

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: P580997

Luminaire Tested: **HC405D010-HM40525830-41WDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC405D010-HM40525830-41WDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 690.5 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

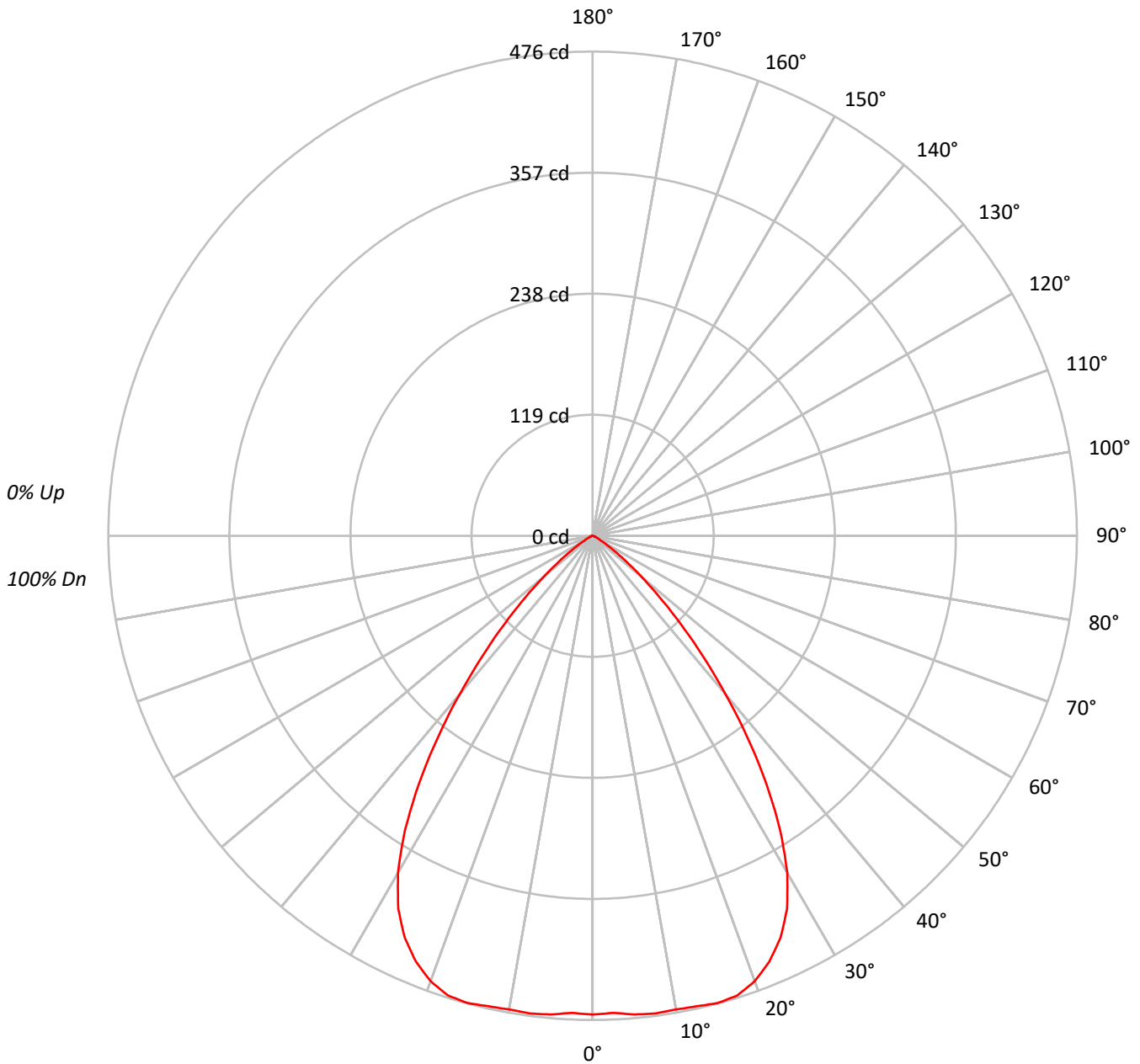
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580997

CATALOG NUMBER: HC405D010-HM40525830-41WDH

Luminous Intensity Polar Plot





TEST NUMBER: P580997

CATALOG NUMBER: HC405D010-HM40525830-41WDH

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	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84	84	84	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76	76	76	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69	69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63	63
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58	58	58	58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53	53	53	53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	49
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42	42	42	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	58059
5°	58491
10°	59217
15°	60720
20°	61155
25°	59406
30°	54478
35°	44812
40°	32670
45°	21212
50°	11955
55°	5677
60°	2245
65°	1401
70°	938
75°	572
80°	355
85°	708



TEST NUMBER: P580997

CATALOG NUMBER: HC405D010-HM40525830-41WDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	6.5
10°-20°	134.0	19.4
20°-30°	198.8	28.8
30°-40°	183.6	26.6
40°-50°	95.9	13.9
50°-60°	26.3	3.8
60°-70°	5.1	0.7
70°-80°	1.4	0.2
80°-90°	0.3	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°	378.0	54.7
0°-40°	561.6	81.3
0°-60°	683.7	99.0
0°-90°	690.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	690.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	471	
5°	472	45
15°	476	134
25°	436	199
35°	298	184
45°	122	96
55°	26	26
65°	5	5
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P580997

CATALOG NUMBER: HC405D010-HM40525830-41WDH

CANDELA DISTRIBUTION (FULL):

0°	
0°	470.7
2.5°	469.4
5°	472.4
7.5°	473.7
10°	472.8
12.5°	473.7
15°	475.5
17.5°	473.7
20°	465.9
22.5°	453.4
25°	436.5
27.5°	413.6
30°	382.5
32.5°	343.1
35°	297.6
37.5°	250.0
40°	202.9
42.5°	159.7
45°	121.6
47.5°	89.1
50°	62.3
52.5°	41.5
55°	26.4
57.5°	15.5
60°	9.1
62.5°	6.5
65°	4.8
67.5°	3.4
70°	2.6
72.5°	1.7
75°	1.2
77.5°	0.9
80°	0.5
82.5°	0.5
85°	0.5
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)