

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: P580259

Luminaire Tested: **HC430D010-HM43040827-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC430D010-HM43040827-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2927.3 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

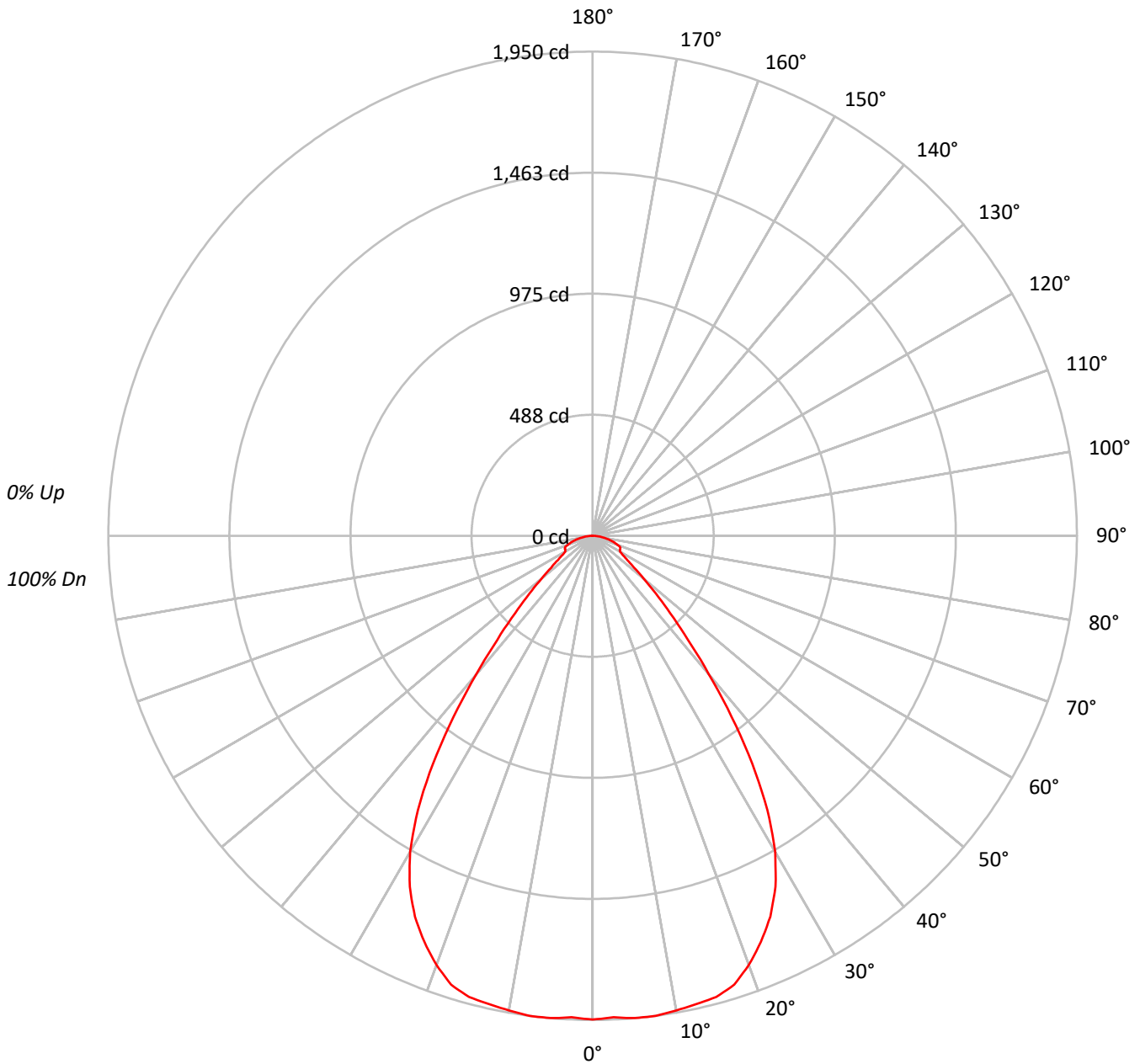
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580259

CATALOG NUMBER: HC430D010-HM43040827-41WDWB

Luminous Intensity Polar Plot





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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65	65	65	65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59	59	59	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54	54	54	54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49	49	49	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46	46	46	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42	42	42	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39	39	39	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	240314
5°	241455
10°	243120
15°	245548
20°	241443
25°	230344
30°	209268
35°	168812
40°	117123
45°	76892
50°	51523
55°	36687
60°	31330
65°	36016
70°	38588
75°	37220
80°	33527
85°	30852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.8	6.3
10°-20°	540.2	18.5
20°-30°	771.8	26.4
30°-40°	689.4	23.6
40°-50°	353.6	12.1
50°-60°	160.8	5.5
60°-70°	119.9	4.1
70°-80°	81.6	2.8
80°-90°	24.2	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°	1497.8	51.2
0°-40°	2187.2	74.7
0°-60°	2701.6	92.3
0°-90°	2927.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2927.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1948	
5°	1950	186
15°	1923	540
25°	1692	772
35°	1121	689
45°	441	354
55°	171	161
65°	123	120
75°	78	82
85°	22	24
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1948.3
2.5°	1941.1
5°	1950.1
7.5°	1950.1
10°	1941.1
12.5°	1931.9
15°	1922.9
17.5°	1895.7
20°	1839.4
22.5°	1770.5
25°	1692.5
27.5°	1594.5
30°	1469.3
32.5°	1309.7
35°	1121.1
37.5°	919.8
40°	727.4
42.5°	567.8
45°	440.8
47.5°	344.7
50°	268.5
52.5°	210.4
55°	170.6
57.5°	143.3
60°	127.0
62.5°	123.4
65°	123.4
67.5°	119.7
70°	107.0
72.5°	92.5
75°	78.1
77.5°	61.7
80°	47.2
82.5°	34.5
85°	21.8
87.5°	9.0
90°	0.0



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— 0°-180°







(END OF REPORT)