

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: P580582

Luminaire Tested: **HC440D010-HM43040835-41NDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580582  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC440D010-HM43040835-41NDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3783.7 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.91  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

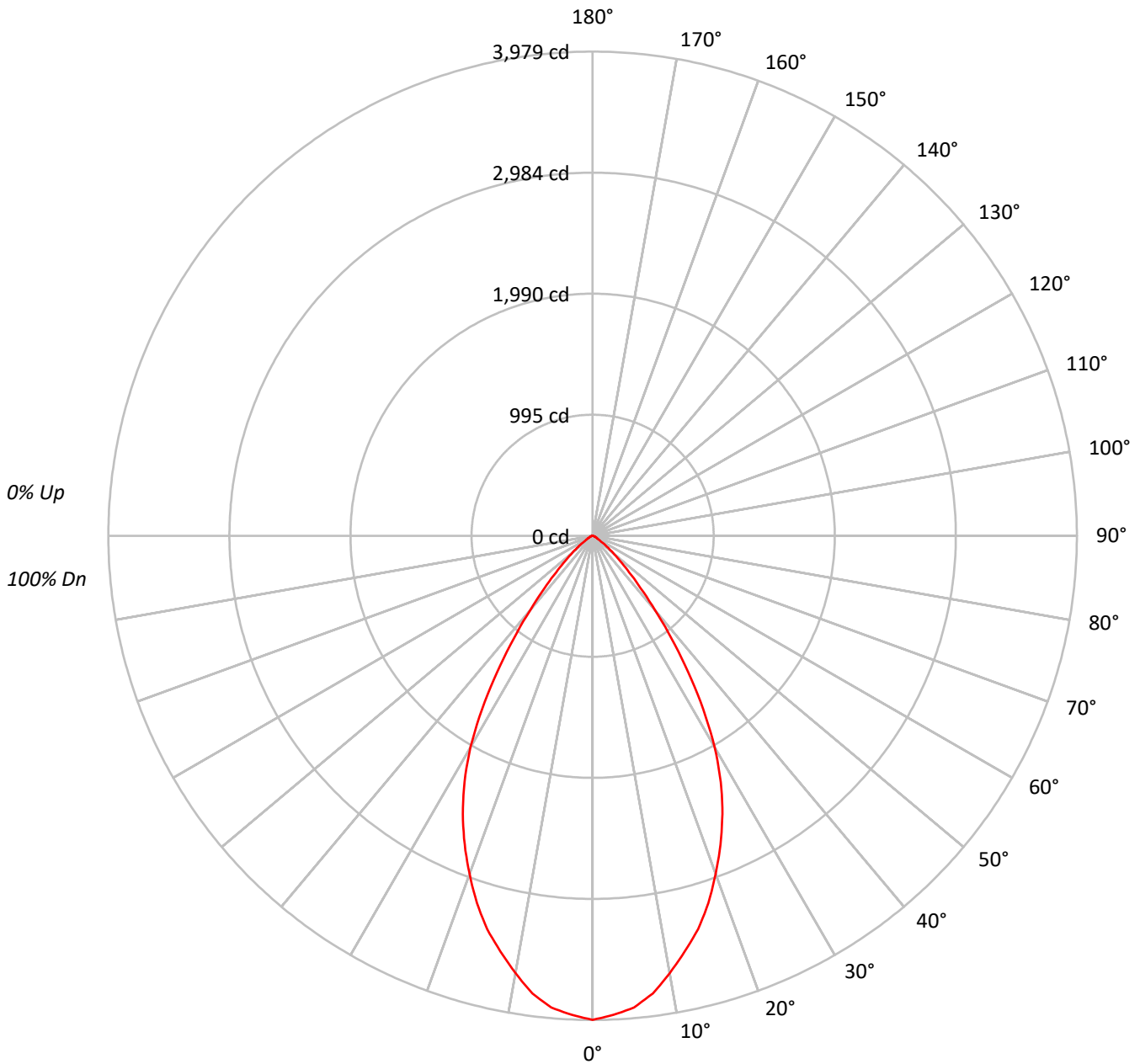
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20				
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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86			86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79			79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73			73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67			67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	63			63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58			58
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54			54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51			51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48			48

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

	0°
0°	490755
5°	481845
10°	457032
15°	427337
20°	388101
25°	343440
30°	285666
35°	206005
40°	128572
45°	74153
50°	41832
55°	19935
60°	11422
65°	8727
70°	5914
75°	3908
80°	3907
85°	3821



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	363.7	9.6
10°-20°	933.5	24.7
20°-30°	1148.2	30.3
30°-40°	852.7	22.5
40°-50°	346.6	9.2
50°-60°	96.0	2.5
60°-70°	29.8	0.8
70°-80°	10.1	0.3
80°-90°	3.0	0.1
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°	2445.4	64.6
0°-40°	3298.2	87.2
0°-60°	3740.8	98.9
0°-90°	3783.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3783.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3979	
5°	3892	364
15°	3346	934
25°	2524	1148
35°	1368	853
45°	425	347
55°	93	96
65°	30	30
75°	8	10
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3978.7
2.5°	3940.5
5°	3891.6
7.5°	3793.4
10°	3649.0
12.5°	3499.1
15°	3346.5
17.5°	3163.9
20°	2956.7
22.5°	2746.9
25°	2523.5
27.5°	2280.9
30°	2005.7
32.5°	1692.3
35°	1368.1
37.5°	1062.8
40°	798.5
42.5°	583.1
45°	425.1
47.5°	305.2
50°	218.0
52.5°	149.9
55°	92.7
57.5°	60.0
60°	46.3
62.5°	38.1
65°	29.9
67.5°	21.7
70°	16.4
72.5°	13.7
75°	8.2
77.5°	5.5
80°	5.5
82.5°	2.7
85°	2.7
87.5°	2.7
90°	0.0



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— 0°-180°







(END OF REPORT)