

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: P579937

Luminaire Tested: **HC415D010-HM40525935-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579937
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-HM40525935-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1439.0 lumens
Efficiency: N/A
Efficacy: 102.8 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

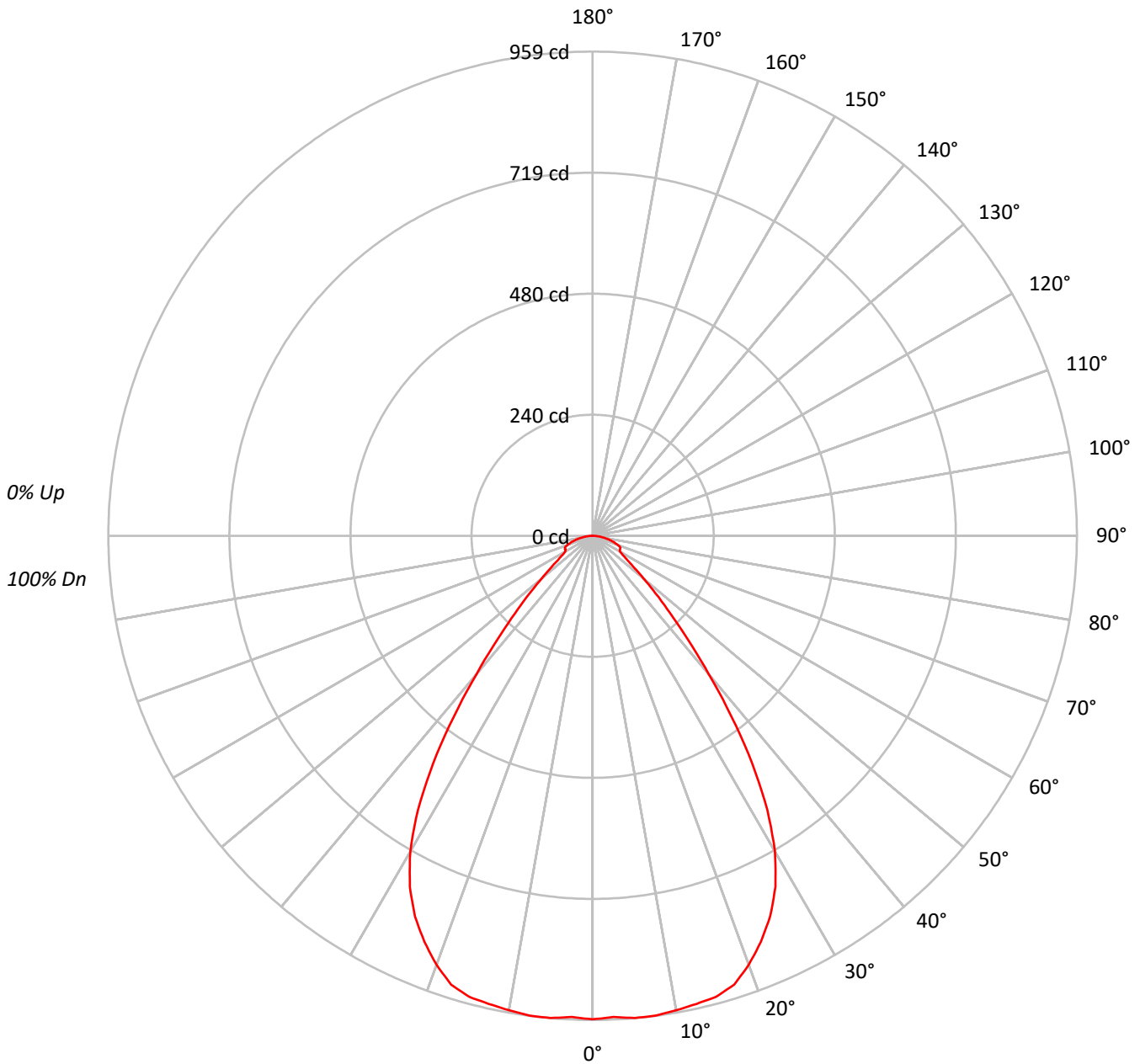
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	118128
5°	118691
10°	119512
15°	120712
20°	118700
25°	113219
30°	102875
35°	82983
40°	57579
45°	37801
50°	25330
55°	18021
60°	15394
65°	17687
70°	18970
75°	18253
80°	16479
85°	15143



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	6.3
10°-20°	265.5	18.5
20°-30°	379.4	26.4
30°-40°	338.9	23.6
40°-50°	173.8	12.1
50°-60°	79.0	5.5
60°-70°	58.9	4.1
70°-80°	40.1	2.8
80°-90°	11.9	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°	736.3	51.2
0°-40°	1075.2	74.7
0°-60°	1328.1	92.3
0°-90°	1439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1439.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	958	
5°	959	91
15°	945	266
25°	832	379
35°	551	339
45°	217	174
55°	84	79
65°	61	59
75°	38	40
85°	11	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	957.7
2.5°	954.2
5°	958.6
7.5°	958.6
10°	954.2
12.5°	949.7
15°	945.3
17.5°	931.9
20°	904.3
22.5°	870.4
25°	831.9
27.5°	783.8
30°	722.3
32.5°	643.9
35°	551.1
37.5°	452.1
40°	357.6
42.5°	279.1
45°	216.7
47.5°	169.4
50°	132.0
52.5°	103.5
55°	83.8
57.5°	70.5
60°	62.4
62.5°	60.6
65°	60.6
67.5°	58.9
70°	52.6
72.5°	45.5
75°	38.3
77.5°	30.4
80°	23.2
82.5°	16.9
85°	10.7
87.5°	4.4
90°	0.0



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— 0°-180°







(END OF REPORT)