

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: P580114

Luminaire Tested: **HC425D010-HM40525827-41NDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC425D010-HM40525827-41NDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2049.1 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

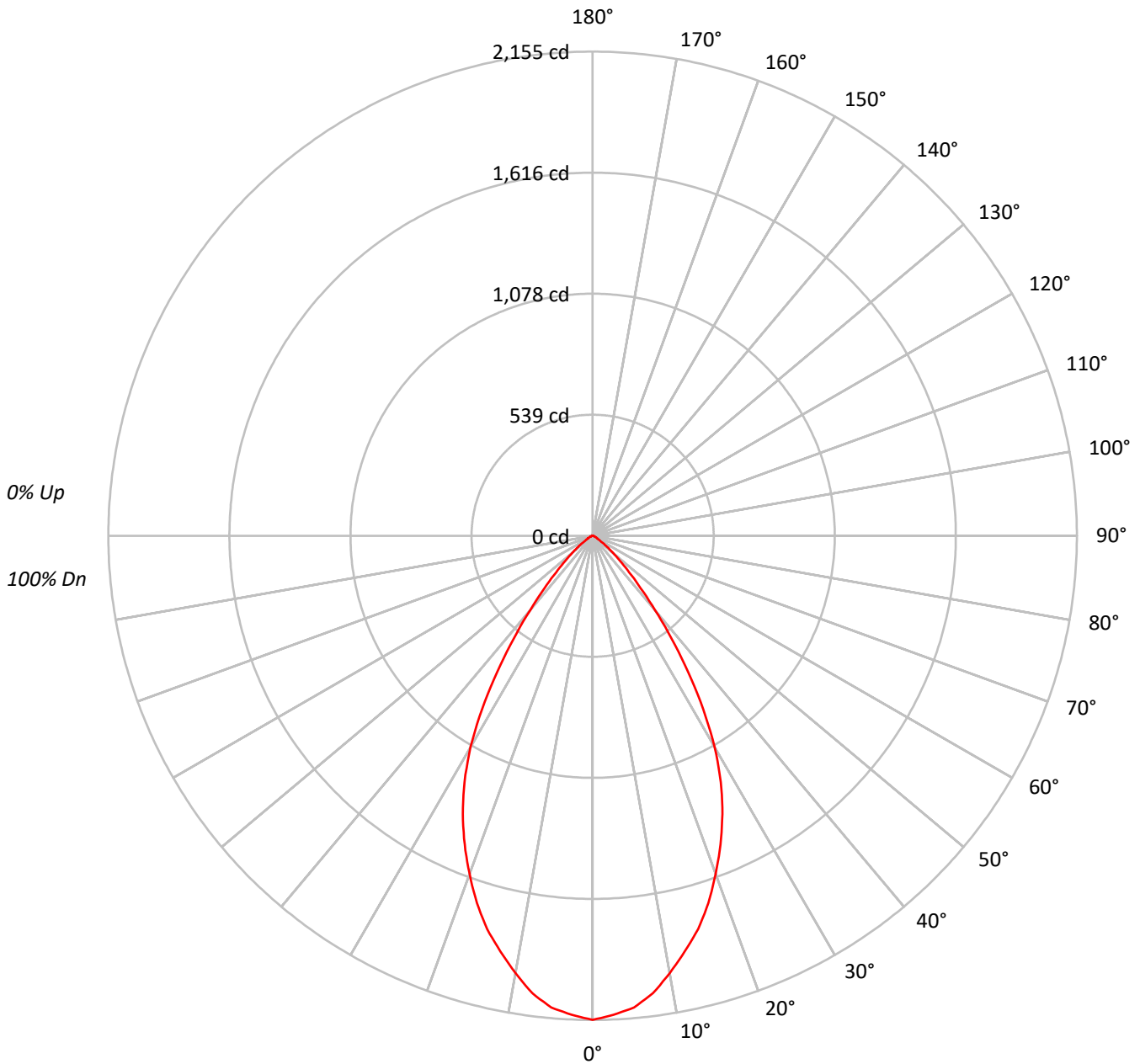
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86	86	86	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	63	63	63	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	51	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48	48	48	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	265773
5°	260944
10°	247516
15°	231438
20°	210189
25°	186004
30°	154704
35°	111548
40°	69623
45°	40155
50°	22662
55°	10774
60°	6192
65°	4757
70°	3174
75°	2097
80°	2060
85°	2123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.0	9.6
10°-20°	505.6	24.7
20°-30°	621.8	30.3
30°-40°	461.8	22.5
40°-50°	187.7	9.2
50°-60°	52.0	2.5
60°-70°	16.2	0.8
70°-80°	5.4	0.3
80°-90°	1.6	0.1
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°	1324.4	64.6
0°-40°	1786.2	87.2
0°-60°	2025.9	98.9
0°-90°	2049.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2049.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2155	
5°	2108	197
15°	1812	506
25°	1367	622
35°	741	462
45°	230	188
55°	50	52
65°	16	16
75°	4	5
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2154.7
2.5°	2134.0
5°	2107.5
7.5°	2054.3
10°	1976.2
12.5°	1895.0
15°	1812.4
17.5°	1713.5
20°	1601.3
22.5°	1487.7
25°	1366.7
27.5°	1235.2
30°	1086.2
32.5°	916.5
35°	740.8
37.5°	575.6
40°	432.4
42.5°	315.8
45°	230.2
47.5°	165.3
50°	118.1
52.5°	81.2
55°	50.1
57.5°	32.5
60°	25.1
62.5°	20.7
65°	16.3
67.5°	11.9
70°	8.8
72.5°	7.3
75°	4.4
77.5°	2.9
80°	2.9
82.5°	1.5
85°	1.5
87.5°	1.5
90°	0.0



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— 0°-180°







(END OF REPORT)