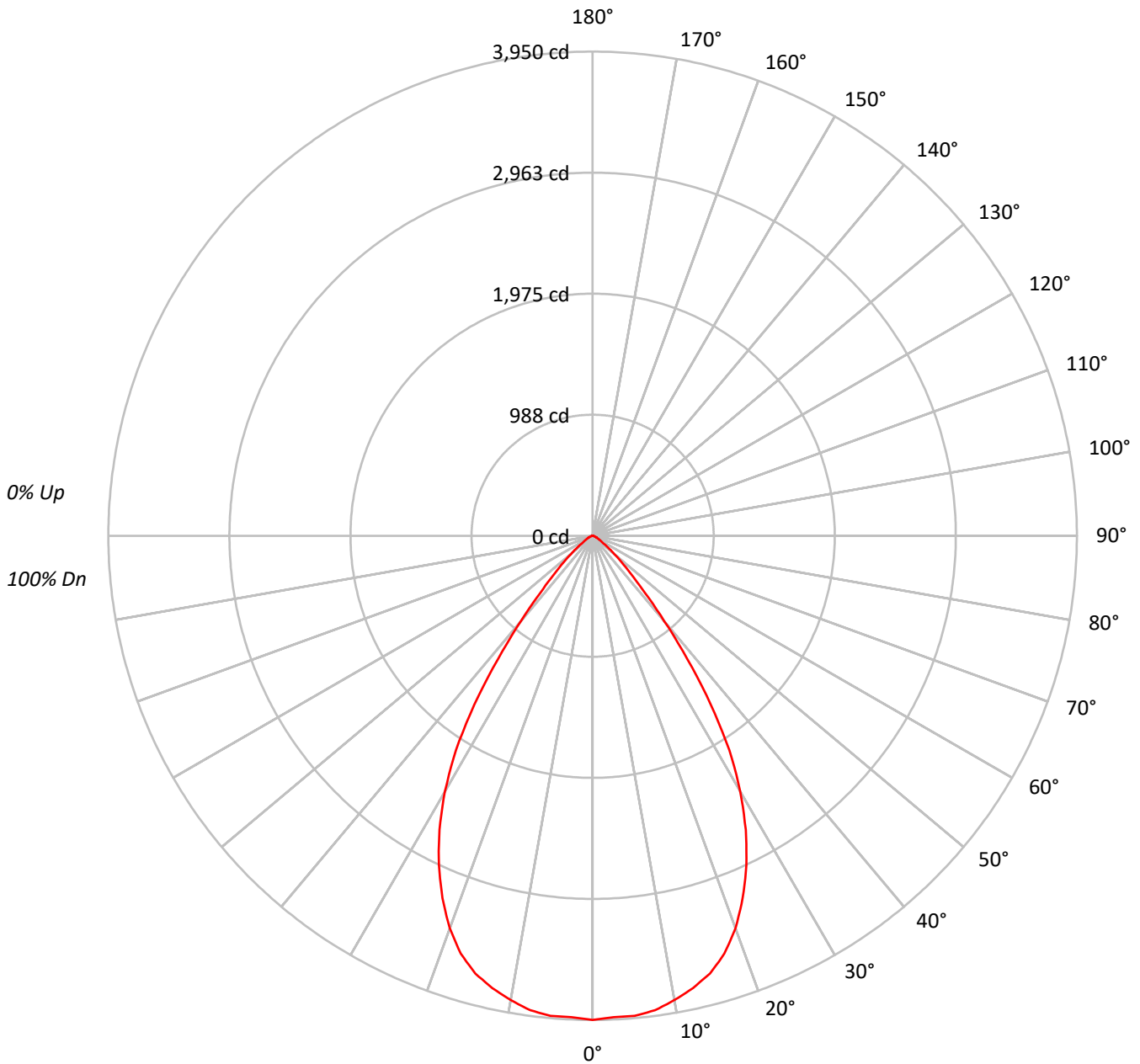
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79	79	79	79
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72	72	72	72
5	90	81	75	71	89	80	75	70	79	74	70	77	73	69	75	72	68	67	67	67	67
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62	62	62	62
7	81	71	65	60	79	70	64	60	69	64	60	68	63	59	67	62	59	57	57	57	57
8	77	67	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53	53	53	53
9	73	62	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50	50	50	50
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47	47	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	216540
5°	216349
10°	214096
15°	209797
20°	198730
25°	179466
30°	152454
35°	112565
40°	65101
45°	34546
50°	19530
55°	10217
60°	6688
65°	4748
70°	3414
75°	2584
80°	1926
85°	1887



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.6	8.6
10°-20°	1033.9	23.9
20°-30°	1349.4	31.2
30°-40°	1031.2	23.9
40°-50°	373.4	8.6
50°-60°	108.5	2.5
60°-70°	38.7	0.9
70°-80°	13.2	0.3
80°-90°	2.5	0.1
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°	2755.9	63.7
0°-40°	3787.1	87.6
0°-60°	4269.0	98.7
0°-90°	4323.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4323.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3950	
5°	3932	373
15°	3697	1034
25°	2967	1349
35°	1682	1031
45°	446	373
55°	107	108
65°	37	39
75°	12	13
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3950.0
2.5°	3931.5
5°	3931.5
7.5°	3904.1
10°	3846.1
12.5°	3778.9
15°	3696.6
17.5°	3574.5
20°	3406.5
22.5°	3199.0
25°	2967.0
27.5°	2704.5
30°	2408.4
32.5°	2075.7
35°	1682.0
37.5°	1269.8
40°	909.7
42.5°	628.8
45°	445.6
47.5°	320.5
50°	229.0
52.5°	161.8
55°	106.9
57.5°	76.4
60°	61.0
62.5°	48.8
65°	36.6
67.5°	30.5
70°	21.3
72.5°	15.2
75°	12.2
77.5°	9.1
80°	6.1
82.5°	3.0
85°	3.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)