

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: P592695

Luminaire Tested: **HC425D010-HM40525850-41NDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592695
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-HM40525850-41NDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2364.1 lumens
Efficiency: N/A
Efficacy: 88.2 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

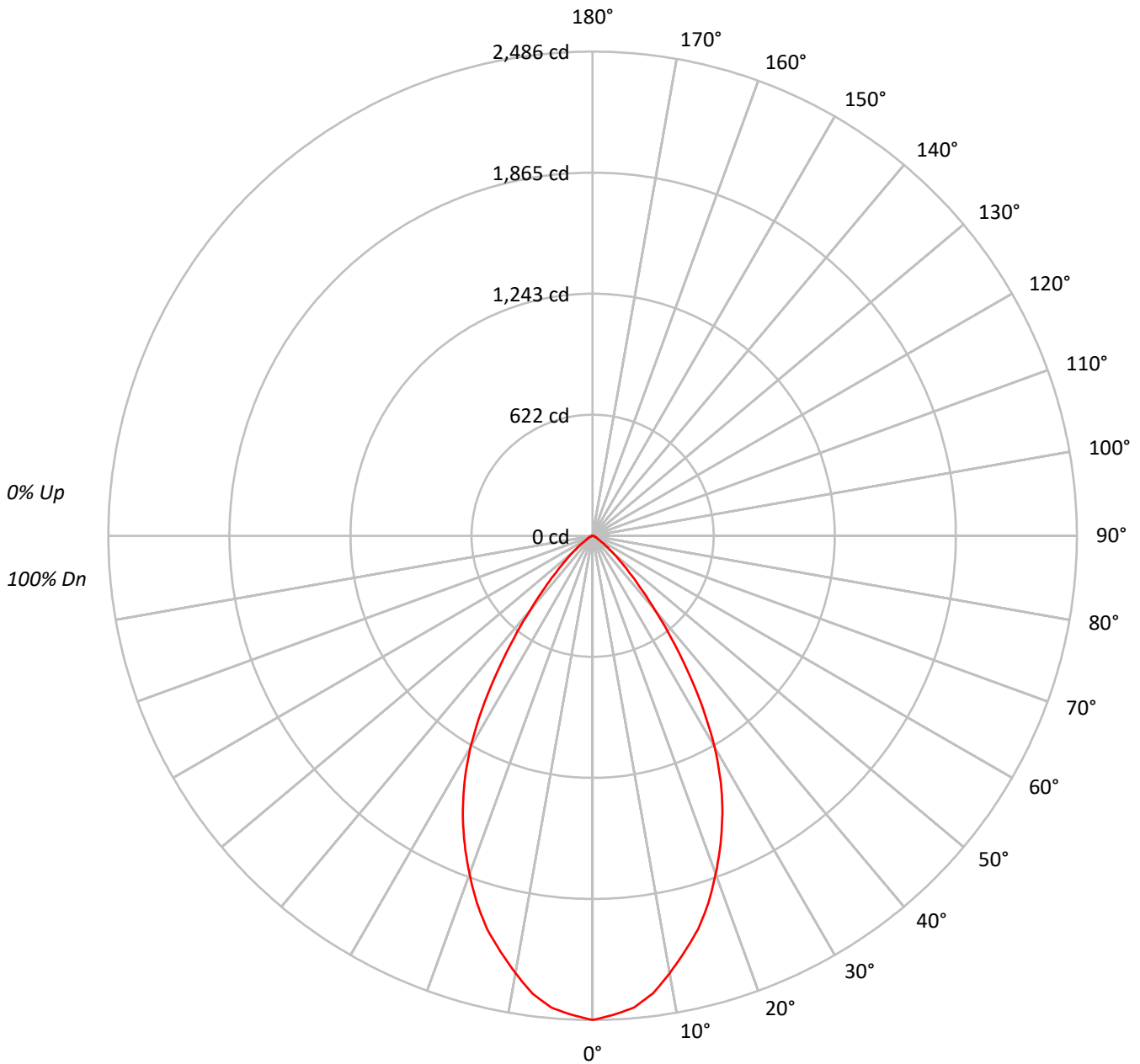
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	306625
5°	301048
10°	285554
15°	267001
20°	242493
25°	214570
30°	178490
35°	128713
40°	80331
45°	46348
50°	26155
55°	12451
60°	7129
65°	5458
70°	3679
75°	2431
80°	2415
85°	2406



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.3	9.6
10°-20°	583.3	24.7
20°-30°	717.4	30.3
30°-40°	532.8	22.5
40°-50°	216.6	9.2
50°-60°	60.0	2.5
60°-70°	18.7	0.8
70°-80°	6.3	0.3
80°-90°	1.9	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°	1527.9	64.6
0°-40°	2060.7	87.2
0°-60°	2337.3	98.9
0°-90°	2364.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2364.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2486	
5°	2431	227
15°	2091	583
25°	1577	717
35°	855	533
45°	266	217
55°	58	60
65°	19	19
75°	5	6
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2485.9
2.5°	2462.1
5°	2431.4
7.5°	2370.1
10°	2279.9
12.5°	2186.2
15°	2090.9
17.5°	1976.8
20°	1847.4
22.5°	1716.3
25°	1576.6
27.5°	1425.1
30°	1253.2
32.5°	1057.3
35°	854.8
37.5°	664.1
40°	498.9
42.5°	364.3
45°	265.7
47.5°	190.7
50°	136.3
52.5°	93.6
55°	57.9
57.5°	37.5
60°	28.9
62.5°	23.8
65°	18.7
67.5°	13.7
70°	10.2
72.5°	8.5
75°	5.1
77.5°	3.4
80°	3.4
82.5°	1.7
85°	1.7
87.5°	1.7
90°	0.0



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— 0°-180°







(END OF REPORT)