

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: P580730

Luminaire Tested: **HC445D010-HM44560835-41NDC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580730  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC445D010-HM44560835-41NDC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4405.1 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

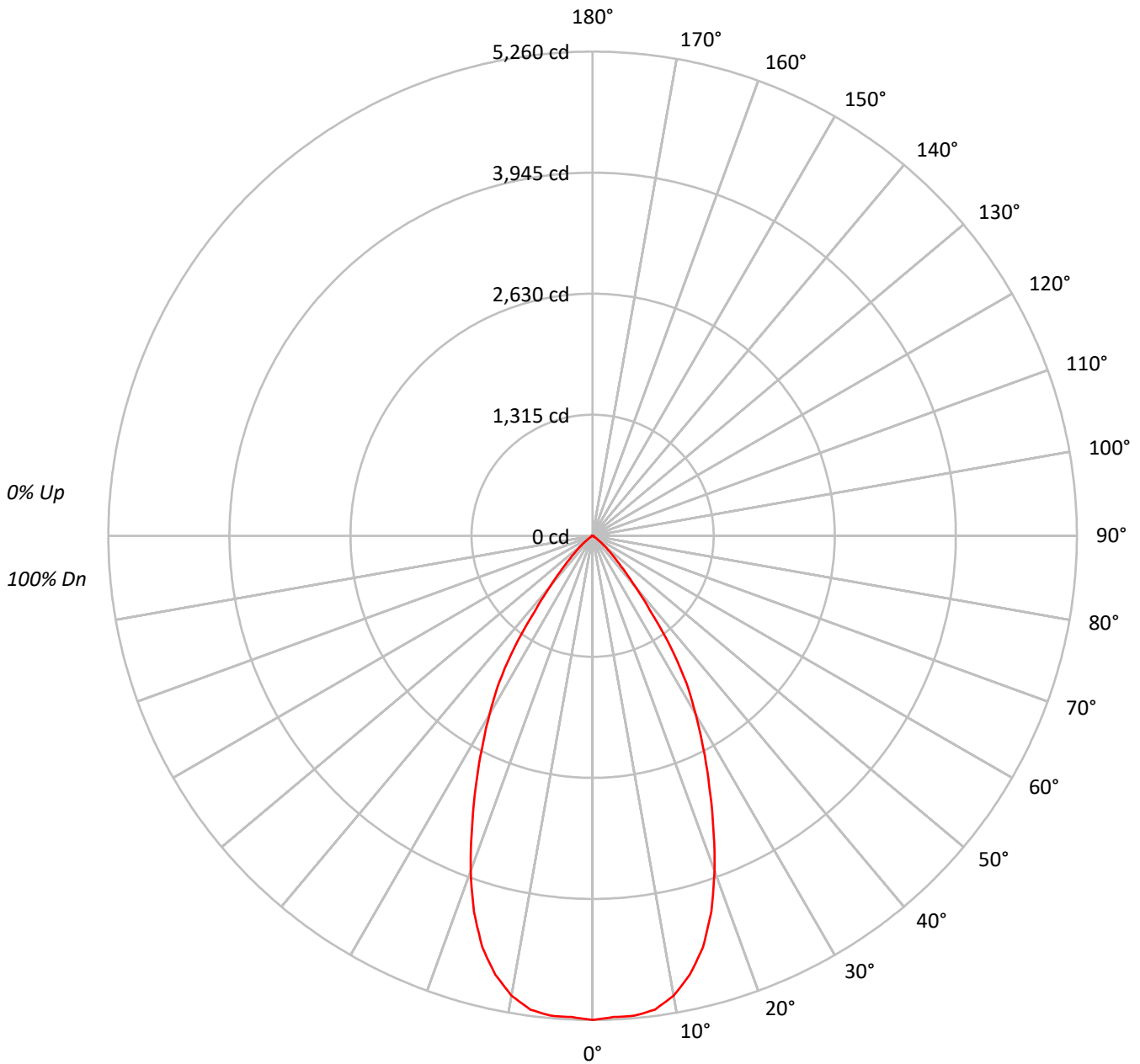
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100
1	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94	94	94	94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87	87	87	87
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81	81	81	81
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76	76	76	76
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71	71	71	71
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66	66	66	66
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62	62	62	62
8	80	70	64	60	78	70	64	60	69	64	60	68	63	60	67	62	59	58	58	58	58
9	76	66	61	57	75	66	60	57	65	60	56	64	59	56	63	59	56	55	55	55	55
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	51	51	51	51

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

	0°
0°	648823
5°	647995
10°	635360
15°	590789
20°	508088
25°	408154
30°	318667
35°	223110
40°	114499
45°	58122
50°	29110
55°	10881
60°	4391
65°	3473
70°	2128
75°	1430
80°	2131
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	494.8	11.2
10°-20°	1277.1	29.0
20°-30°	1375.8	31.2
30°-40°	903.9	20.5
40°-50°	281.1	6.4
50°-60°	55.2	1.3
60°-70°	11.7	0.3
70°-80°	4.3	0.1
80°-90°	1.2	0.0
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°	3147.7	71.5
0°-40°	4051.6	92.0
0°-60°	4387.9	99.6
0°-90°	4405.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4405.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5260	
5°	5234	495
15°	4626	1277
25°	2999	1376
35°	1482	904
45°	333	281
55°	51	55
65°	12	12
75°	3	4
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5260.2
2.5°	5233.5
5°	5233.5
7.5°	5191.7
10°	5072.8
12.5°	4882.4
15°	4626.5
17.5°	4284.4
20°	3870.8
22.5°	3424.5
25°	2999.0
27.5°	2603.3
30°	2237.4
32.5°	1892.3
35°	1481.7
37.5°	1032.4
40°	711.1
42.5°	490.9
45°	333.2
47.5°	226.1
50°	151.7
52.5°	95.3
55°	50.6
57.5°	20.9
60°	17.8
62.5°	14.9
65°	11.9
67.5°	9.0
70°	5.9
72.5°	5.9
75°	3.0
77.5°	3.0
80°	3.0
82.5°	3.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)