

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: P581022

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC405D010-HM40525835-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 633.8 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

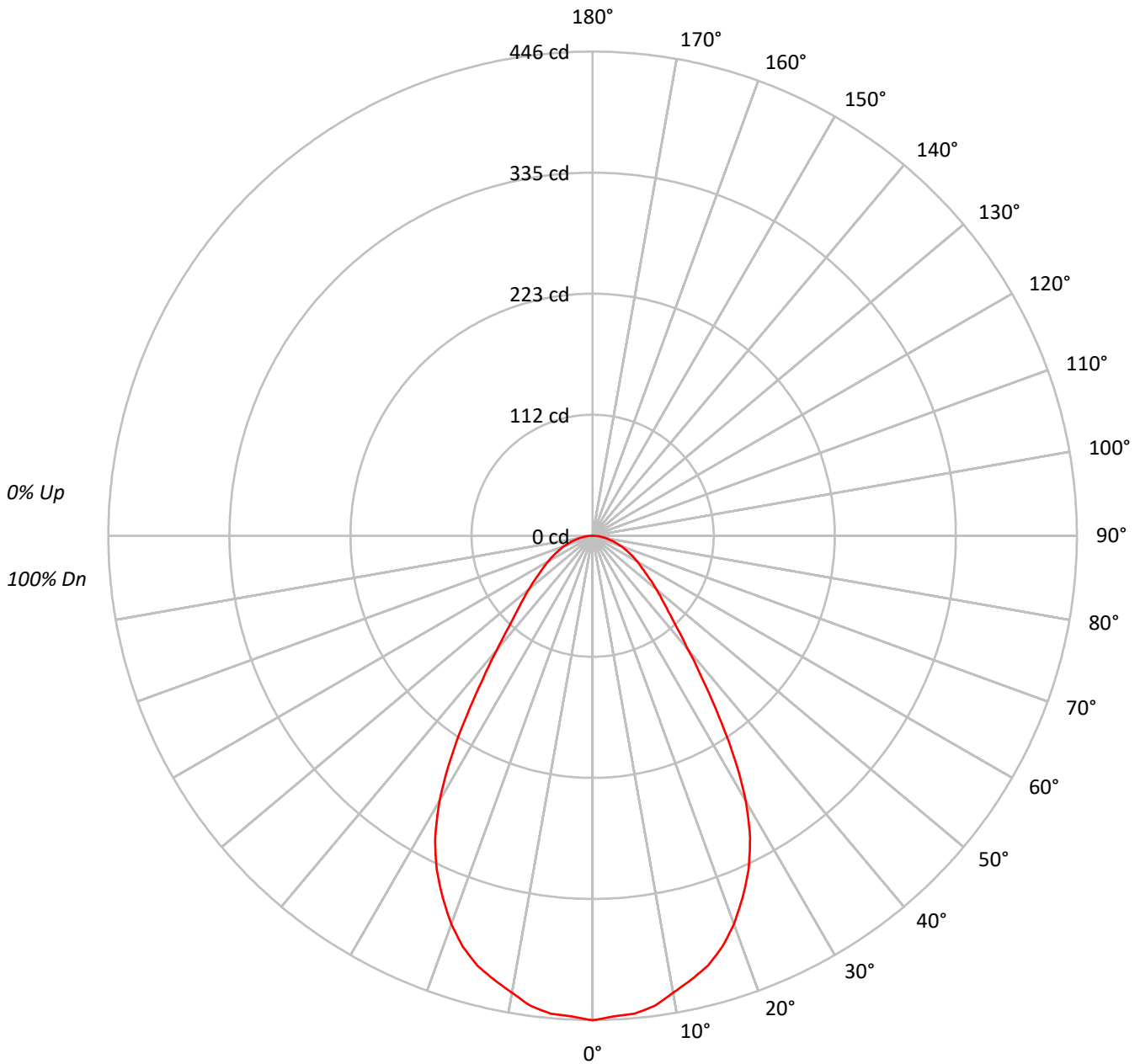
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581022

CATALOG NUMBER: HC405D010-HM40525835-41PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P581022

CATALOG NUMBER: HC405D010-HM40525835-41PSMDW

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	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	55049
5°	54715
10°	53531
15°	52356
20°	49945
25°	46232
30°	40207
35°	30371
40°	22011
45°	17199
50°	14699
55°	12709
60°	11693
65°	10740
70°	10026
75°	9198
80°	8595
85°	8208



TEST NUMBER: P581022

CATALOG NUMBER: HC405D010-HM40525835-41PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.7	6.6
10°-20°	114.8	18.1
20°-30°	154.4	24.4
30°-40°	127.0	20.0
40°-50°	78.0	12.3
50°-60°	53.9	8.5
60°-70°	36.8	5.8
70°-80°	20.5	3.2
80°-90°	6.5	1.0
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°	311.0	49.1
0°-40°	438.0	69.1
0°-60°	569.9	89.9
0°-90°	633.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	633.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	446	
5°	442	42
15°	410	115
25°	340	154
35°	202	127
45°	99	78
55°	59	54
65°	37	37
75°	19	21
85°	6	7
90°	0	



TEST NUMBER: P581022

CATALOG NUMBER: HC405D010-HM40525835-41PSMDW

CANDELA DISTRIBUTION (FULL):

0°	
0°	446.3
2.5°	443.1
5°	441.9
7.5°	436.9
10°	427.4
12.5°	418.9
15°	410.0
17.5°	397.0
20°	380.5
22.5°	360.7
25°	339.7
27.5°	314.1
30°	282.3
32.5°	243.3
35°	201.7
37.5°	165.8
40°	136.7
42.5°	114.3
45°	98.6
47.5°	86.5
50°	76.6
52.5°	67.6
55°	59.1
57.5°	52.9
60°	47.4
62.5°	42.1
65°	36.8
67.5°	32.2
70°	27.8
72.5°	23.3
75°	19.3
77.5°	15.2
80°	12.1
82.5°	9.0
85°	5.8
87.5°	3.2
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)