

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: P580194

Luminaire Tested: **HC425D010-HM40525927-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580194  
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-HM40525927-41PSMDW  
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: 1785.9 lumens  
Efficiency: N/A  
Efficacy: 66.6 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

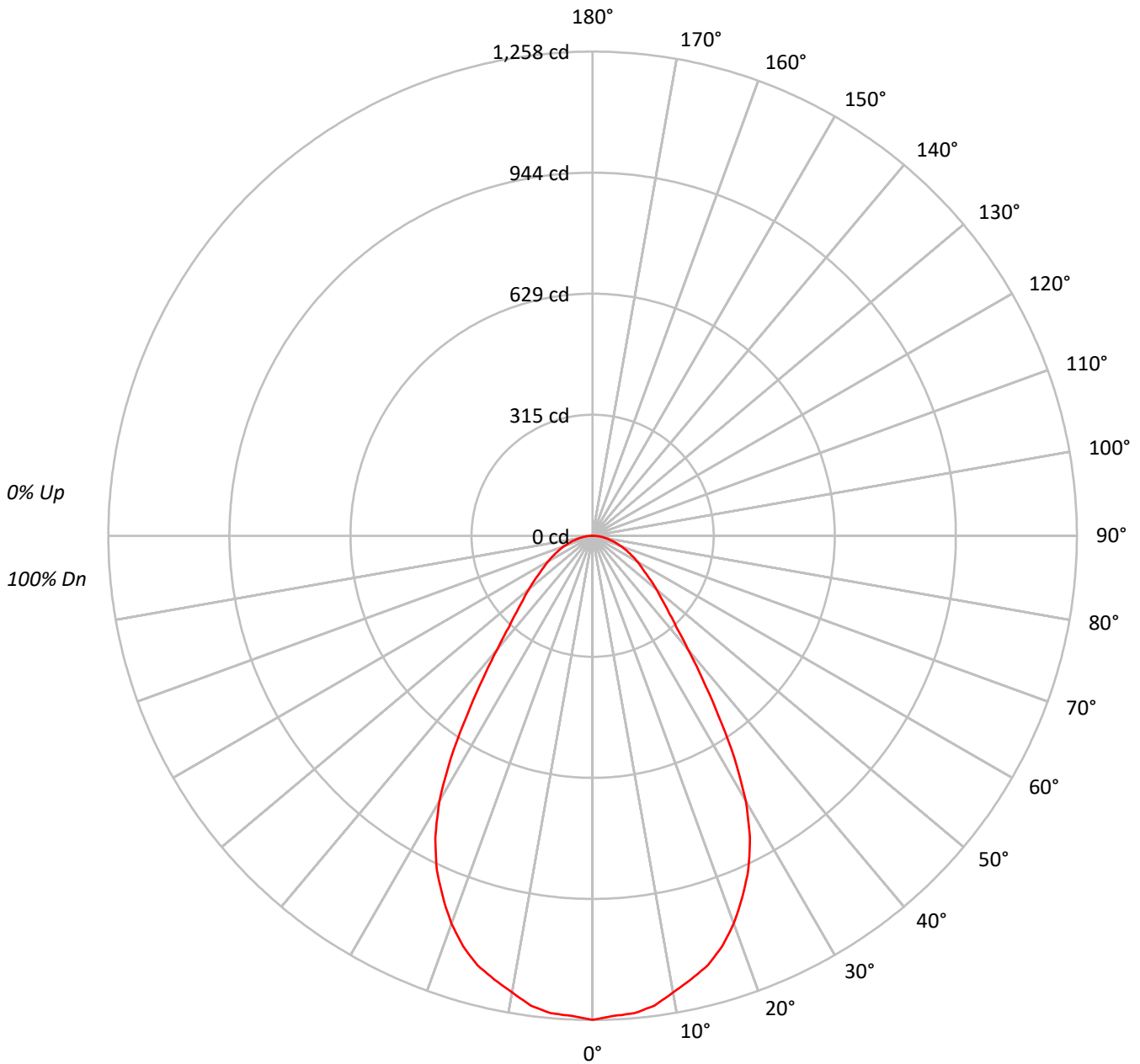
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	155132
5°	154164
10°	150874
15°	147541
20°	140726
25°	130272
30°	113301
35°	85558
40°	62007
45°	48459
50°	41449
55°	35827
60°	33032
65°	30208
70°	28202
75°	25878
80°	24222
85°	23210



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.6	6.6
10°-20°	323.6	18.1
20°-30°	435.2	24.4
30°-40°	357.8	20.0
40°-50°	219.8	12.3
50°-60°	152.1	8.5
60°-70°	103.7	5.8
70°-80°	57.8	3.2
80°-90°	18.4	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°	876.4	49.1
0°-40°	1234.2	69.1
0°-60°	1606.1	89.9
0°-90°	1785.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1785.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1258	
5°	1245	118
15°	1155	324
25°	957	435
35°	568	358
45°	278	220
55°	167	152
65°	104	104
75°	54	58
85°	16	18
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1257.7
2.5°	1248.8
5°	1245.1
7.5°	1231.2
10°	1204.6
12.5°	1180.6
15°	1155.4
17.5°	1118.7
20°	1072.1
22.5°	1016.4
25°	957.2
27.5°	885.1
30°	795.5
32.5°	685.6
35°	568.2
37.5°	467.2
40°	385.1
42.5°	322.0
45°	277.8
47.5°	243.8
50°	216.0
52.5°	190.7
55°	166.6
57.5°	149.0
60°	133.9
62.5°	118.7
65°	103.5
67.5°	90.9
70°	78.2
72.5°	65.7
75°	54.3
77.5°	42.9
80°	34.1
82.5°	25.3
85°	16.4
87.5°	8.8
90°	0.0



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— 0°-180°







(END OF REPORT)