

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: P580130

Luminaire Tested: **HC425D010-HM40525830-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC425D010-HM40525830-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2580.8 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

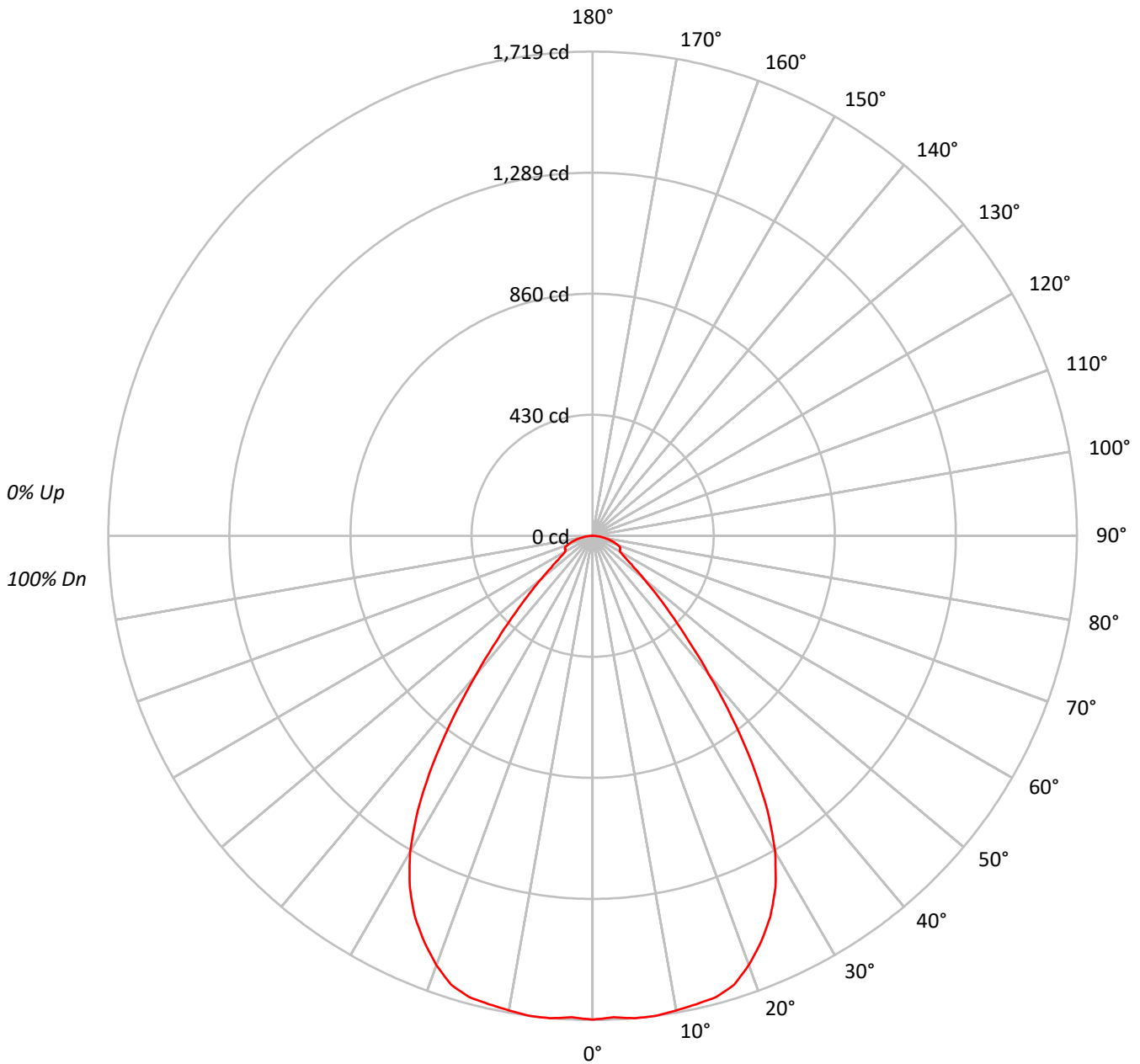
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	211883
5°	212891
10°	214338
15°	216484
20°	212880
25°	203084
30°	184515
35°	148831
40°	103276
45°	67786
50°	45440
55°	32343
60°	27629
65°	31725
70°	34044
75°	32788
80°	29478
85°	27172



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.9	6.3
10°-20°	476.3	18.5
20°-30°	680.4	26.4
30°-40°	607.8	23.6
40°-50°	311.8	12.1
50°-60°	141.7	5.5
60°-70°	105.7	4.1
70°-80°	71.9	2.8
80°-90°	21.3	0.8
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°	1320.6	51.2
0°-40°	1928.4	74.7
0°-60°	2381.9	92.3
0°-90°	2580.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2580.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1718	
5°	1719	164
15°	1695	476
25°	1492	680
35°	988	608
45°	389	312
55°	150	142
65°	109	106
75°	69	72
85°	19	21
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1717.8
2.5°	1711.3
5°	1719.4
7.5°	1719.4
10°	1711.3
12.5°	1703.3
15°	1695.3
17.5°	1671.4
20°	1621.8
22.5°	1561.0
25°	1492.2
27.5°	1405.8
30°	1295.5
32.5°	1154.7
35°	988.4
37.5°	810.8
40°	641.4
42.5°	500.6
45°	388.6
47.5°	303.9
50°	236.8
52.5°	185.5
55°	150.4
57.5°	126.3
60°	112.0
62.5°	108.7
65°	108.7
67.5°	105.6
70°	94.4
72.5°	81.5
75°	68.8
77.5°	54.4
80°	41.5
82.5°	30.4
85°	19.2
87.5°	8.0
90°	0.0



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— 0°-180°







(END OF REPORT)