

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: P579965

Luminaire Tested: **HC415D010-HM40525940-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579965  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC415D010-HM40525940-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1306.3 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

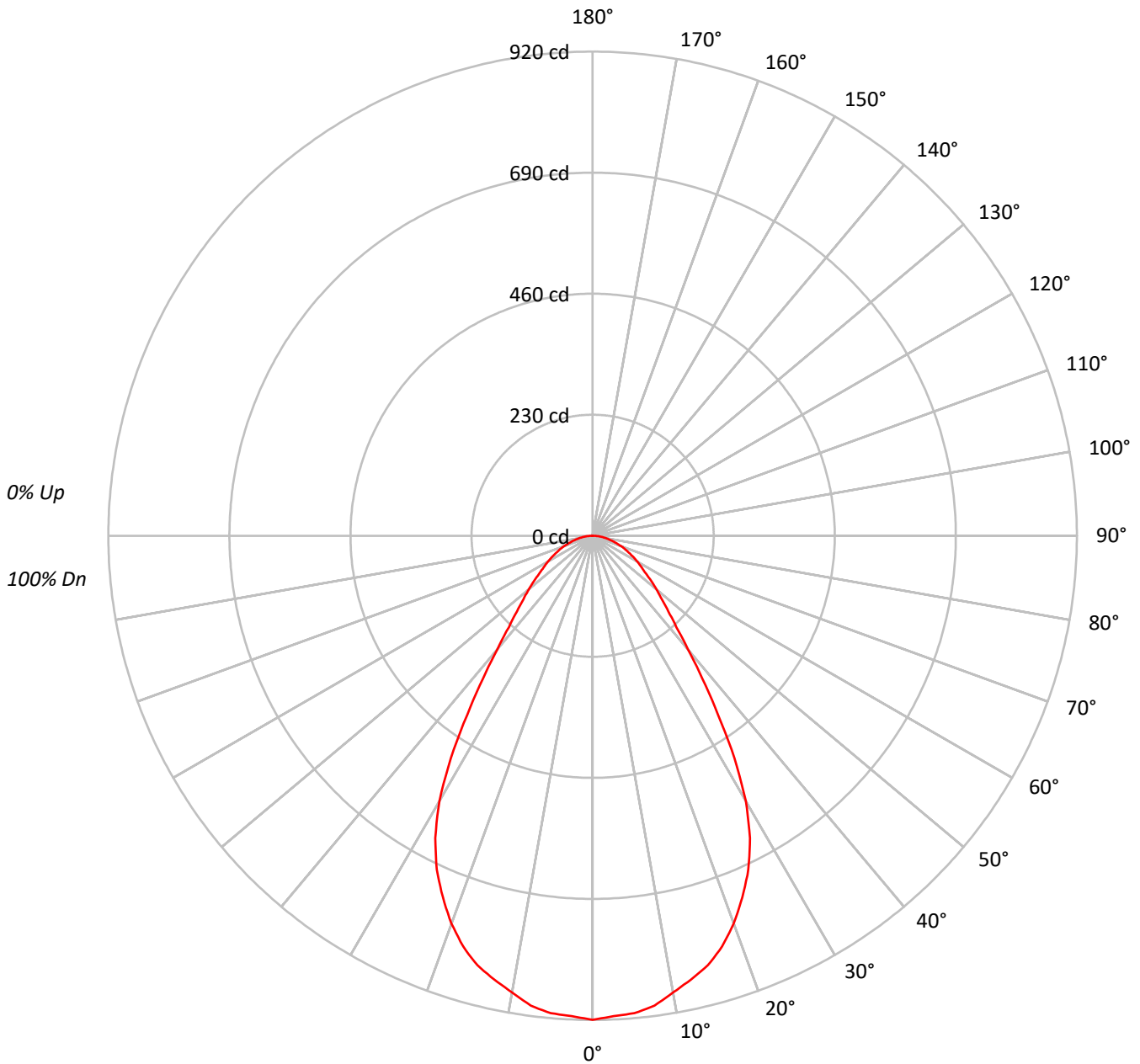
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	113453
5°	112748
10°	110356
15°	107904
20°	102922
25°	95281
30°	82864
35°	62580
40°	45342
45°	35446
50°	30300
55°	26214
60°	24151
65°	22094
70°	20665
75°	18920
80°	17687
85°	17124



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.0	6.6
10°-20°	236.7	18.1
20°-30°	318.3	24.4
30°-40°	261.7	20.0
40°-50°	160.7	12.3
50°-60°	111.2	8.5
60°-70°	75.9	5.8
70°-80°	42.2	3.2
80°-90°	13.5	1.0
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°	641.0	49.1
0°-40°	902.7	69.1
0°-60°	1174.7	89.9
0°-90°	1306.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1306.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	920	
5°	911	86
15°	845	237
25°	700	318
35°	416	262
45°	203	161
55°	122	111
65°	76	76
75°	40	42
85°	12	13
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	919.8
2.5°	913.4
5°	910.6
7.5°	900.5
10°	881.1
12.5°	863.6
15°	845.0
17.5°	818.3
20°	784.1
22.5°	743.5
25°	700.1
27.5°	647.4
30°	581.8
32.5°	501.5
35°	415.6
37.5°	341.7
40°	281.6
42.5°	235.5
45°	203.2
47.5°	178.3
50°	157.9
52.5°	139.5
55°	121.9
57.5°	108.9
60°	97.9
62.5°	86.9
65°	75.7
67.5°	66.5
70°	57.3
72.5°	48.0
75°	39.7
77.5°	31.4
80°	24.9
82.5°	18.4
85°	12.1
87.5°	6.5
90°	0.0



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— 0°-180°







(END OF REPORT)