

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: P579890

Luminaire Tested: **HC415D010-HM40525840-41WDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC415D010-HM40525840-41WDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1740.8 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

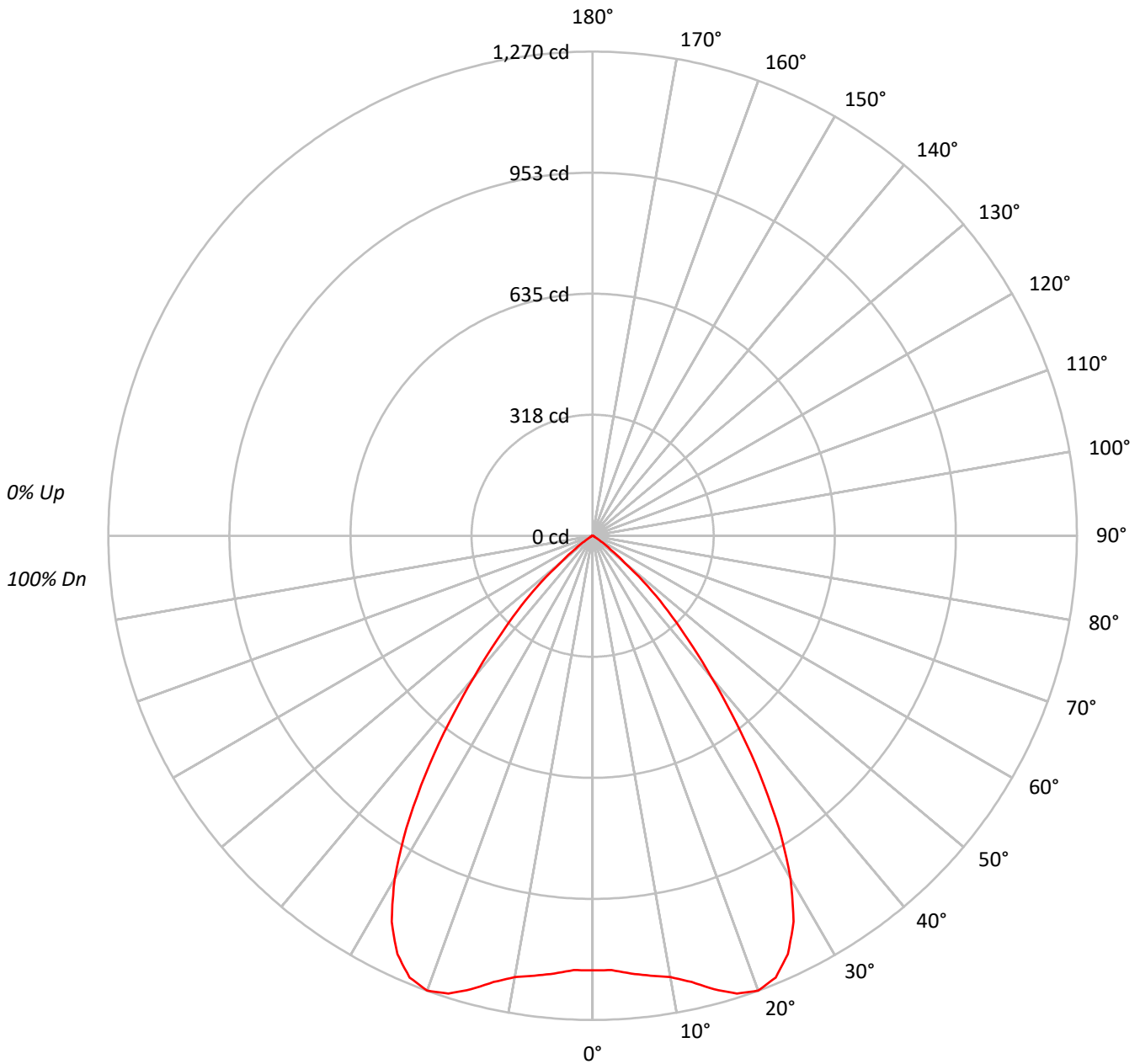
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92				92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85				85
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77				77
4	95	86	80	76	93	85	79	75	83	78	74	81	77	73	79	75	72	71				71
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65				65
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	65	61	60				60
7	79	69	62	57	78	68	62	57	67	61	57	66	60	57	64	60	56	55				55
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51				51
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47				47
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43				43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	140639
5°	142699
10°	147179
15°	157259
20°	166637
25°	164813
30°	147911
35°	115116
40°	77996
45°	48685
50°	21070
55°	7075
60°	1776
65°	1197
70°	721
75°	477
80°	710
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	6.4
10°-20°	349.6	20.1
20°-30°	547.8	31.5
30°-40°	472.7	27.2
40°-50°	217.4	12.5
50°-60°	36.9	2.1
60°-70°	4.2	0.2
70°-80°	1.4	0.1
80°-90°	0.1	0.0
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°	1008.0	57.9
0°-40°	1480.8	85.1
0°-60°	1735.1	99.7
0°-90°	1740.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1740.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1140	
5°	1152	111
15°	1232	350
25°	1211	548
35°	764	473
45°	279	217
55°	33	37
65°	4	4
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1140.2
2.5°	1140.2
5°	1152.5
7.5°	1163.8
10°	1175.1
12.5°	1198.6
15°	1231.5
17.5°	1259.2
20°	1269.5
22.5°	1254.1
25°	1211.0
27.5°	1141.2
30°	1038.5
32.5°	909.3
35°	764.5
37.5°	618.9
40°	484.4
42.5°	370.4
45°	279.1
47.5°	196.0
50°	109.8
52.5°	60.6
55°	32.9
57.5°	16.4
60°	7.2
62.5°	5.1
65°	4.1
67.5°	3.1
70°	2.0
72.5°	2.0
75°	1.0
77.5°	1.0
80°	1.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)