

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: P580481

Luminaire Tested: **HC435D010-HM43040927-41NDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580481  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC435D010-HM43040927-41NDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

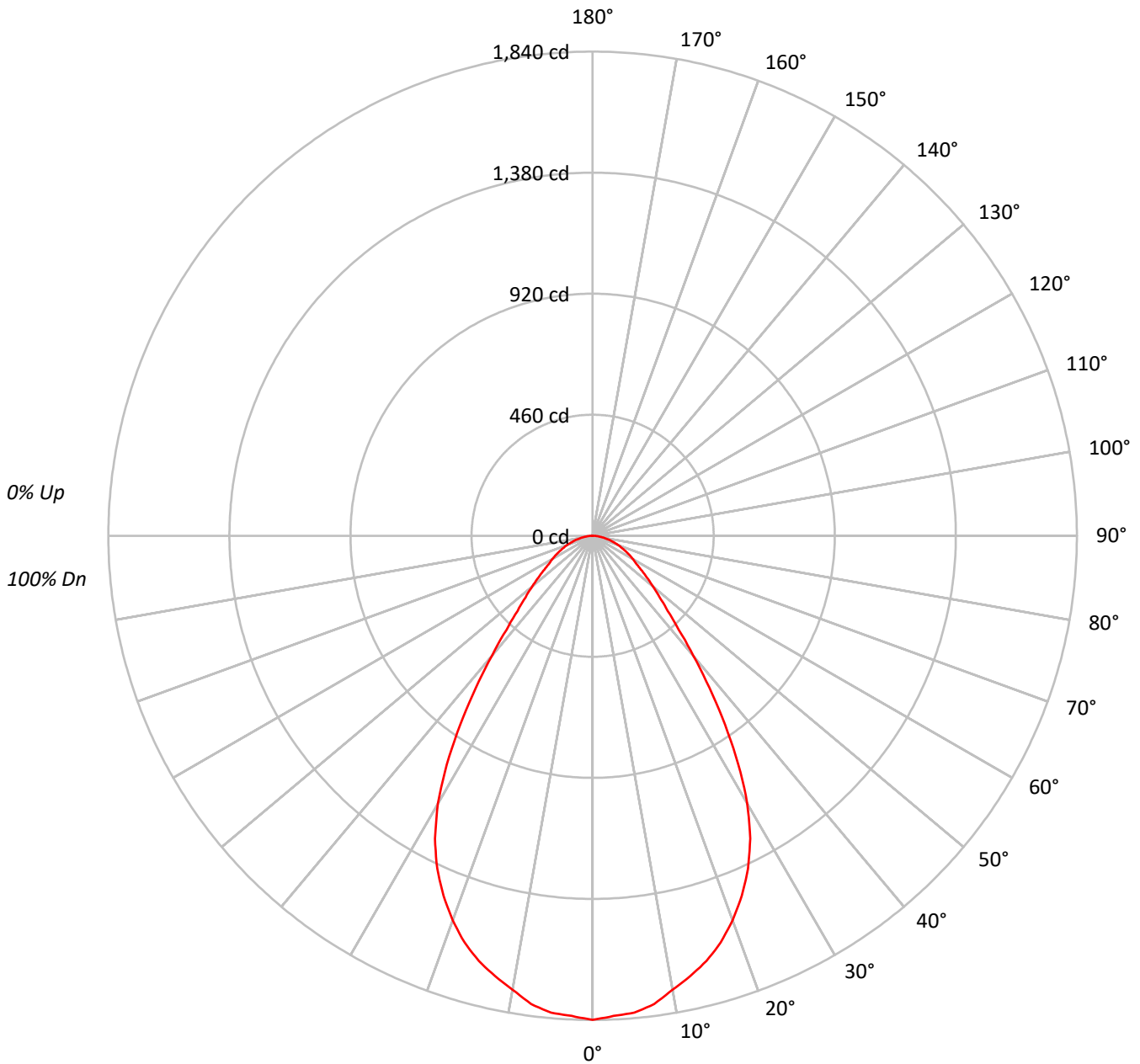
Lumens per Lamp: N/A  
Luminaire Lumens: 2582.9 lumens  
Efficiency: N/A  
Efficacy: 76.6 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89			89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			52
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			38

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

	0°
0°	226919
5°	225235
10°	219360
15°	213586
20°	204033
25°	190086
30°	167366
35°	132011
40°	95805
45°	70403
50°	57280
55°	48020
60°	43541
65°	39985
70°	37254
75°	34027
80°	30686
85°	26606



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.5	6.6
10°-20°	469.1	18.2
20°-30°	636.0	24.6
30°-40°	545.7	21.1
40°-50°	322.2	12.5
50°-60°	204.2	7.9
60°-70°	137.2	5.3
70°-80°	75.7	2.9
80°-90°	21.2	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°	1276.6	49.4
0°-40°	1822.3	70.6
0°-60°	2348.7	90.9
0°-90°	2582.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2582.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1840	
5°	1819	172
15°	1673	469
25°	1397	636
35°	877	546
45°	404	322
55°	223	204
65°	137	137
75°	71	76
85°	19	21
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1839.7
2.5°	1826.6
5°	1819.1
7.5°	1794.7
10°	1751.4
12.5°	1713.9
15°	1672.6
17.5°	1620.0
20°	1554.4
22.5°	1481.1
25°	1396.7
27.5°	1297.2
30°	1175.1
32.5°	1030.6
35°	876.7
37.5°	728.4
40°	595.0
42.5°	484.3
45°	403.6
47.5°	345.4
50°	298.5
52.5°	259.1
55°	223.3
57.5°	195.2
60°	176.5
62.5°	157.7
65°	137.0
67.5°	120.2
70°	103.3
72.5°	86.3
75°	71.4
77.5°	56.3
80°	43.2
82.5°	30.0
85°	18.8
87.5°	7.5
90°	0.0



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— 0°-180°







(END OF REPORT)