

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: P581066

Luminaire Tested: **HC405D010-HM40525930-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581066
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-HM40525930-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 613.3 lumens
Efficiency: N/A
Efficacy: 102.2 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

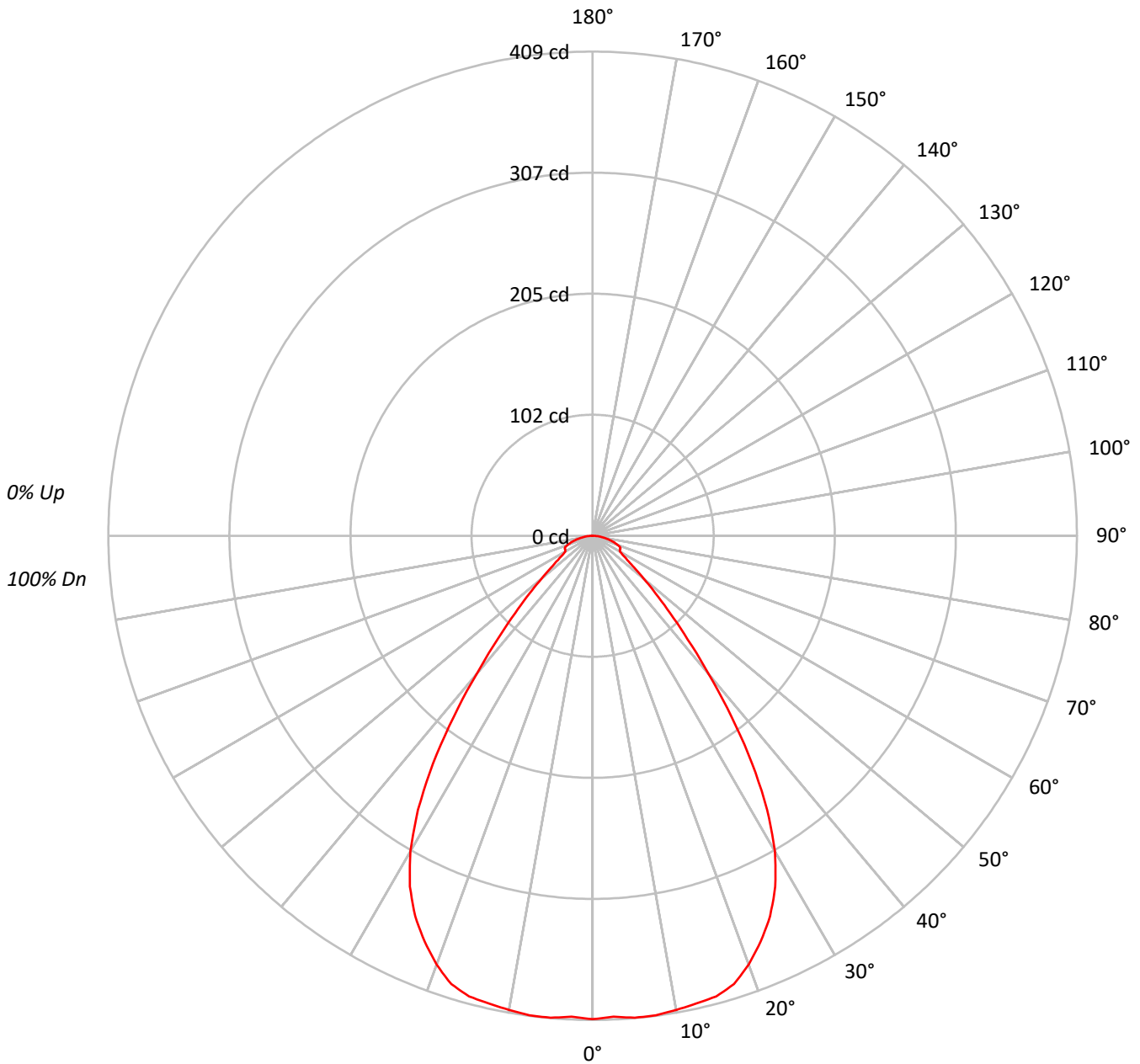
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	50362
5°	50592
10°	50939
15°	51449
20°	50588
25°	48260
30°	43839
35°	35371
40°	24539
45°	16118
50°	10804
55°	7699
60°	6562
65°	7559
70°	8114
75°	7768
80°	7032
85°	6369



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.9	6.3
10°-20°	113.2	18.5
20°-30°	161.7	26.4
30°-40°	144.4	23.6
40°-50°	74.1	12.1
50°-60°	33.7	5.5
60°-70°	25.2	4.1
70°-80°	17.1	2.8
80°-90°	5.1	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°	313.8	51.2
0°-40°	458.2	74.7
0°-60°	566.0	92.3
0°-90°	613.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	613.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	408	
5°	409	39
15°	403	113
25°	355	162
35°	235	144
45°	92	74
55°	36	34
65°	26	25
75°	16	17
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	408.3
2.5°	406.7
5°	408.6
7.5°	408.6
10°	406.7
12.5°	404.7
15°	402.9
17.5°	397.1
20°	385.4
22.5°	370.9
25°	354.6
27.5°	334.1
30°	307.8
32.5°	274.4
35°	234.9
37.5°	192.7
40°	152.4
42.5°	118.9
45°	92.4
47.5°	72.2
50°	56.3
52.5°	44.0
55°	35.8
57.5°	30.1
60°	26.6
62.5°	25.9
65°	25.9
67.5°	25.1
70°	22.5
72.5°	19.4
75°	16.3
77.5°	12.9
80°	9.9
82.5°	7.3
85°	4.5
87.5°	1.9
90°	0.0



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— 0°-180°







(END OF REPORT)