

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: P580338

Luminaire Tested: **HC430D010-HM43040927-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580338
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: HC430D010-HM43040927-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2215.9 lumens
Efficiency: N/A
Efficacy: 79.1 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

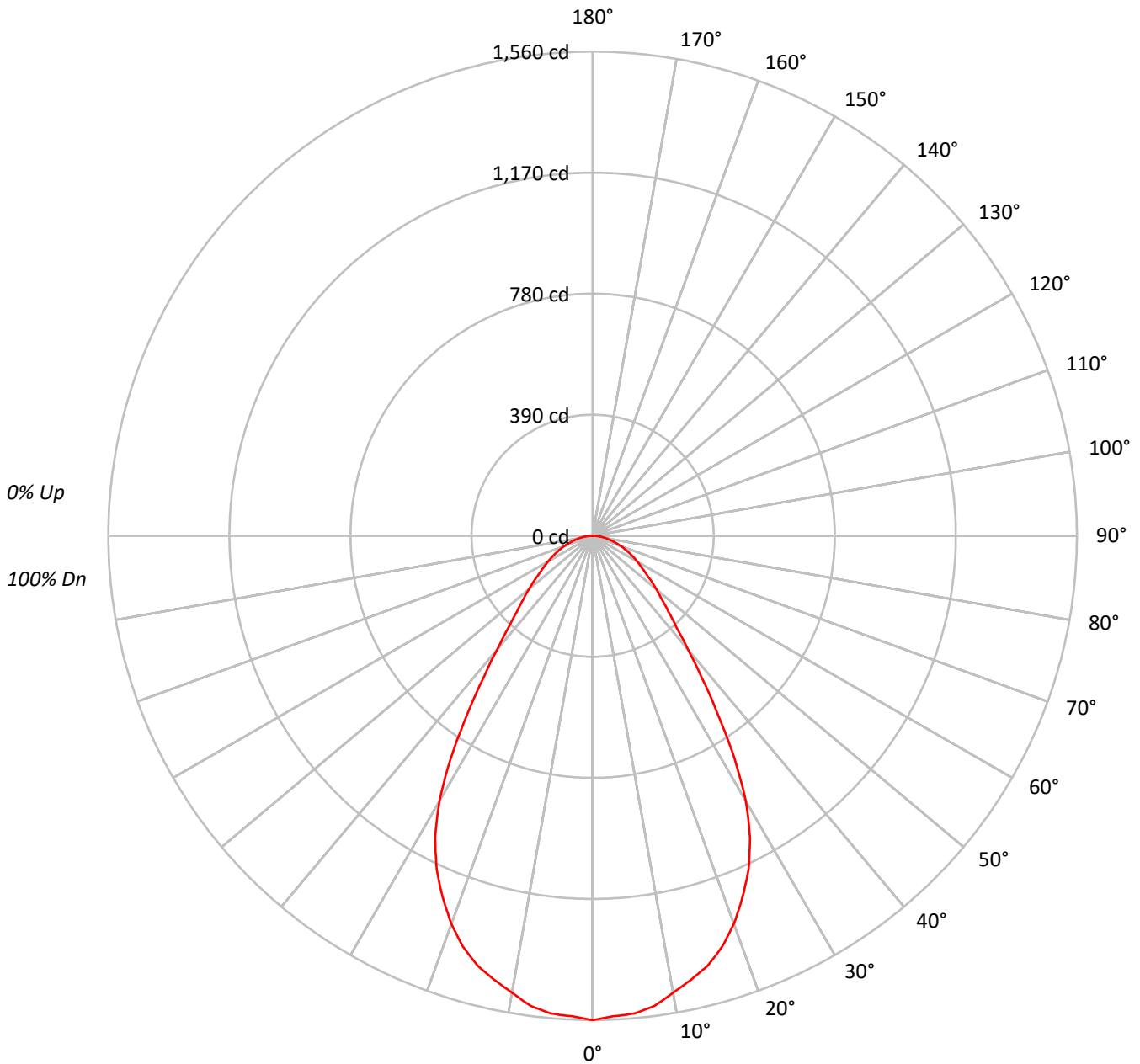
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	92	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°	192481
5°	191285
10°	187209
15°	183066
20°	174617
25°	161642
30°	140590
35°	106157
40°	76934
45°	60128
50°	51408
55°	44472
60°	40951
65°	37504
70°	35018
75°	32073
80°	30047
85°	28871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.9	6.6
10°-20°	401.6	18.1
20°-30°	540.0	24.4
30°-40°	444.0	20.0
40°-50°	272.7	12.3
50°-60°	188.7	8.5
60°-70°	128.6	5.8
70°-80°	71.6	3.2
80°-90°	22.8	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°	1087.5	49.1
0°-40°	1531.5	69.1
0°-60°	1992.8	89.9
0°-90°	2215.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2215.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1560	
5°	1545	146
15°	1434	402
25°	1188	540
35°	705	444
45°	345	273
55°	207	189
65°	128	129
75°	67	72
85°	20	23
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1560.5
2.5°	1549.5
5°	1544.9
7.5°	1527.7
10°	1494.7
12.5°	1464.9
15°	1433.6
17.5°	1388.2
20°	1330.3
22.5°	1261.2
25°	1187.7
27.5°	1098.3
30°	987.1
32.5°	850.7
35°	705.0
37.5°	579.7
40°	477.8
42.5°	399.5
45°	344.7
47.5°	302.4
50°	267.9
52.5°	236.5
55°	206.8
57.5°	184.9
60°	166.0
62.5°	147.3
65°	128.5
67.5°	112.8
70°	97.1
72.5°	81.4
75°	67.3
77.5°	53.2
80°	42.3
82.5°	31.4
85°	20.4
87.5°	10.9
90°	0.0



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— 0°-180°







(END OF REPORT)