

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: P579855

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579855
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-HM40525830-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1390.8 lumens
Efficiency: N/A
Efficacy: 99.3 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

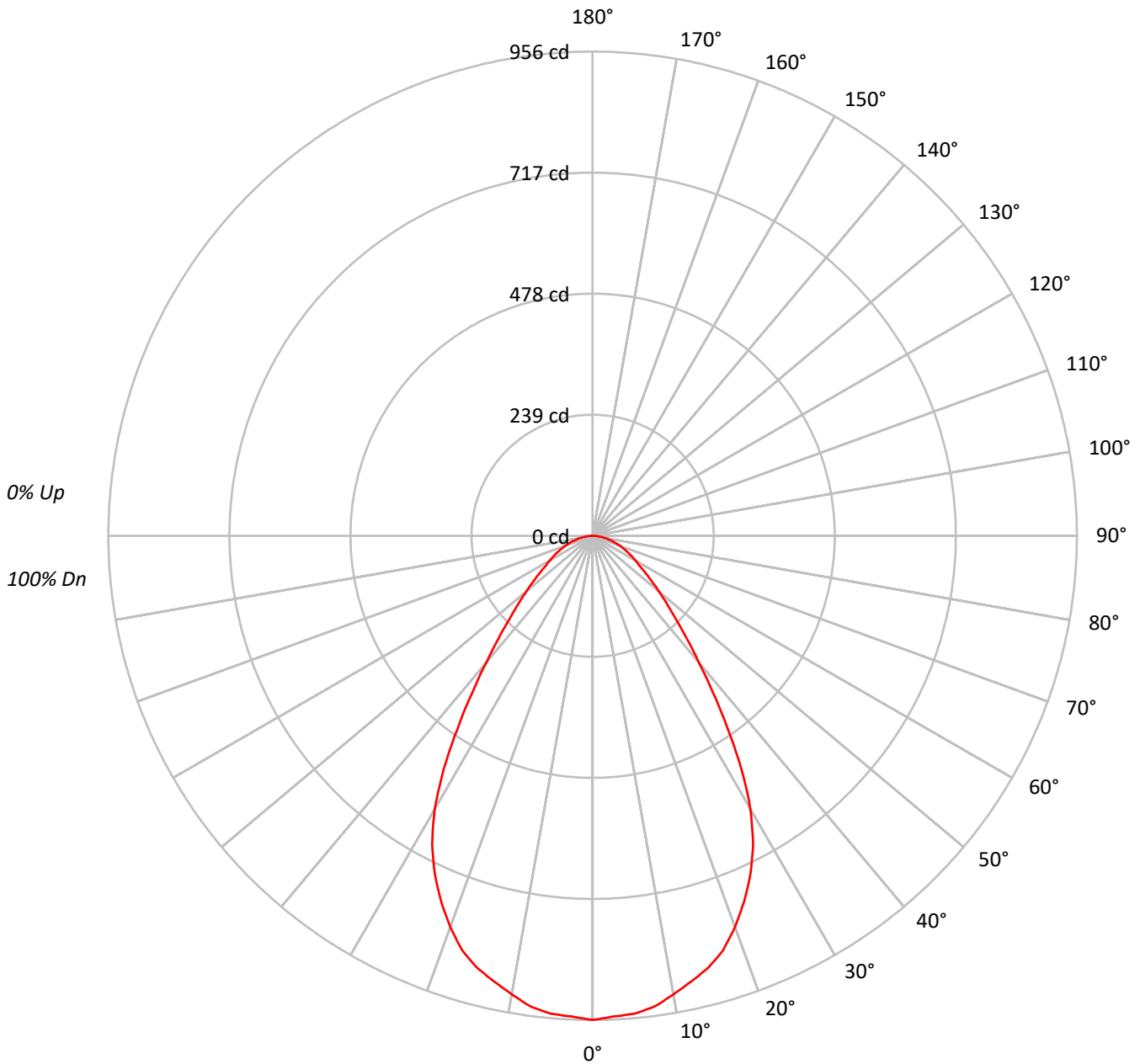
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
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°	117906
5°	117279
10°	115141
15°	112718
20°	107884
25°	100317
30°	88789
35°	70079
40°	52459
45°	40347
50°	32737
55°	27139
60°	24003
65°	22240
70°	20484
75°	18825
80°	17119
85°	13728



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	6.4
10°-20°	247.5	17.8
20°-30°	336.1	24.2
30°-40°	291.2	20.9
40°-50°	182.8	13.1
50°-60°	115.0	8.3
60°-70°	75.6	5.4
70°-80°	41.6	3.0
80°-90°	11.4	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°	673.2	48.4
0°-40°	964.3	69.3
0°-60°	1262.1	90.7
0°-90°	1390.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1390.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	956	
5°	947	90
15°	883	248
25°	737	336
35°	465	291
45°	231	183
55°	126	115
65°	76	76
75°	40	42
85°	10	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	955.9
2.5°	950.1
5°	947.2
7.5°	937.6
10°	919.3
12.5°	901.0
15°	882.7
17.5°	857.6
20°	821.9
22.5°	781.5
25°	737.1
27.5°	686.1
30°	623.4
32.5°	547.4
35°	465.4
37.5°	390.2
40°	325.8
42.5°	274.6
45°	231.3
47.5°	198.5
50°	170.6
52.5°	146.4
55°	126.2
57.5°	108.9
60°	97.3
62.5°	86.8
65°	76.2
67.5°	65.5
70°	56.8
72.5°	47.2
75°	39.5
77.5°	30.8
80°	24.1
82.5°	16.4
85°	9.7
87.5°	3.9
90°	0.0



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— 0°-180°







(END OF REPORT)