

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: P592829

Luminaire Tested: **HC440D010-HM43040950-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592829  
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: HC440D010-HM43040950-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3434.2 lumens  
Efficiency: N/A  
Efficacy: 83.8 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

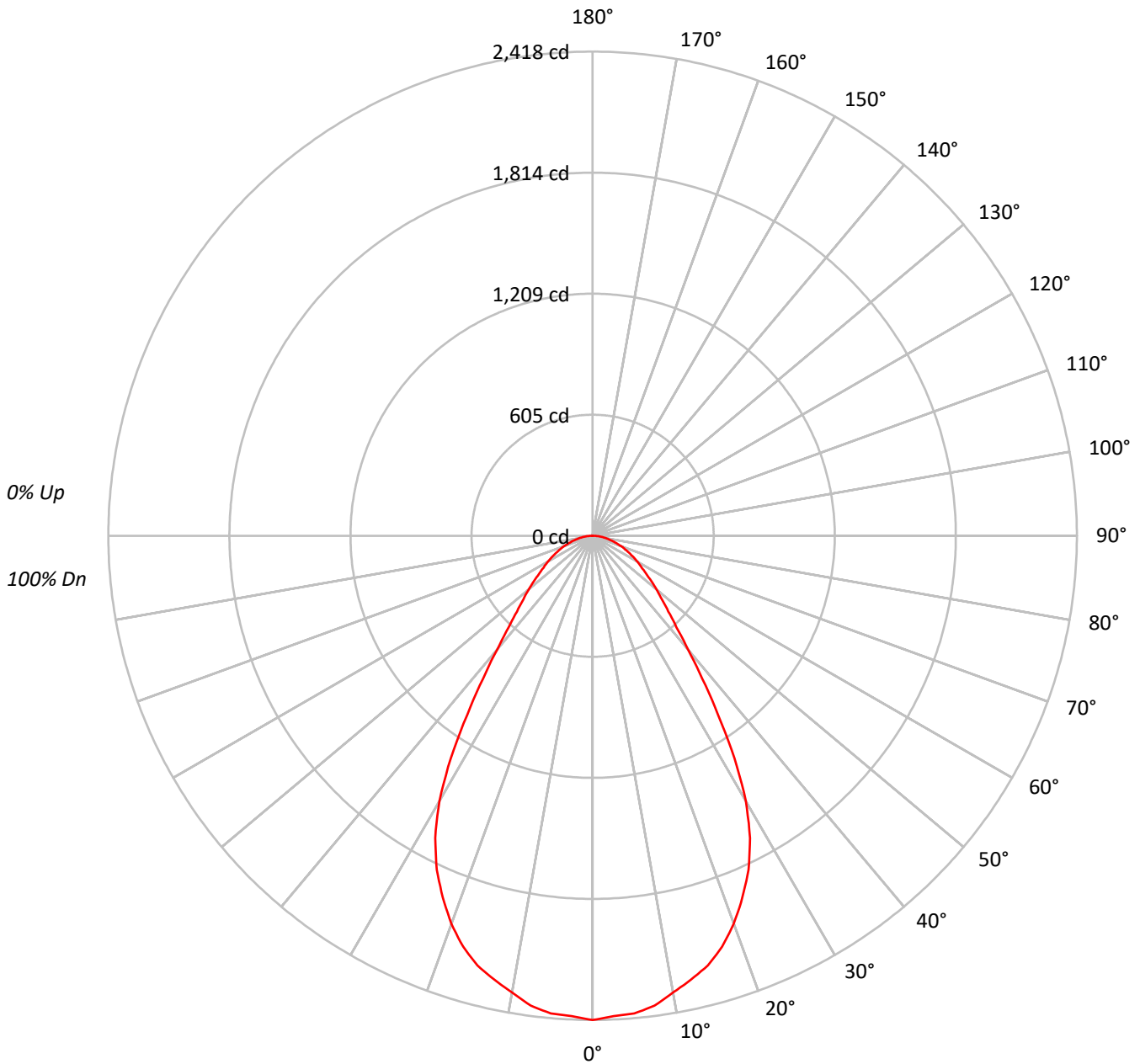
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				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	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89				89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78				78
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70				70
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63				63
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57				57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	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	47	42	52	46	42	51	46	42	40				40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37				37

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

	0°
0°	298287
5°	296430
10°	290113
15°	283704
20°	270583
25°	250486
30°	217871
35°	164521
40°	119233
45°	93184
50°	79673
55°	68922
60°	63498
65°	58109
70°	54312
75°	49754
80°	46597
85°	44721



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.1	6.6
10°-20°	622.3	18.1
20°-30°	836.8	24.4
30°-40°	688.1	20.0
40°-50°	422.6	12.3
50°-60°	292.5	8.5
60°-70°	199.4	5.8
70°-80°	111.1	3.2
80°-90°	35.3	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°	1685.3	49.1
0°-40°	2373.3	69.1
0°-60°	3088.4	89.9
0°-90°	3434.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3434.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2418	
5°	2394	226
15°	2222	622
25°	1840	837
35°	1093	688
45°	534	423
55°	320	292
65°	199	199
75°	104	111
85°	32	35
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2418.3
2.5°	2401.3
5°	2394.1
7.5°	2367.3
10°	2316.3
12.5°	2270.2
15°	2221.7
17.5°	2151.3
20°	2061.4
22.5°	1954.6
25°	1840.5
27.5°	1702.0
30°	1529.7
32.5°	1318.4
35°	1092.6
37.5°	898.4
40°	740.5
42.5°	619.1
45°	534.2
47.5°	468.6
50°	415.2
52.5°	366.7
55°	320.5
57.5°	286.5
60°	257.4
62.5°	228.2
65°	199.1
67.5°	174.9
70°	150.6
72.5°	126.2
75°	104.4
77.5°	82.5
80°	65.6
82.5°	48.5
85°	31.6
87.5°	17.0
90°	0.0



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— 0°-180°







(END OF REPORT)