

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: P580115

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC425D010-HM40525827-41WDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2357.7 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

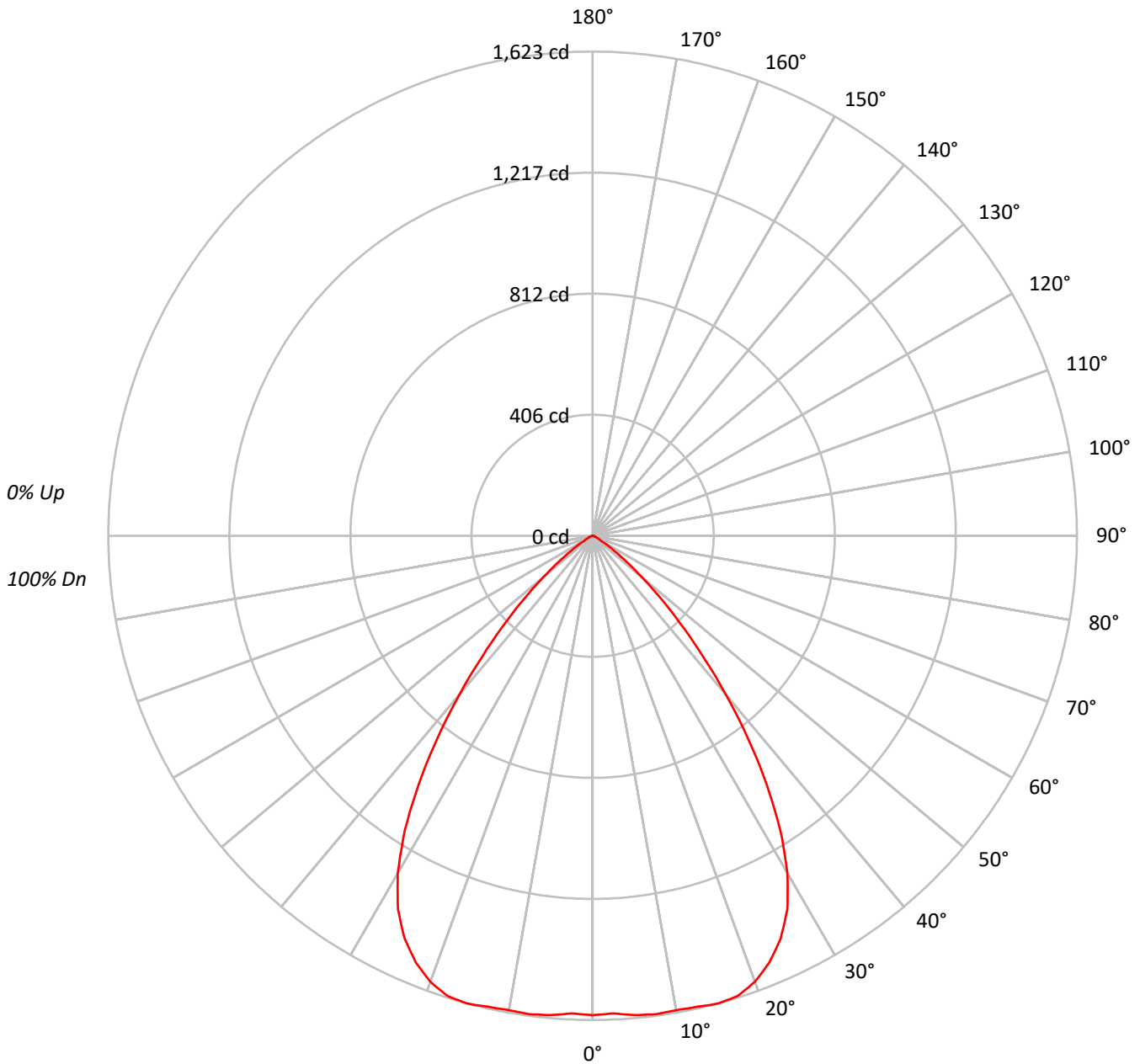
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92			92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84			84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76			76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69			69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63			63
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58			58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53			53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49			49
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45			45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42			42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	198229
5°	199716
10°	202214
15°	207303
20°	208824
25°	202839
30°	185982
35°	153017
40°	111552
45°	72391
50°	40815
55°	19376
60°	7647
65°	4757
70°	3174
75°	2097
80°	1065
85°	2123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.0	6.5
10°-20°	457.7	19.4
20°-30°	678.8	28.8
30°-40°	627.0	26.6
40°-50°	327.4	13.9
50°-60°	89.7	3.8
60°-70°	17.3	0.7
70°-80°	4.8	0.2
80°-90°	1.0	0.0
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°	1290.5	54.7
0°-40°	1917.4	81.3
0°-60°	2334.5	99.0
0°-90°	2357.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2357.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1607	
5°	1613	154
15°	1623	458
25°	1490	679
35°	1016	627
45°	415	327
55°	90	90
65°	16	17
75°	4	5
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1607.1
2.5°	1602.6
5°	1613.0
7.5°	1617.4
10°	1614.5
12.5°	1617.4
15°	1623.4
17.5°	1617.4
20°	1590.9
22.5°	1548.0
25°	1490.4
27.5°	1412.2
30°	1305.8
32.5°	1171.3
35°	1016.2
37.5°	853.7
40°	692.8
42.5°	545.1
45°	415.0
47.5°	304.3
50°	212.7
52.5°	141.8
55°	90.1
57.5°	53.2
60°	31.0
62.5°	22.1
65°	16.3
67.5°	11.9
70°	8.8
72.5°	5.9
75°	4.4
77.5°	2.9
80°	1.5
82.5°	1.5
85°	1.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)