

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: P581021

Luminaire Tested: **HC405D010-HM40525835-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC405D010-HM40525835-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 616.7 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

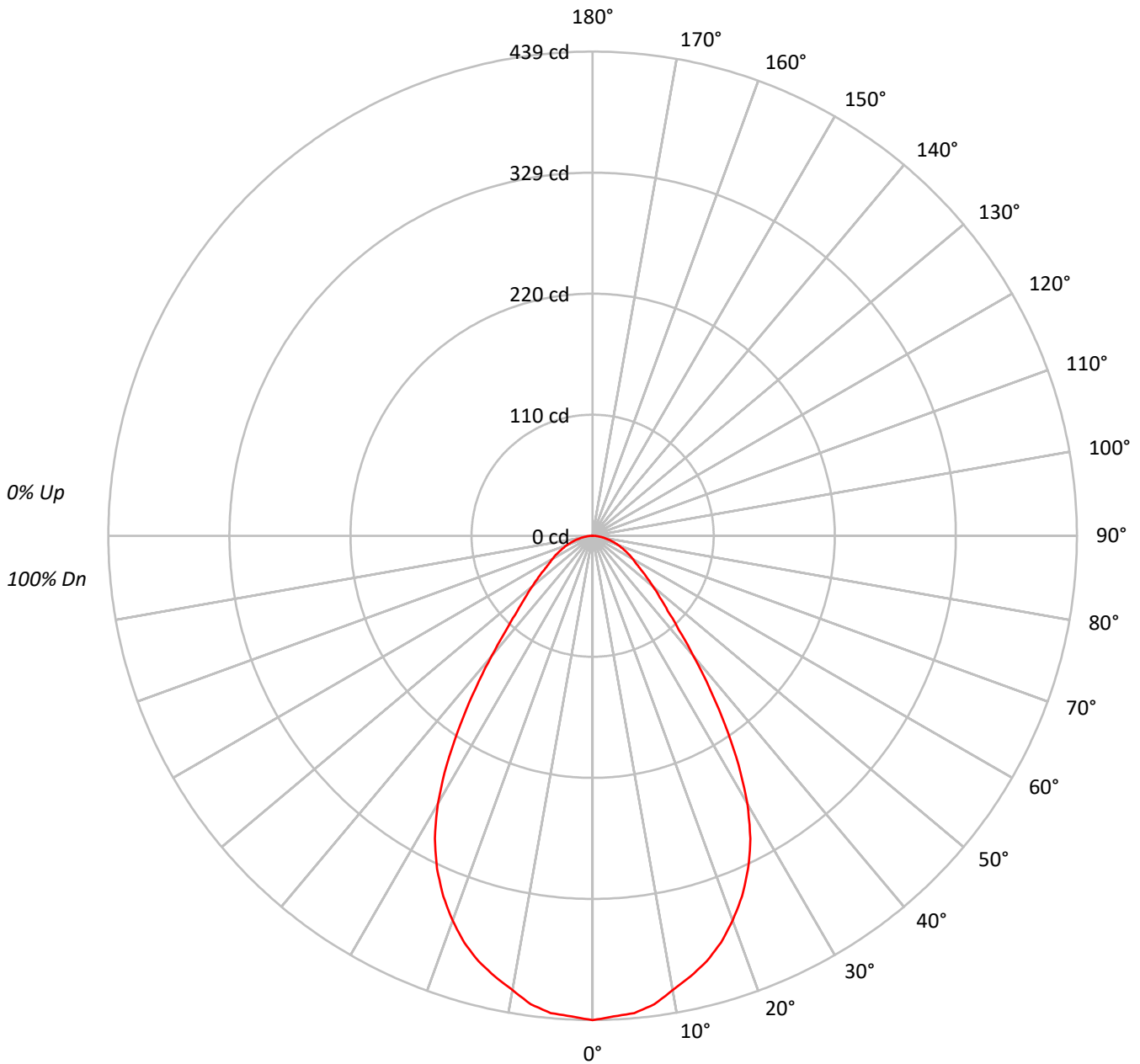
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	54173
5°	53786
10°	52379
15°	51002
20°	48711
25°	45388
30°	39965
35°	31516
40°	22880
45°	16816
50°	13682
55°	11462
60°	10386
65°	9544
70°	8872
75°	8102
80°	7316
85°	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.0	6.6
10°-20°	112.0	18.2
20°-30°	151.9	24.6
30°-40°	130.3	21.1
40°-50°	77.0	12.5
50°-60°	48.8	7.9
60°-70°	32.8	5.3
70°-80°	18.1	2.9
80°-90°	5.0	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°	304.8	49.4
0°-40°	435.1	70.6
0°-60°	560.8	90.9
0°-90°	616.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	616.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	439	
5°	434	41
15°	399	112
25°	334	152
35°	209	130
45°	96	77
55°	53	49
65°	33	33
75°	17	18
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	439.2
2.5°	436.2
5°	434.4
7.5°	428.5
10°	418.2
12.5°	409.3
15°	399.4
17.5°	386.8
20°	371.1
22.5°	353.7
25°	333.5
27.5°	309.7
30°	280.6
32.5°	246.1
35°	209.3
37.5°	173.9
40°	142.1
42.5°	115.7
45°	96.4
47.5°	82.5
50°	71.3
52.5°	61.9
55°	53.3
57.5°	46.6
60°	42.1
62.5°	37.7
65°	32.7
67.5°	28.7
70°	24.6
72.5°	20.7
75°	17.0
77.5°	13.4
80°	10.3
82.5°	7.2
85°	4.4
87.5°	1.8
90°	0.0



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— 0°-180°







(END OF REPORT)