

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: P581065

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC405D010-HM40525930-41WDBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 492.8 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

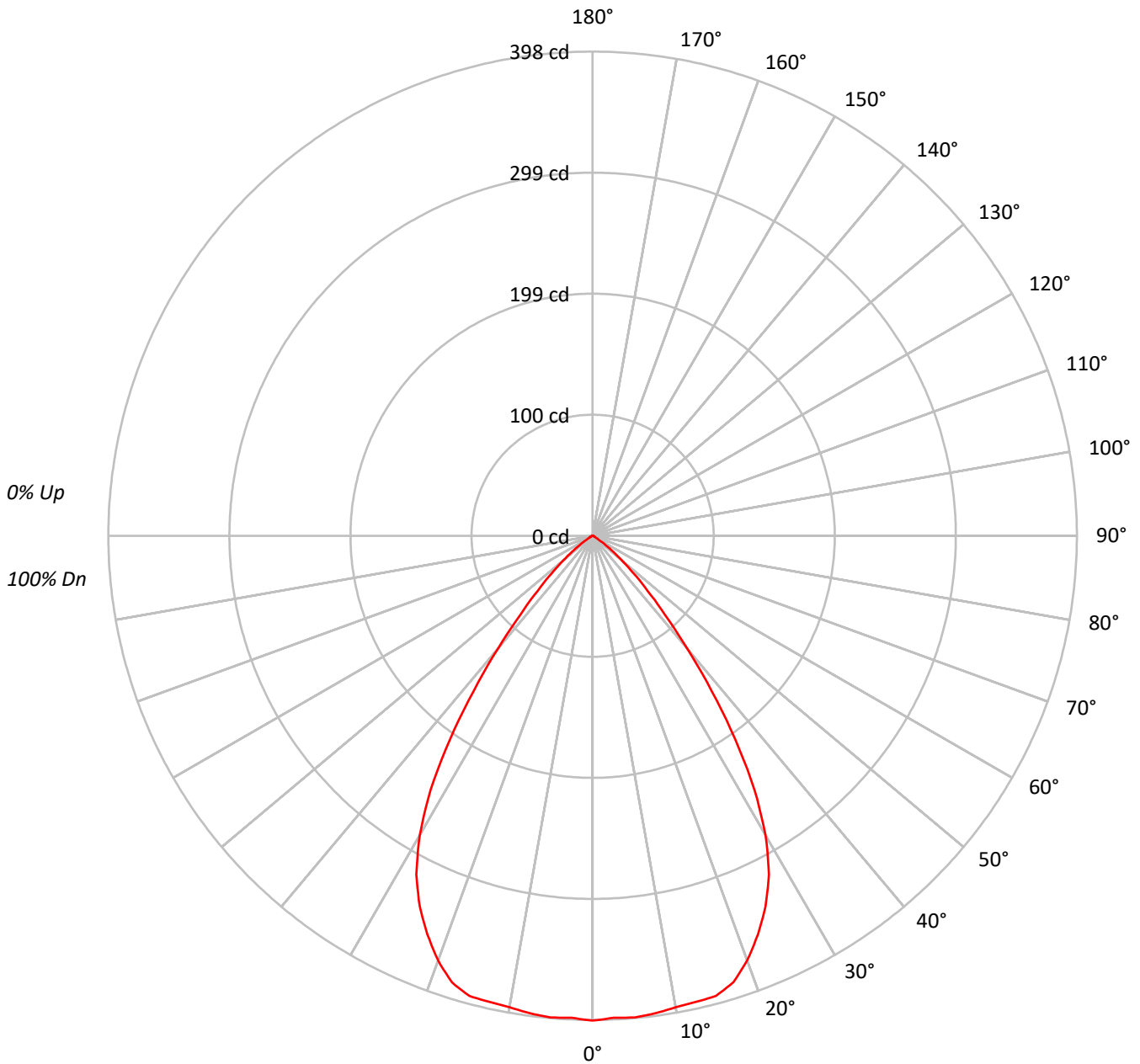
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78	78	78	78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72	72	72	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61	61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56	56	56	56
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52	52	52	52
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49	49	49	49
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45	45	45	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	49153
5°	49205
10°	49285
15°	50019
20°	48764
25°	45756
30°	40478
35°	30778
40°	19386
45°	11129
50°	5910
55°	2452
60°	641
65°	555
70°	397
75°	381
80°	213
85°	425



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.8	7.7
10°-20°	109.7	22.3
20°-30°	153.1	31.1
30°-40°	126.0	25.6
40°-50°	51.9	10.5
50°-60°	11.7	2.4
60°-70°	1.9	0.4
70°-80°	0.7	0.1
80°-90°	0.2	0.0
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°	300.5	61.0
0°-40°	426.5	86.5
0°-60°	490.0	99.4
0°-90°	492.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	492.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	398	
5°	397	38
15°	392	110
25°	336	153
35°	204	126
45°	64	52
55°	11	12
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	398.5
2.5°	396.6
5°	397.4
7.5°	395.9
10°	393.5
12.5°	392.4
15°	391.7
17.5°	384.8
20°	371.5
22.5°	354.8
25°	336.2
27.5°	313.8
30°	284.2
32.5°	247.7
35°	204.4
37.5°	160.7
40°	120.4
42.5°	87.7
45°	63.8
47.5°	45.6
50°	30.8
52.5°	19.4
55°	11.4
57.5°	5.7
60°	2.6
62.5°	2.3
65°	1.9
67.5°	1.5
70°	1.1
72.5°	0.8
75°	0.8
77.5°	0.3
80°	0.3
82.5°	0.3
85°	0.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)