

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: P579873

Luminaire Tested: **HC415D010-HM40525835-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC415D010-HM40525835-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1441.5 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

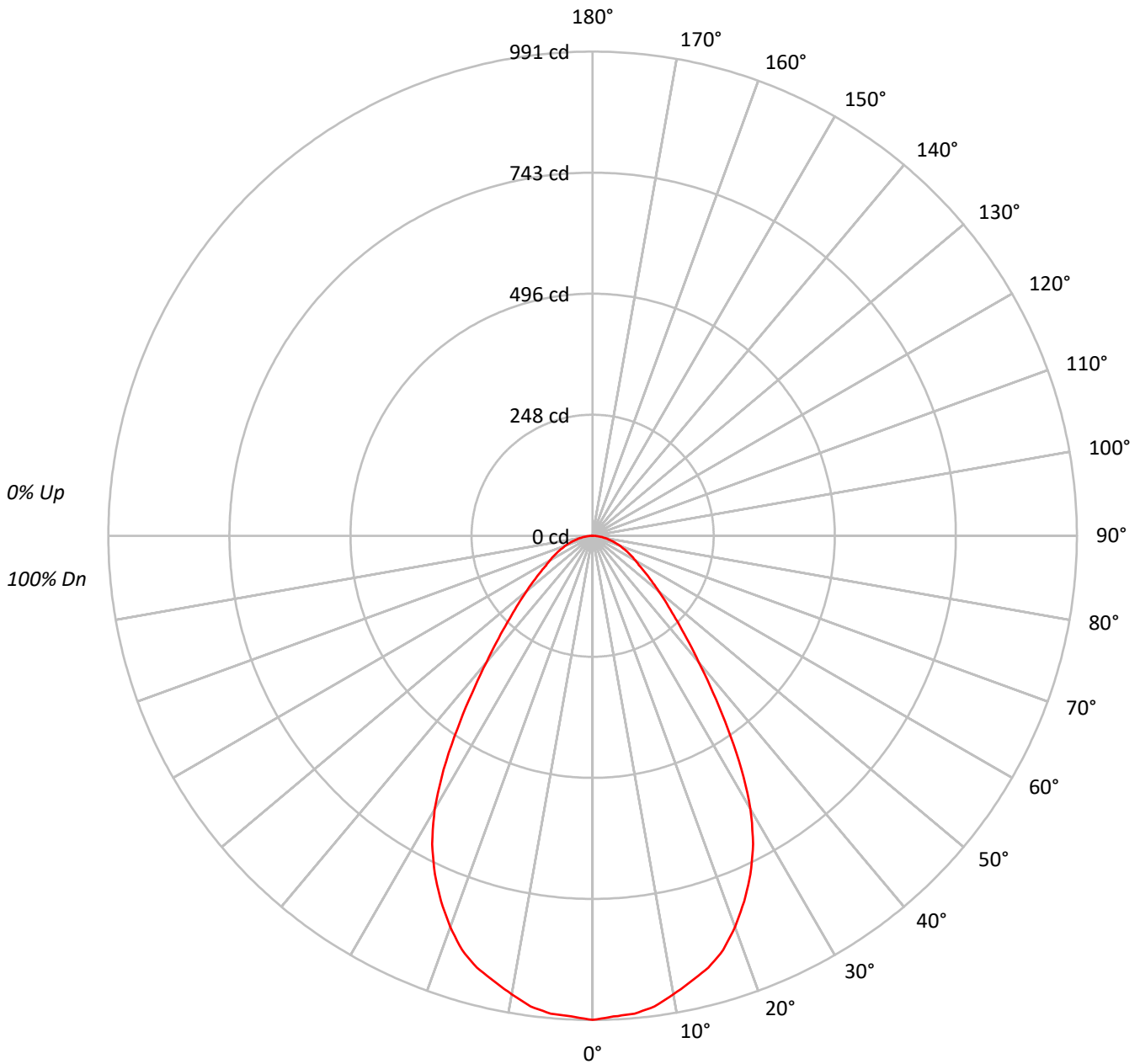
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	122211
5°	121563
10°	119349
15°	116830
20°	111835
25°	103992
30°	92051
35°	72638
40°	54359
45°	41813
50°	33926
55°	28150
60°	24891
65°	23028
70°	21242
75°	19492
80°	17758
85°	14152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.8	6.4
10°-20°	256.6	17.8
20°-30°	348.4	24.2
30°-40°	301.8	20.9
40°-50°	189.5	13.1
50°-60°	119.2	8.3
60°-70°	78.3	5.4
70°-80°	43.2	3.0
80°-90°	11.8	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°	697.8	48.4
0°-40°	999.6	69.3
0°-60°	1308.3	90.8
0°-90°	1441.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1441.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	991	
5°	982	93
15°	915	257
25°	764	348
35°	482	302
45°	240	189
55°	131	119
65°	79	78
75°	41	43
85°	10	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	990.8
2.5°	984.9
5°	981.8
7.5°	971.8
10°	952.9
12.5°	933.9
15°	914.9
17.5°	888.9
20°	852.0
22.5°	810.0
25°	764.1
27.5°	711.2
30°	646.3
32.5°	567.4
35°	482.4
37.5°	404.5
40°	337.6
42.5°	284.7
45°	239.7
47.5°	205.8
50°	176.8
52.5°	151.8
55°	130.9
57.5°	112.9
60°	100.9
62.5°	89.9
65°	78.9
67.5°	67.9
70°	58.9
72.5°	48.9
75°	40.9
77.5°	31.9
80°	25.0
82.5°	16.9
85°	10.0
87.5°	4.0
90°	0.0



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— 0°-180°







(END OF REPORT)