

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: P580976

Luminaire Tested: **HC405D010-HM40525827-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580976
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: HC405D010-HM40525827-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 644.2 lumens
Efficiency: N/A
Efficacy: 107.4 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

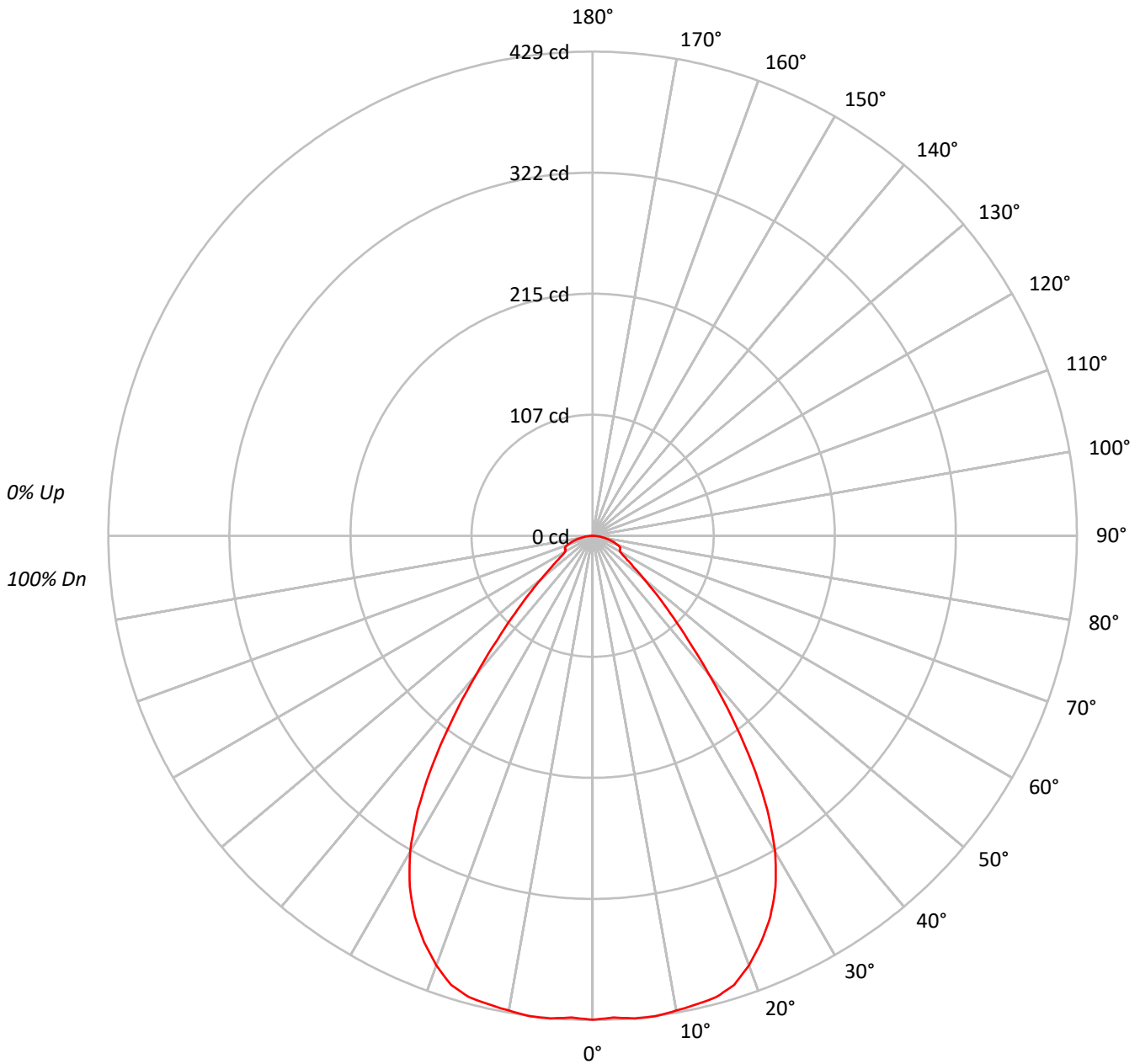
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	52891
5°	53155
10°	53506
15°	54041
20°	53148
25°	50696
30°	46075
35°	37147
40°	25779
45°	16920
50°	11341
55°	8086
60°	6883
65°	7909
70°	8511
75°	8149
80°	7316
85°	6793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.9	6.3
10°-20°	118.9	18.5
20°-30°	169.9	26.4
30°-40°	151.8	23.6
40°-50°	77.8	12.1
50°-60°	35.4	5.5
60°-70°	26.3	4.1
70°-80°	17.9	2.8
80°-90°	5.3	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°	329.7	51.2
0°-40°	481.4	74.7
0°-60°	594.7	92.3
0°-90°	644.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	644.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	429	
5°	429	41
15°	423	119
25°	372	170
35°	247	152
45°	97	78
55°	38	35
65°	27	26
75°	17	18
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	428.8
2.5°	427.2
5°	429.3
7.5°	429.3
10°	427.2
12.5°	425.3
15°	423.2
17.5°	417.2
20°	404.9
22.5°	389.8
25°	372.5
27.5°	350.9
30°	323.5
32.5°	288.3
35°	246.7
37.5°	202.5
40°	160.1
42.5°	125.0
45°	97.0
47.5°	75.8
50°	59.1
52.5°	46.3
55°	37.6
57.5°	31.6
60°	27.9
62.5°	27.1
65°	27.1
67.5°	26.3
70°	23.6
72.5°	20.3
75°	17.1
77.5°	13.6
80°	10.3
82.5°	7.6
85°	4.8
87.5°	2.0
90°	0.0



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— 0°-180°







(END OF REPORT)