

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: P579847

Luminaire Tested: **HC415D010-HM40525830-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579847
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: HC415D010-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: 1554.4 lumens
Efficiency: N/A
Efficacy: 111.0 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

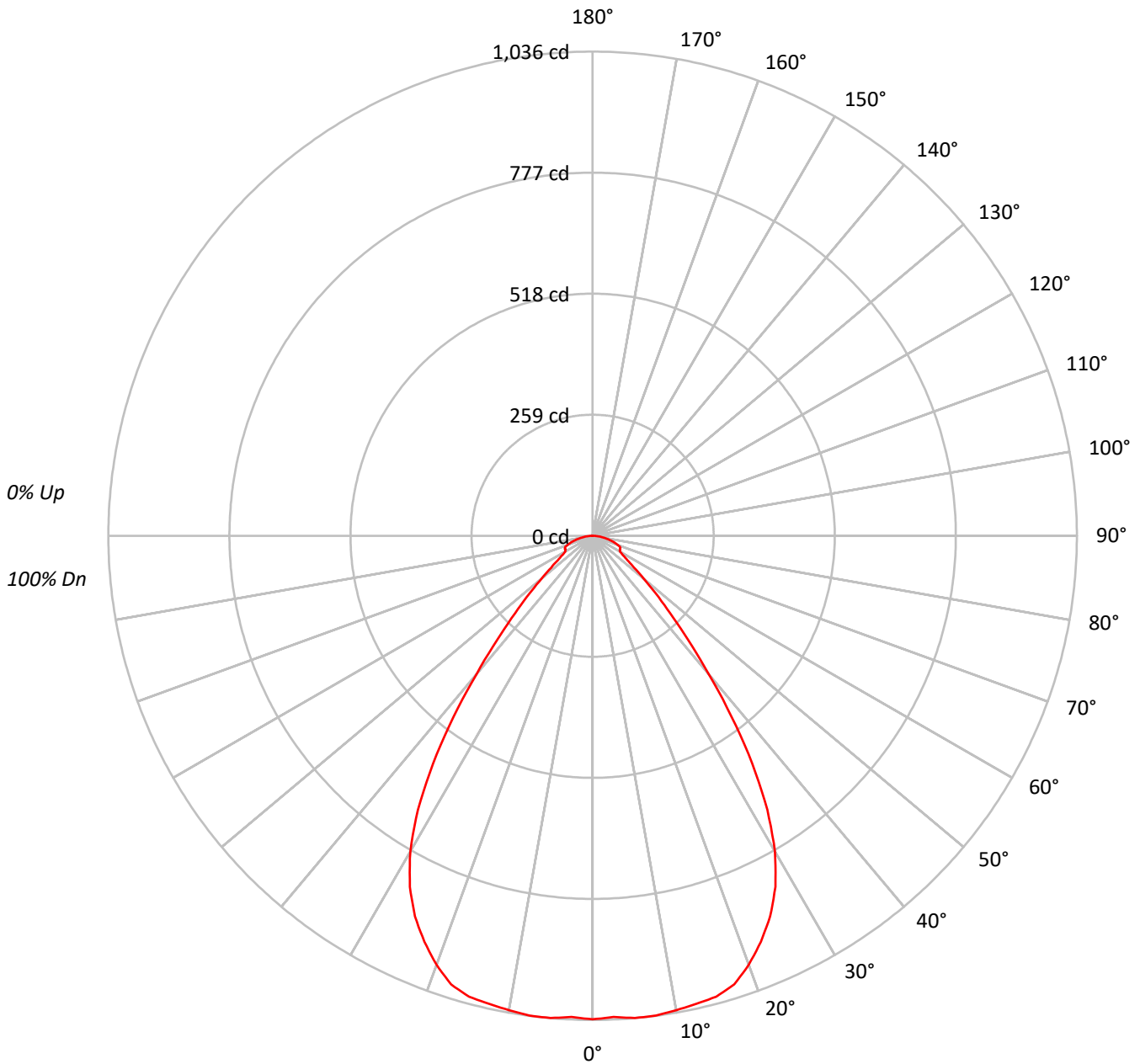
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	127613
5°	128225
10°	129106
15°	130391
20°	128216
25°	122324
30°	111136
35°	89639
40°	62184
45°	40836
50°	27364
55°	19462
60°	16627
65°	19117
70°	20484
75°	19730
80°	17758
85°	16417



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.7	6.3
10°-20°	286.9	18.5
20°-30°	409.8	26.4
30°-40°	366.1	23.6
40°-50°	187.8	12.1
50°-60°	85.4	5.5
60°-70°	63.7	4.1
70°-80°	43.3	2.8
80°-90°	12.8	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°	795.4	51.2
0°-40°	1161.5	74.7
0°-60°	1434.6	92.3
0°-90°	1554.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1554.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1035	
5°	1036	99
15°	1021	287
25°	899	410
35°	595	366
45°	234	188
55°	90	85
65°	66	64
75°	41	43
85°	12	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1034.6
2.5°	1030.8
5°	1035.6
7.5°	1035.6
10°	1030.8
12.5°	1025.9
15°	1021.1
17.5°	1006.7
20°	976.8
22.5°	940.2
25°	898.8
27.5°	846.7
30°	780.3
32.5°	695.5
35°	595.3
37.5°	488.5
40°	386.2
42.5°	301.5
45°	234.1
47.5°	183.1
50°	142.6
52.5°	111.8
55°	90.5
57.5°	76.1
60°	67.4
62.5°	65.5
65°	65.5
67.5°	63.6
70°	56.8
72.5°	49.1
75°	41.4
77.5°	32.7
80°	25.0
82.5°	18.3
85°	11.6
87.5°	4.8
90°	0.0



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— 0°-180°







(END OF REPORT)