

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: P581075

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581075
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-HM40525930-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 522.8 lumens
Efficiency: N/A
Efficacy: 87.1 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

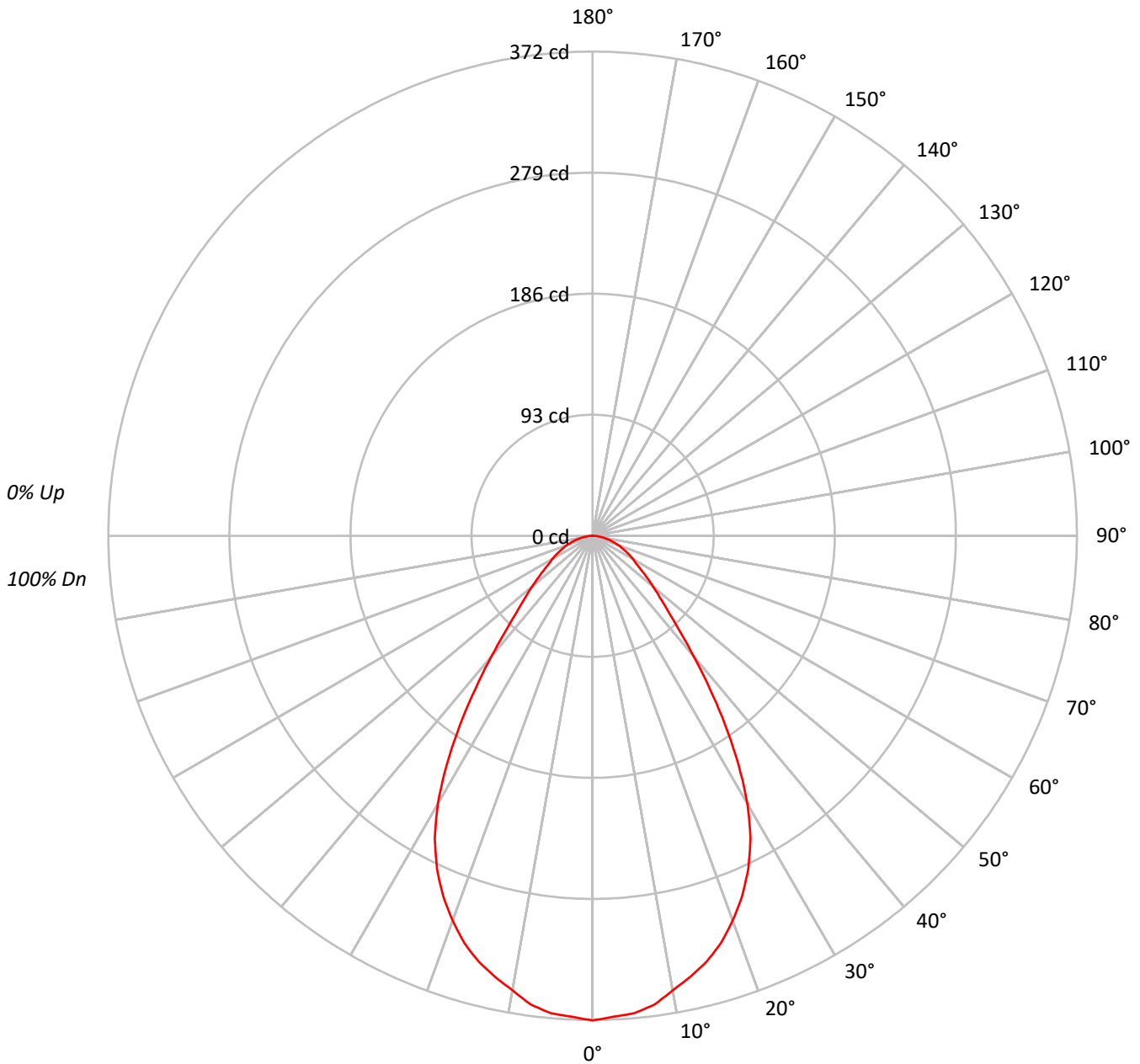
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581075

CATALOG NUMBER: HC405D010-HM40525930-41NDW

Luminous Intensity Polar Plot





TEST NUMBER: P581075

CATALOG NUMBER: HC405D010-HM40525930-41NDW

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	103	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°	45934
5°	45589
10°	44413
15°	43238
20°	41295
25°	38475
30°	33883
35°	26727
40°	19386
45°	14252
50°	11590
55°	9720
60°	8832
65°	8085
70°	7537
75°	6863
80°	6180
85°	5236



TEST NUMBER: P581075

CATALOG NUMBER: HC405D010-HM40525930-41NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.7	6.6
10°-20°	95.0	18.2
20°-30°	128.7	24.6
30°-40°	110.5	21.1
40°-50°	65.2	12.5
50°-60°	41.3	7.9
60°-70°	27.8	5.3
70°-80°	15.3	2.9
80°-90°	4.3	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°	258.4	49.4
0°-40°	368.9	70.6
0°-60°	475.4	90.9
0°-90°	522.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	522.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	372	
5°	368	35
15°	339	95
25°	283	129
35°	178	110
45°	82	65
55°	45	41
65°	28	28
75°	14	15
85°	4	4
90°	0	



TEST NUMBER: P581075

CATALOG NUMBER: HC405D010-HM40525930-41NDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	372.4
2.5°	369.8
5°	368.2
7.5°	363.3
10°	354.6
12.5°	347.0
15°	338.6
17.5°	328.0
20°	314.6
22.5°	299.9
25°	282.7
27.5°	262.6
30°	237.9
32.5°	208.6
35°	177.5
37.5°	147.4
40°	120.4
42.5°	98.1
45°	81.7
47.5°	69.9
50°	60.4
52.5°	52.4
55°	45.2
57.5°	39.5
60°	35.8
62.5°	31.9
65°	27.7
67.5°	24.3
70°	20.9
72.5°	17.5
75°	14.4
77.5°	11.4
80°	8.7
82.5°	6.1
85°	3.7
87.5°	1.5
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)