

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: P580118

Luminaire Tested: **HC425D010-HM40525827-41NDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC425D010-HM40525827-41NDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2184.9 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

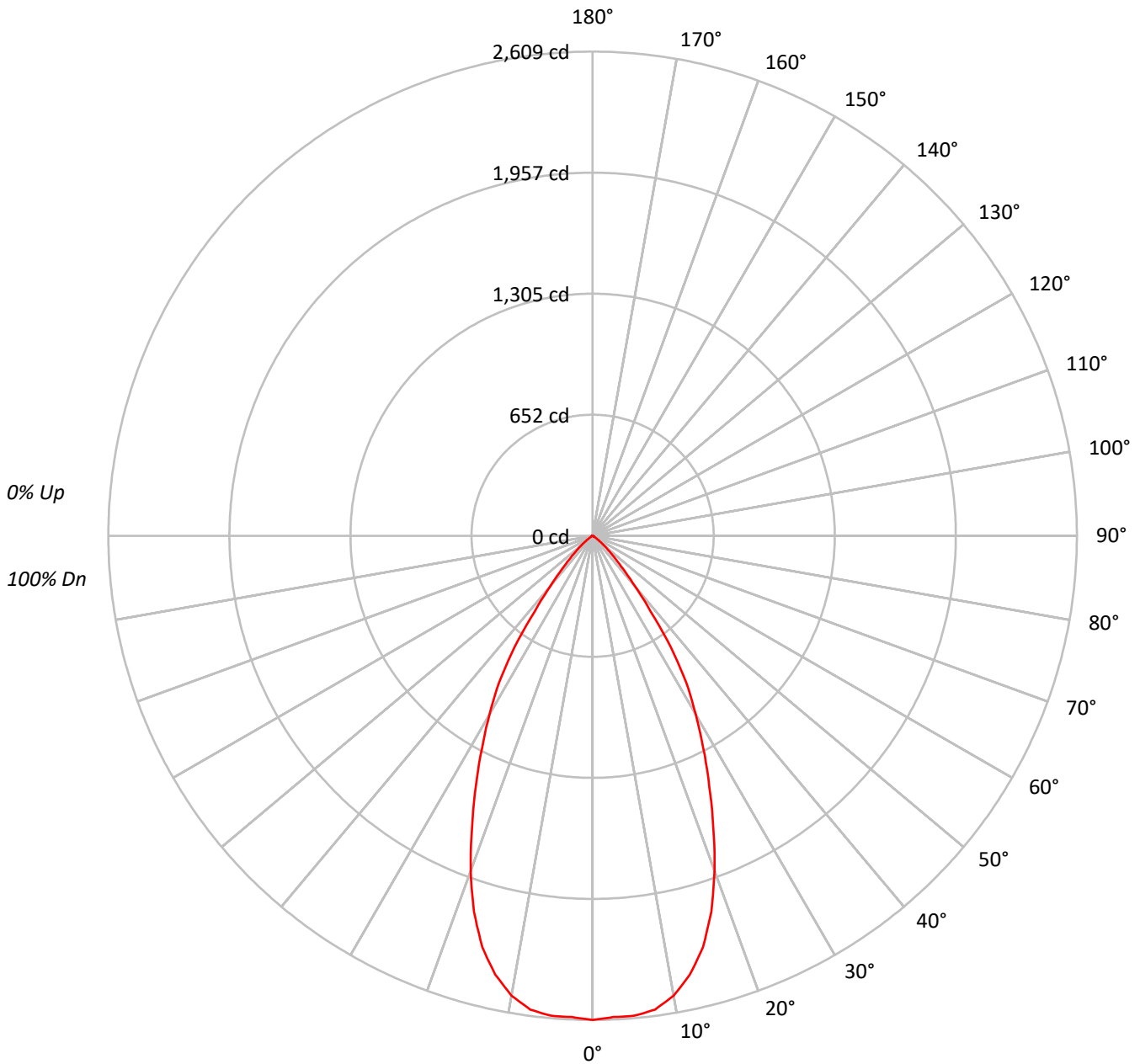
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580118

CATALOG NUMBER: HC425D010-HM40525827-41NDC

Luminous Intensity Polar Plot





TEST NUMBER: P580118

CATALOG NUMBER: HC425D010-HM40525827-41NDC

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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76			
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			
8	80	70	64	60	78	70	64	60	69	64	60	68	63	60	67	62	59	58			
9	76	66	61	57	75	66	60	57	65	60	56	64	59	56	63	59	56	55			
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	51			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	321821
5°	321404
10°	315138
15°	293039
20°	252022
25°	202458
30°	158066
35°	110659
40°	56790
45°	28834
50°	14449
55°	5398
60°	2171
65°	1722
70°	1046
75°	715
80°	1065
85°	0



TEST NUMBER: P580118

CATALOG NUMBER: HC425D010-HM40525827-41NDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.4	11.2
10°-20°	633.4	29.0
20°-30°	682.4	31.2
30°-40°	448.3	20.5
40°-50°	139.4	6.4
50°-60°	27.4	1.3
60°-70°	5.8	0.3
70°-80°	2.1	0.1
80°-90°	0.6	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°	1561.3	71.5
0°-40°	2009.6	92.0
0°-60°	2176.4	99.6
0°-90°	2184.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2184.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2609	
5°	2596	245
15°	2295	633
25°	1488	682
35°	735	448
45°	165	139
55°	25	27
65°	6	6
75°	2	2
85°	0	1
90°	0	



TEST NUMBER: P580118

CATALOG NUMBER: HC425D010-HM40525827-41NDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	2609.1
2.5°	2595.8
5°	2595.8
7.5°	2575.1
10°	2516.1
12.5°	2421.7
15°	2294.8
17.5°	2125.1
20°	1920.0
22.5°	1698.6
25°	1487.6
27.5°	1291.2
30°	1109.8
32.5°	938.5
35°	734.9
37.5°	512.1
40°	352.7
42.5°	243.5
45°	165.3
47.5°	112.1
50°	75.3
52.5°	47.2
55°	25.1
57.5°	10.3
60°	8.8
62.5°	7.3
65°	5.9
67.5°	4.4
70°	2.9
72.5°	2.9
75°	1.5
77.5°	1.5
80°	1.5
82.5°	1.5
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)