

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: P580212

Luminaire Tested: **HC425D010-HM40525930-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580212
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: HC425D010-HM40525930-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1987.0 lumens
Efficiency: N/A
Efficacy: 74.1 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

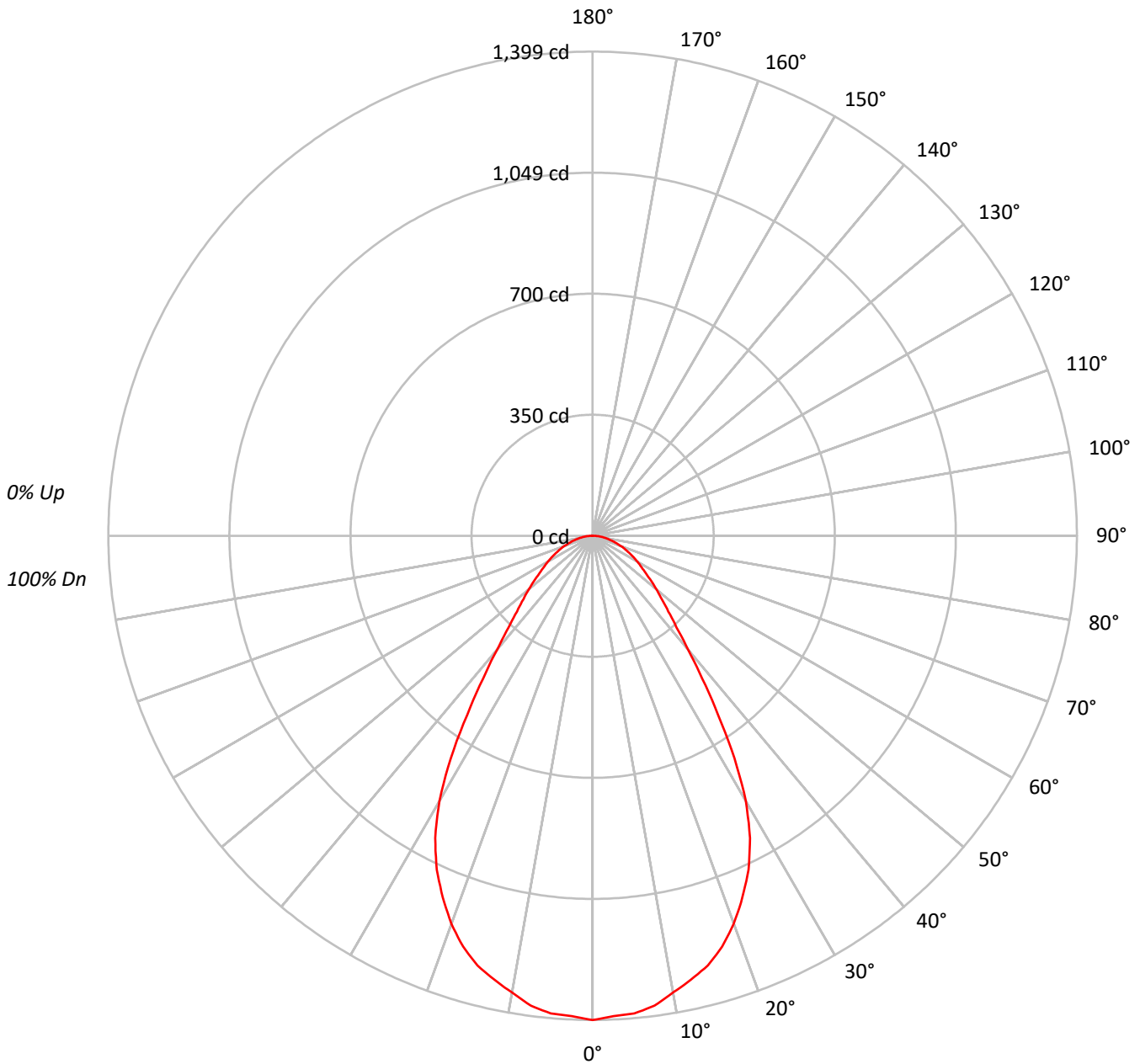
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	172598
5°	171511
10°	167858
15°	164154
20°	156556
25°	144930
30°	126048
35°	95195
40°	68995
45°	53918
50°	46112
55°	39891
60°	36732
65°	33622
70°	31376
75°	28785
80°	26921
85°	25899



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.8	6.6
10°-20°	360.1	18.1
20°-30°	484.2	24.4
30°-40°	398.1	20.0
40°-50°	244.5	12.3
50°-60°	169.2	8.5
60°-70°	115.4	5.8
70°-80°	64.2	3.2
80°-90°	20.4	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°	975.1	49.1
0°-40°	1373.2	69.1
0°-60°	1786.9	89.9
0°-90°	1987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1987.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1399	
5°	1385	131
15°	1286	360
25°	1065	484
35°	632	398
45°	309	245
55°	186	169
65°	115	115
75°	60	64
85°	18	20
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1399.3
2.5°	1389.5
5°	1385.2
7.5°	1369.7
10°	1340.2
12.5°	1313.6
15°	1285.5
17.5°	1244.7
20°	1192.7
22.5°	1130.9
25°	1064.9
27.5°	984.8
30°	885.0
32.5°	762.9
35°	632.2
37.5°	519.8
40°	428.5
42.5°	358.2
45°	309.1
47.5°	271.2
50°	240.3
52.5°	212.1
55°	185.5
57.5°	165.7
60°	148.9
62.5°	132.1
65°	115.2
67.5°	101.2
70°	87.0
72.5°	73.0
75°	60.4
77.5°	47.8
80°	37.9
82.5°	28.1
85°	18.3
87.5°	9.8
90°	0.0



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— 0°-180°







(END OF REPORT)