

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: P579829

Luminaire Tested: **HC415D010-HM40525827-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579829  
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-HM40525827-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1435.2 lumens  
Efficiency: N/A  
Efficacy: 102.5 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

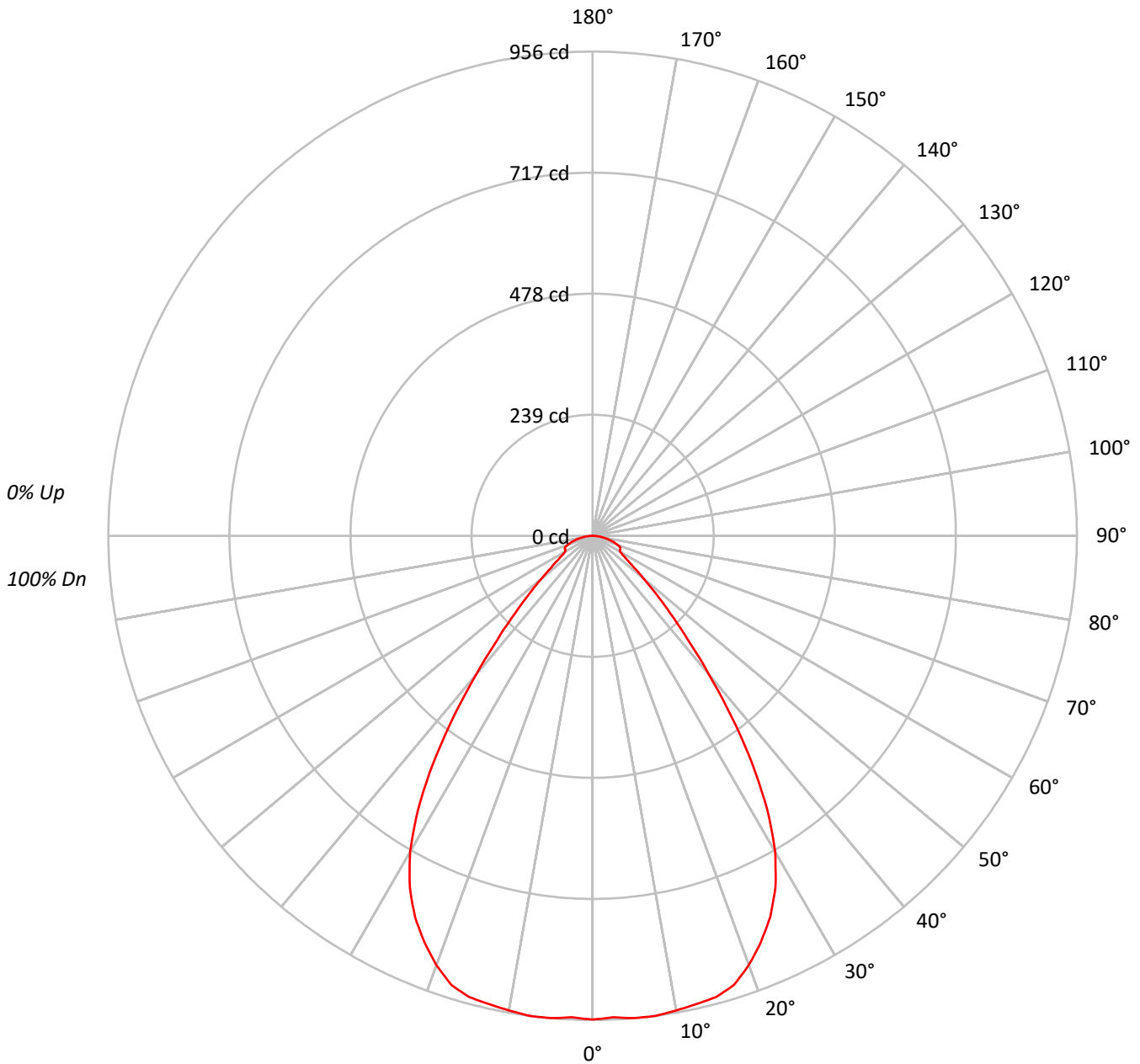
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	117820
5°	118381
10°	119199
15°	120393
20°	118385
25°	112933
30°	102605
35°	82757
40°	57435
45°	37696
50°	25272
55°	17978
60°	15369
65°	17658
70°	18934
75°	18205
80°	16408
85°	15143



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.1	6.3
10°-20°	264.8	18.5
20°-30°	378.4	26.4
30°-40°	338.0	23.6
40°-50°	173.4	12.1
50°-60°	78.8	5.5
60°-70°	58.8	4.1
70°-80°	40.0	2.8
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°	734.4	51.2
0°-40°	1072.4	74.7
0°-60°	1324.6	92.3
0°-90°	1435.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1435.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	955	
5°	956	91
15°	943	265
25°	830	378
35°	550	338
45°	216	173
55°	84	79
65°	60	59
75°	38	40
85°	11	12
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	955.2
2.5°	951.7
5°	956.1
7.5°	956.1
10°	951.7
12.5°	947.2
15°	942.8
17.5°	929.4
20°	901.9
22.5°	868.1
25°	829.8
27.5°	781.8
30°	720.4
32.5°	642.2
35°	549.6
37.5°	450.9
40°	356.7
42.5°	278.3
45°	216.1
47.5°	169.0
50°	131.7
52.5°	103.1
55°	83.6
57.5°	70.3
60°	62.3
62.5°	60.5
65°	60.5
67.5°	58.7
70°	52.5
72.5°	45.4
75°	38.2
77.5°	30.2
80°	23.1
82.5°	16.9
85°	10.7
87.5°	4.4
90°	0.0



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— 0°-180°







(END OF REPORT)