

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: P580147

Luminaire Tested: **HC425D010-HM40525835-41WDBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC425D010-HM40525835-41WDBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2149.7 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

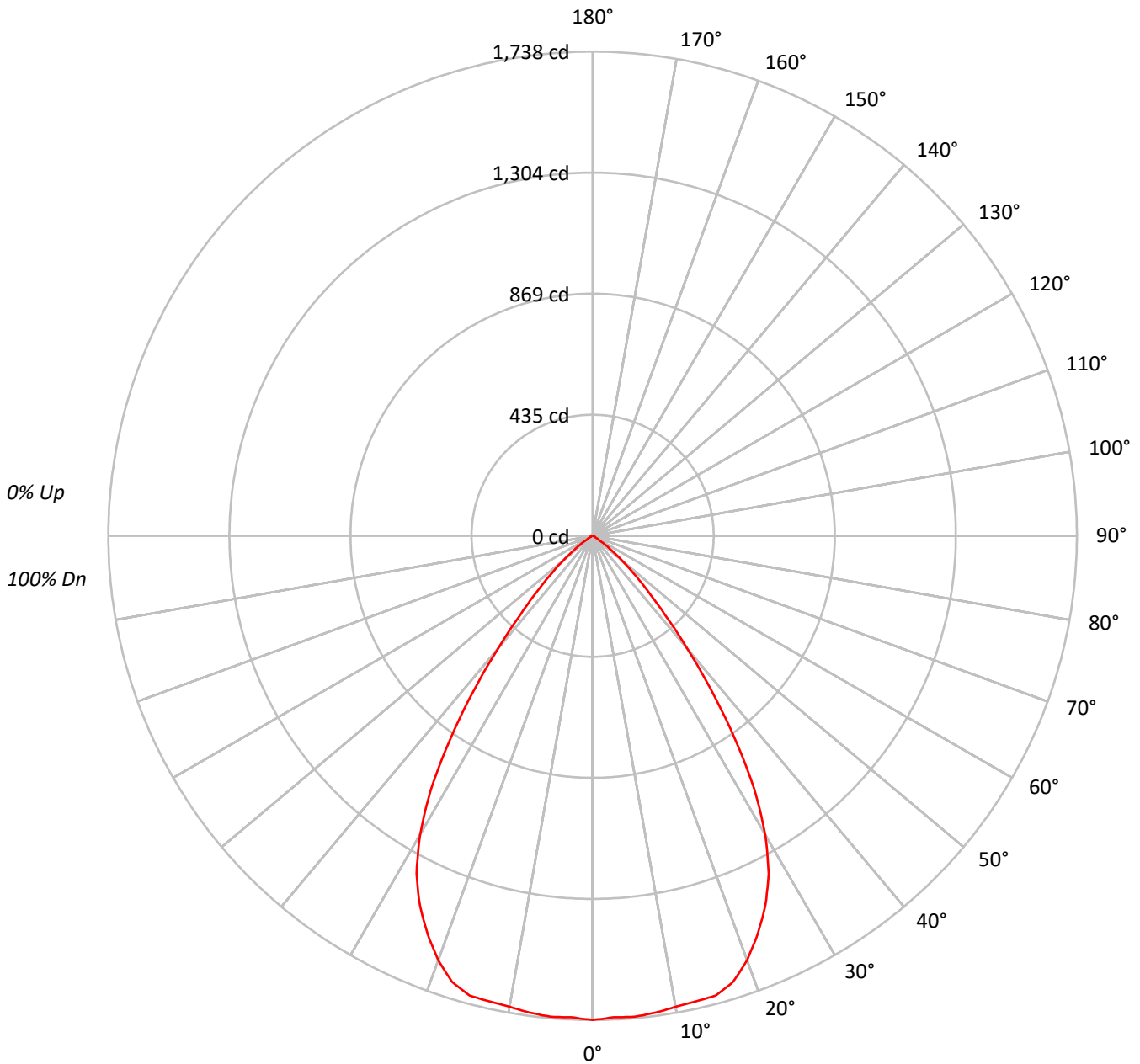
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580147

CATALOG NUMBER: HC425D010-HM40525835-41WDBB

Luminous Intensity Polar Plot





TEST NUMBER: P580147

CATALOG NUMBER: HC425D010-HM40525835-41WDBB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93			93																
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			85																
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78			78																
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72			72																
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66			66																
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61			61																
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56			56																
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52			52																
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49			49																
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45			45																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	214387
5°	214587
10°	214989
15°	218144
20°	212710
25°	199559
30°	176524
35°	134240
40°	84566
45°	48563
50°	25752
55°	10688
60°	2862
65°	2393
70°	1803
75°	1573
80°	1208
85°	2406



TEST NUMBER: P580147

CATALOG NUMBER: HC425D010-HM40525835-41WDBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	7.7
10°-20°	478.3	22.3
20°-30°	667.6	31.1
30°-40°	549.4	25.6
40°-50°	226.3	10.5
50°-60°	50.9	2.4
60°-70°	8.2	0.4
70°-80°	3.1	0.1
80°-90°	1.2	0.1
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°	1310.7	61.0
0°-40°	1860.1	86.5
0°-60°	2137.3	99.4
0°-90°	2149.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2149.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1738	
5°	1733	165
15°	1708	478
25°	1466	668
35°	892	549
45°	278	226
55°	50	51
65°	8	8
75°	3	3
85°	2	1
90°	0	



TEST NUMBER: P580147

CATALOG NUMBER: HC425D010-HM40525835-41WDBB

CANDELA DISTRIBUTION (FULL):

	0°
0°	1738.1
2.5°	1729.9
5°	1733.1
7.5°	1726.5
10°	1716.5
12.5°	1711.6
15°	1708.3
17.5°	1678.5
20°	1620.5
22.5°	1547.5
25°	1466.3
27.5°	1368.6
30°	1239.4
32.5°	1080.3
35°	891.5
37.5°	700.9
40°	525.2
42.5°	382.7
45°	278.4
47.5°	198.8
50°	134.2
52.5°	84.4
55°	49.7
57.5°	24.8
60°	11.6
62.5°	9.9
65°	8.2
67.5°	6.7
70°	5.0
72.5°	3.3
75°	3.3
77.5°	1.7
80°	1.7
82.5°	1.7
85°	1.7
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)