

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: P592721

Luminaire Tested: **HC425D010-HM40525950-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592721
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-HM40525950-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2168.8 lumens
Efficiency: N/A
Efficacy: 80.9 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

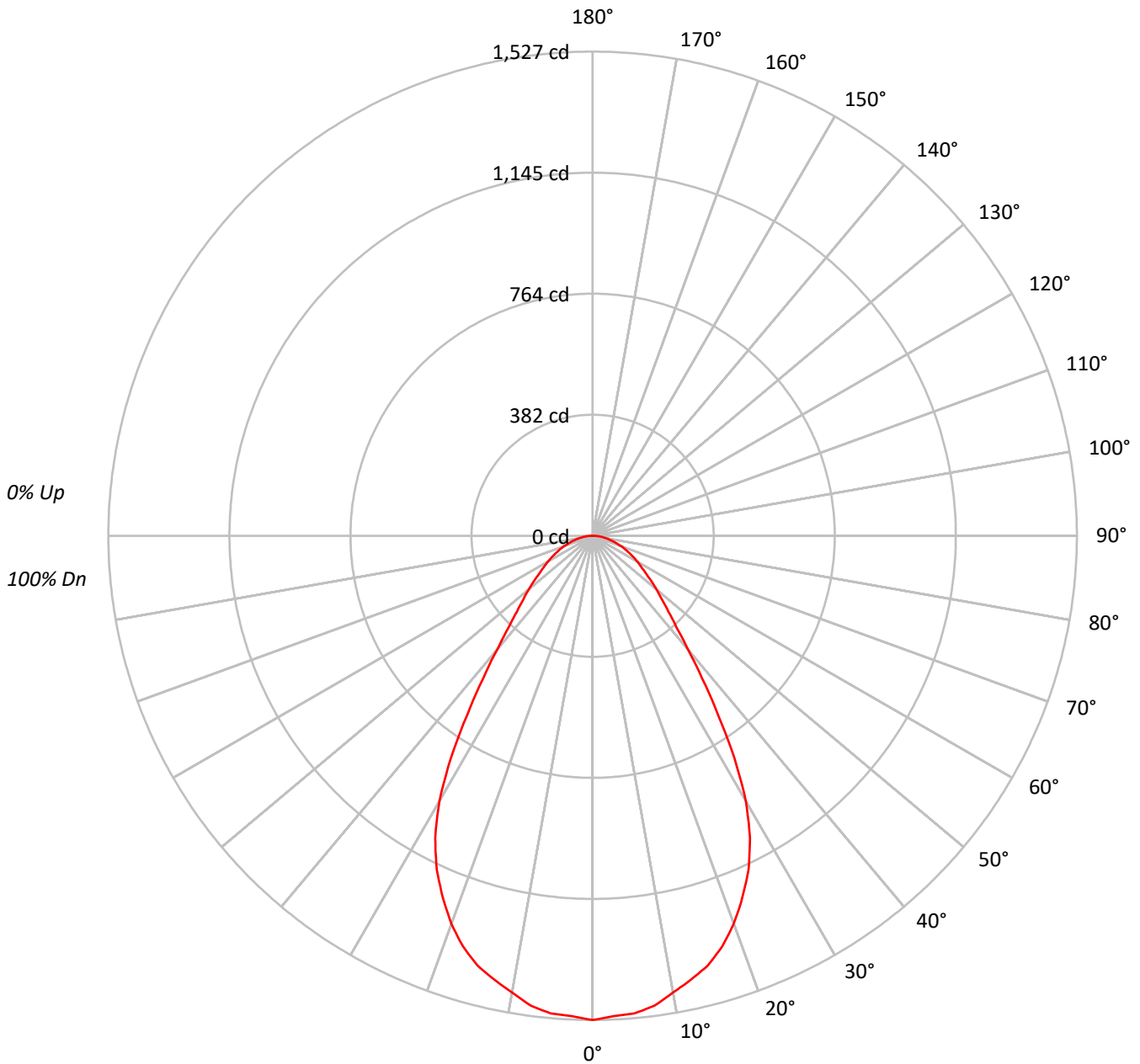
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	188373
5°	187211
10°	183213
15°	179159
20°	170876
25°	158185
30°	137585
35°	103898
40°	75291
45°	58838
50°	50314
55°	43525
60°	40112
65°	36716
70°	34297
75°	31406
80°	29407
85°	28305



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.8	6.6
10°-20°	393.0	18.1
20°-30°	528.5	24.4
30°-40°	434.5	20.0
40°-50°	266.8	12.3
50°-60°	184.7	8.5
60°-70°	125.9	5.8
70°-80°	70.2	3.2
80°-90°	22.3	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°	1064.3	49.1
0°-40°	1498.8	69.1
0°-60°	1950.3	89.9
0°-90°	2168.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2168.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1527	
5°	1512	143
15°	1403	393
25°	1162	528
35°	690	435
45°	337	267
55°	202	185
65°	126	126
75°	66	70
85°	20	22
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1527.2
2.5°	1516.5
5°	1512.0
7.5°	1495.0
10°	1462.8
12.5°	1433.7
15°	1403.0
17.5°	1358.5
20°	1301.8
22.5°	1234.3
25°	1162.3
27.5°	1074.9
30°	966.0
32.5°	832.6
35°	690.0
37.5°	567.3
40°	467.6
42.5°	391.0
45°	337.3
47.5°	295.9
50°	262.2
52.5°	231.6
55°	202.4
57.5°	181.0
60°	162.6
62.5°	144.2
65°	125.8
67.5°	110.4
70°	95.1
72.5°	79.7
75°	65.9
77.5°	52.2
80°	41.4
82.5°	30.7
85°	20.0
87.5°	10.7
90°	0.0



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— 0°-180°







(END OF REPORT)