

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: P581048

Luminaire Tested: **HC405D010-HM40525927-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC405D010-HM40525927-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 551.3 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

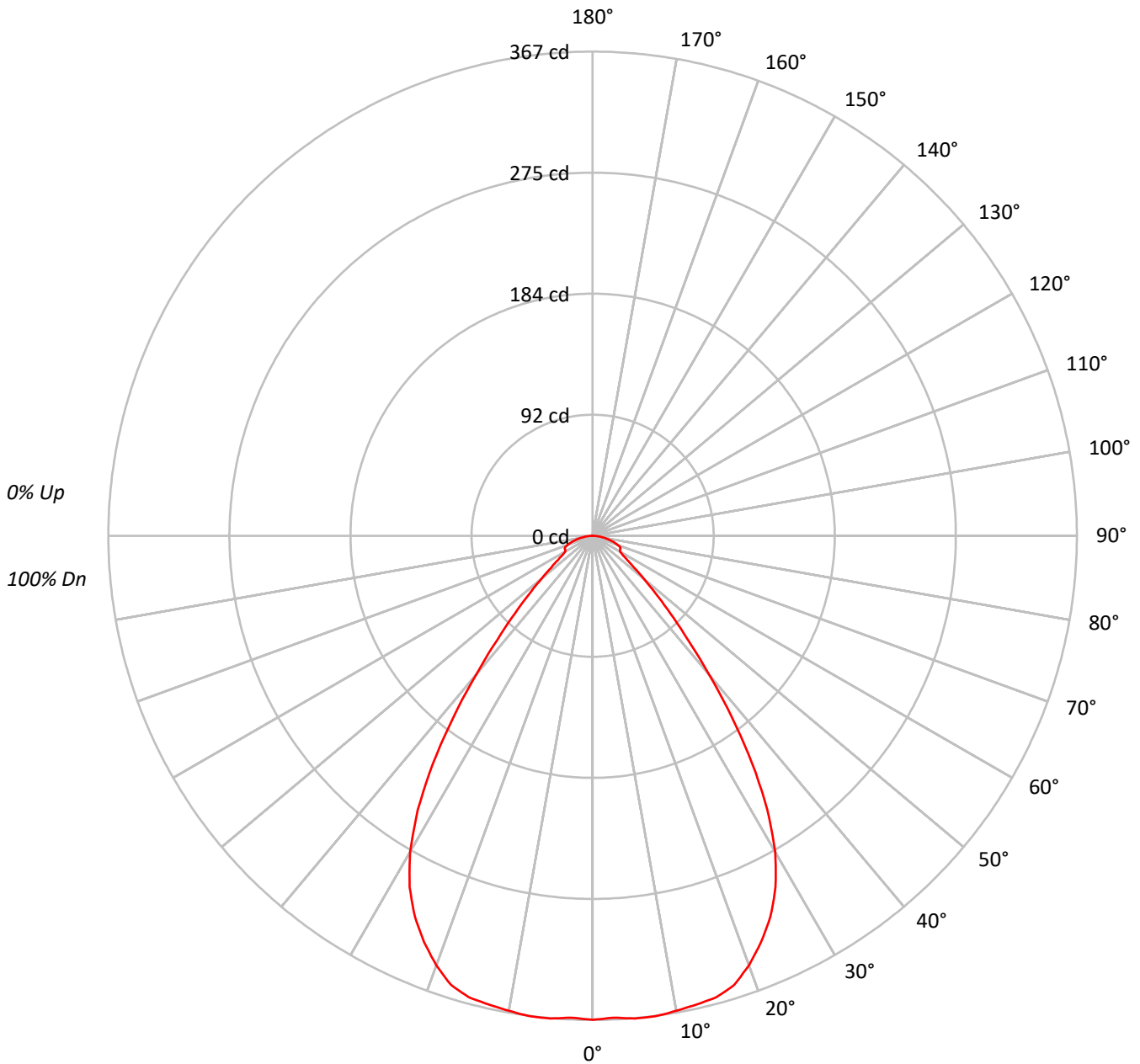
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	45256
5°	45478
10°	45791
15°	46252
20°	45469
25°	43374
30°	39410
35°	31787
40°	22059
45°	14478
50°	9691
55°	6903
60°	5896
65°	6800
70°	7285
75°	6958
80°	6322
85°	5802



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.0	6.3
10°-20°	101.7	18.5
20°-30°	145.3	26.4
30°-40°	129.8	23.5
40°-50°	66.6	12.1
50°-60°	30.3	5.5
60°-70°	22.6	4.1
70°-80°	15.4	2.8
80°-90°	4.6	0.8
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°	282.1	51.2
0°-40°	411.9	74.7
0°-60°	508.7	92.3
0°-90°	551.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	551.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	367	
5°	367	35
15°	362	102
25°	319	145
35°	211	130
45°	83	67
55°	32	30
65°	23	23
75°	15	15
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	366.9
2.5°	365.6
5°	367.3
7.5°	367.3
10°	365.6
12.5°	363.9
15°	362.2
17.5°	357.0
20°	346.4
22.5°	333.5
25°	318.7
27.5°	300.3
30°	276.7
32.5°	246.6
35°	211.1
37.5°	173.2
40°	137.0
42.5°	106.9
45°	83.0
47.5°	64.9
50°	50.5
52.5°	39.6
55°	32.1
57.5°	27.0
60°	23.9
62.5°	23.3
65°	23.3
67.5°	22.6
70°	20.2
72.5°	17.5
75°	14.6
77.5°	11.6
80°	8.9
82.5°	6.5
85°	4.1
87.5°	1.7
90°	0.0



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— 0°-180°







(END OF REPORT)