

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: P579891

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579891
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-HM40525840-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1481.4 lumens
Efficiency: N/A
Efficacy: 105.8 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

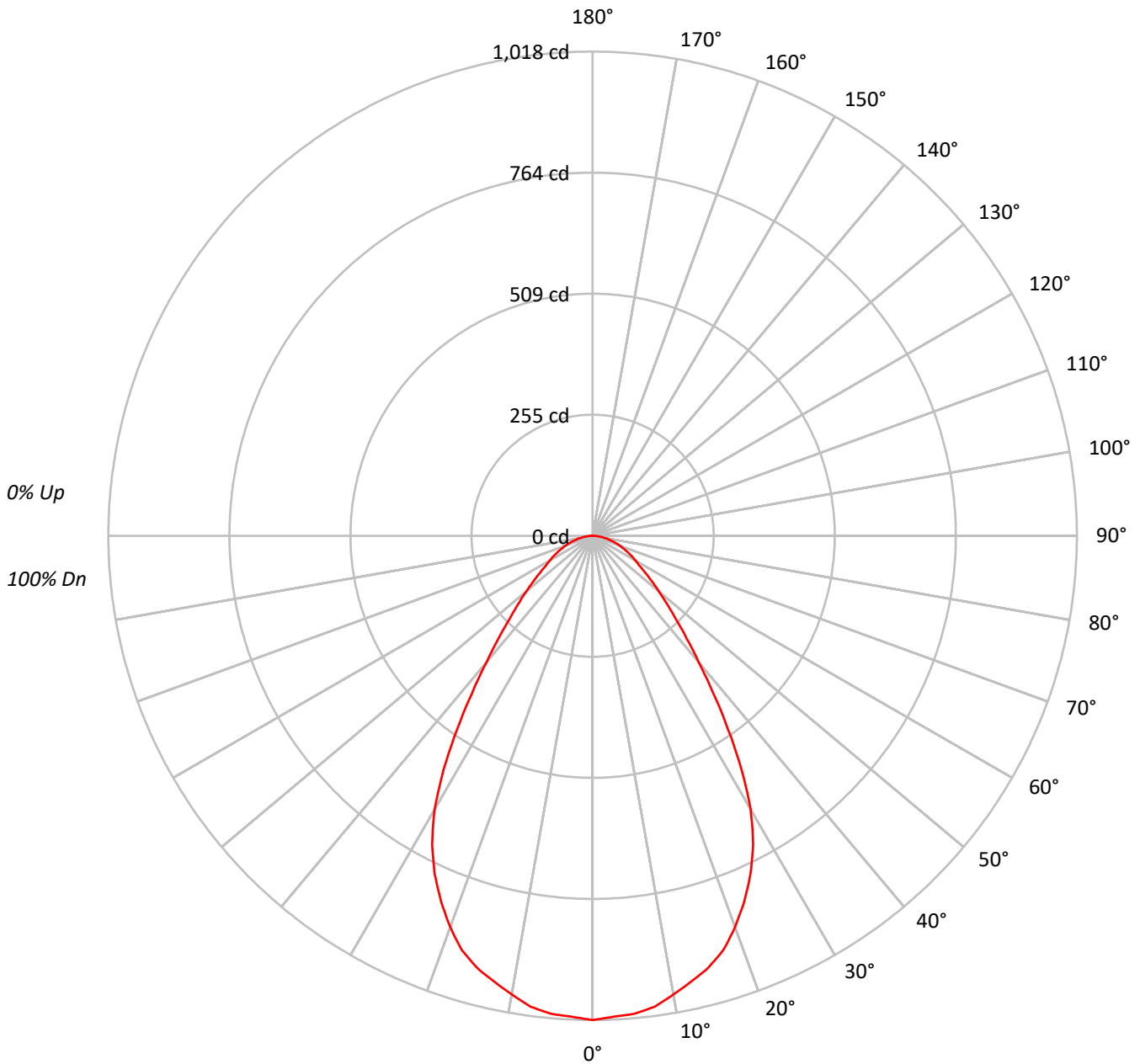
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	125591
5°	124931
10°	122643
15°	120061
20°	114920
25°	106863
30°	94586
35°	74641
40°	55857
45°	42981
50°	34867
55°	28924
60°	25582
65°	23670
70°	21855
75°	20064
80°	18255
85°	14435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	6.4
10°-20°	263.7	17.8
20°-30°	358.0	24.2
30°-40°	310.1	20.9
40°-50°	194.7	13.1
50°-60°	122.5	8.3
60°-70°	80.5	5.4
70°-80°	44.4	3.0
80°-90°	12.1	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°	717.0	48.4
0°-40°	1027.1	69.3
0°-60°	1344.4	90.8
0°-90°	1481.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1481.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1018	
5°	1009	95
15°	940	264
25°	785	358
35°	496	310
45°	246	195
55°	134	123
65°	81	80
75°	42	44
85°	10	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1018.2
2.5°	1012.0
5°	1009.0
7.5°	998.6
10°	979.2
12.5°	959.6
15°	940.2
17.5°	913.5
20°	875.5
22.5°	832.4
25°	785.2
27.5°	730.7
30°	664.1
32.5°	582.9
35°	495.7
37.5°	415.7
40°	346.9
42.5°	292.6
45°	246.4
47.5°	211.5
50°	181.7
52.5°	156.0
55°	134.5
57.5°	116.0
60°	103.7
62.5°	92.3
65°	81.1
67.5°	69.8
70°	60.6
72.5°	50.3
75°	42.1
77.5°	32.9
80°	25.7
82.5°	17.4
85°	10.2
87.5°	4.1
90°	0.0



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— 0°-180°







(END OF REPORT)