

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: P581111

Luminaire Tested: **HC405D010-HM40525940-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581111
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-HM40525940-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 570.7 lumens
Efficiency: N/A
Efficacy: 95.1 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

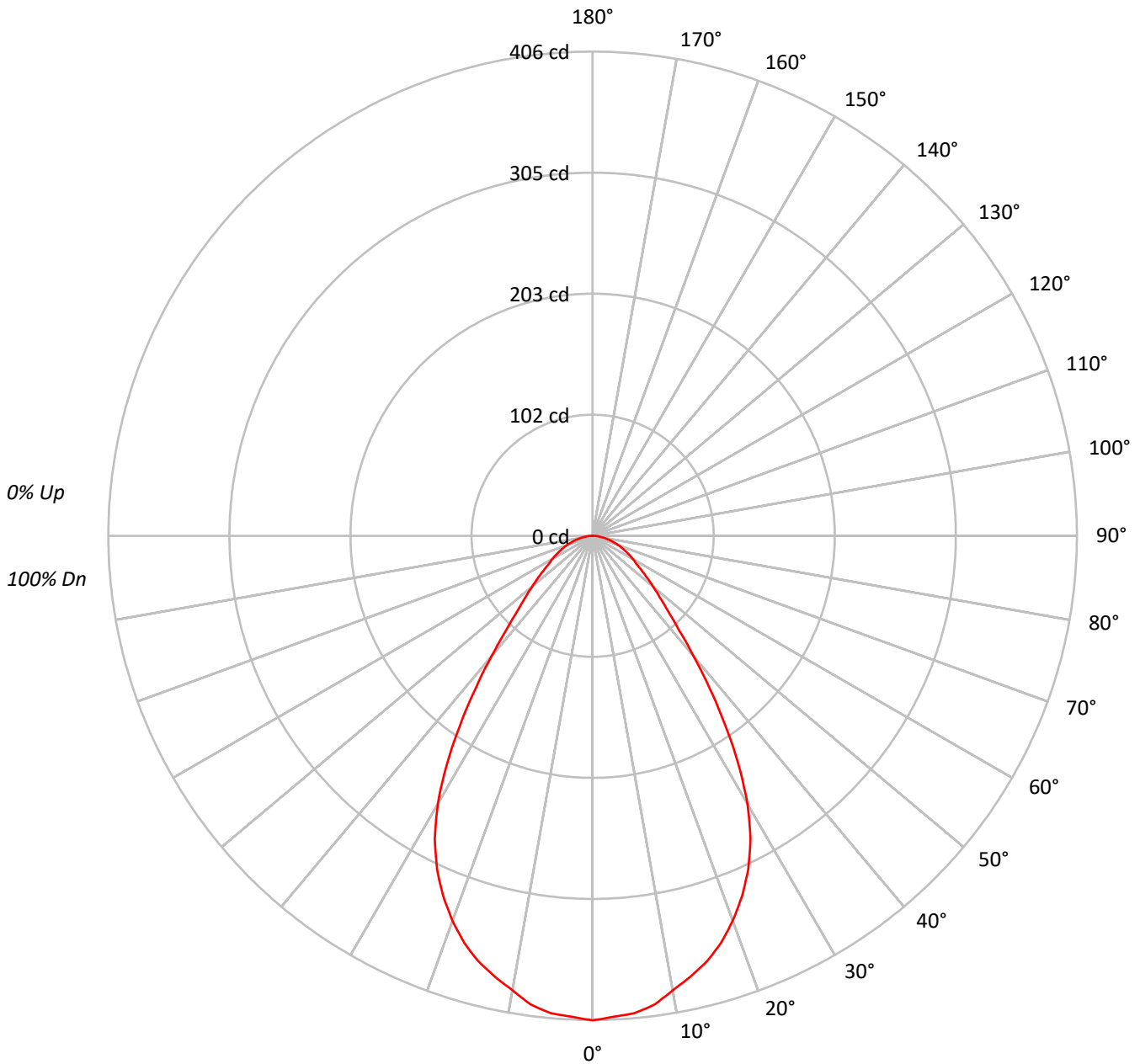
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89			89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			52
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	50128
5°	49762
10°	48471
15°	47197
20°	45088
25°	41999
30°	36988
35°	29167
40°	21158
45°	15560
50°	12646
55°	10623
60°	9621
65°	8843
70°	8223
75°	7530
80°	6748
85°	5944



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.9	6.6
10°-20°	103.7	18.2
20°-30°	140.5	24.6
30°-40°	120.6	21.1
40°-50°	71.2	12.5
50°-60°	45.1	7.9
60°-70°	30.3	5.3
70°-80°	16.8	2.9
80°-90°	4.7	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	49.4
0°-40°	402.6	70.6
0°-60°	518.9	90.9
0°-90°	570.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	570.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	406	
5°	402	38
15°	370	104
25°	309	141
35°	194	121
45°	89	71
55°	49	45
65°	30	30
75°	16	17
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	406.4
2.5°	403.6
5°	401.9
7.5°	396.6
10°	387.0
12.5°	378.7
15°	369.6
17.5°	358.0
20°	343.5
22.5°	327.2
25°	308.6
27.5°	286.6
30°	259.7
32.5°	227.7
35°	193.7
37.5°	160.9
40°	131.4
42.5°	107.0
45°	89.2
47.5°	76.3
50°	65.9
52.5°	57.2
55°	49.4
57.5°	43.1
60°	39.0
62.5°	34.8
65°	30.3
67.5°	26.6
70°	22.8
72.5°	19.1
75°	15.8
77.5°	12.5
80°	9.5
82.5°	6.6
85°	4.2
87.5°	1.7
90°	0.0



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— 0°-180°







(END OF REPORT)