

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: P593324

Luminaire Tested: **HC645D010-HM64560950-61MDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593324
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-HM64560950-61MDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4482.6 lumens
Efficiency: N/A
Efficacy: 101.9 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

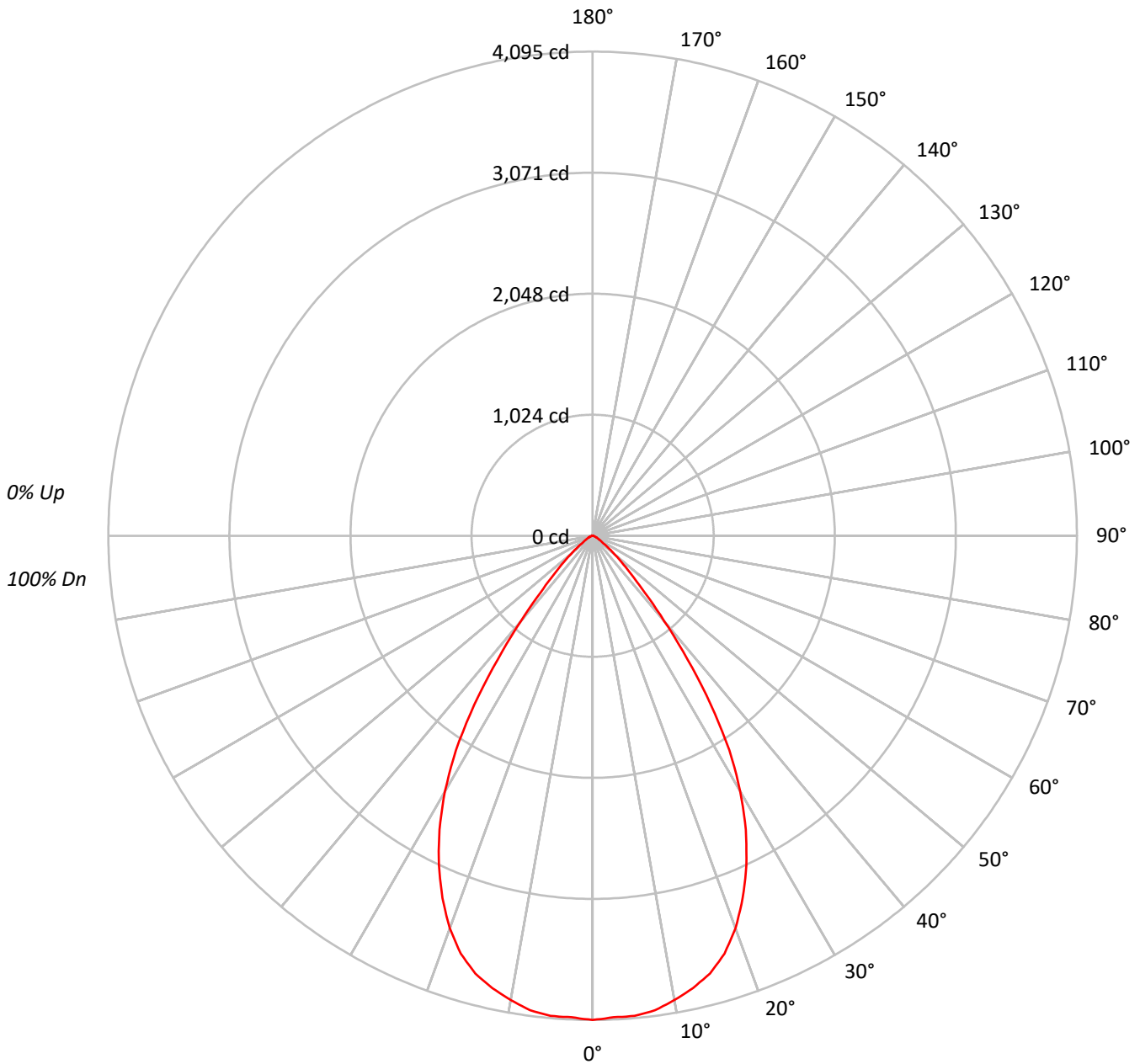
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P593324

CATALOG NUMBER: HC645D010-HM64560950-61MDH

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°	224500
5°	224317
10°	221973
15°	217510
20°	206045
25°	186071
30°	158062
35°	116700
40°	67491
45°	35818
50°	20247
55°	10580
60°	6940
65°	4929
70°	3558
75°	2690
80°	1989
85°	2013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.3	8.6
10°-20°	1071.9	23.9
20°-30°	1399.1	31.2
30°-40°	1069.2	23.9
40°-50°	387.1	8.6
50°-60°	112.4	2.5
60°-70°	40.2	0.9
70°-80°	13.8	0.3
80°-90°	2.6	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°	2857.3	63.7
0°-40°	3926.5	87.6
0°-60°	4426.0	98.7
0°-90°	4482.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4482.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4095	
5°	4076	386
15°	3832	1072
25°	3076	1399
35°	1744	1069
45°	462	387
55°	111	112
65°	38	40
75°	13	14
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4095.2
2.5°	4076.3
5°	4076.3
7.5°	4047.8
10°	3987.6
12.5°	3918.1
15°	3832.5
17.5°	3706.0
20°	3531.9
22.5°	3316.7
25°	3076.2
27.5°	2804.1
30°	2497.0
32.5°	2152.1
35°	1743.8
37.5°	1316.6
40°	943.1
42.5°	652.0
45°	462.0
47.5°	332.3
50°	237.4
52.5°	167.7
55°	110.7
57.5°	79.2
60°	63.3
62.5°	50.7
65°	38.0
67.5°	31.7
70°	22.2
72.5°	15.8
75°	12.7
77.5°	9.5
80°	6.3
82.5°	3.2
85°	3.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)