

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: P581162

Luminaire Tested: **HC455D010-HM44560835-41NDC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581162  
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: HC455D010-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: 4878.2 lumens  
Efficiency: N/A  
Efficacy: 93.8 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

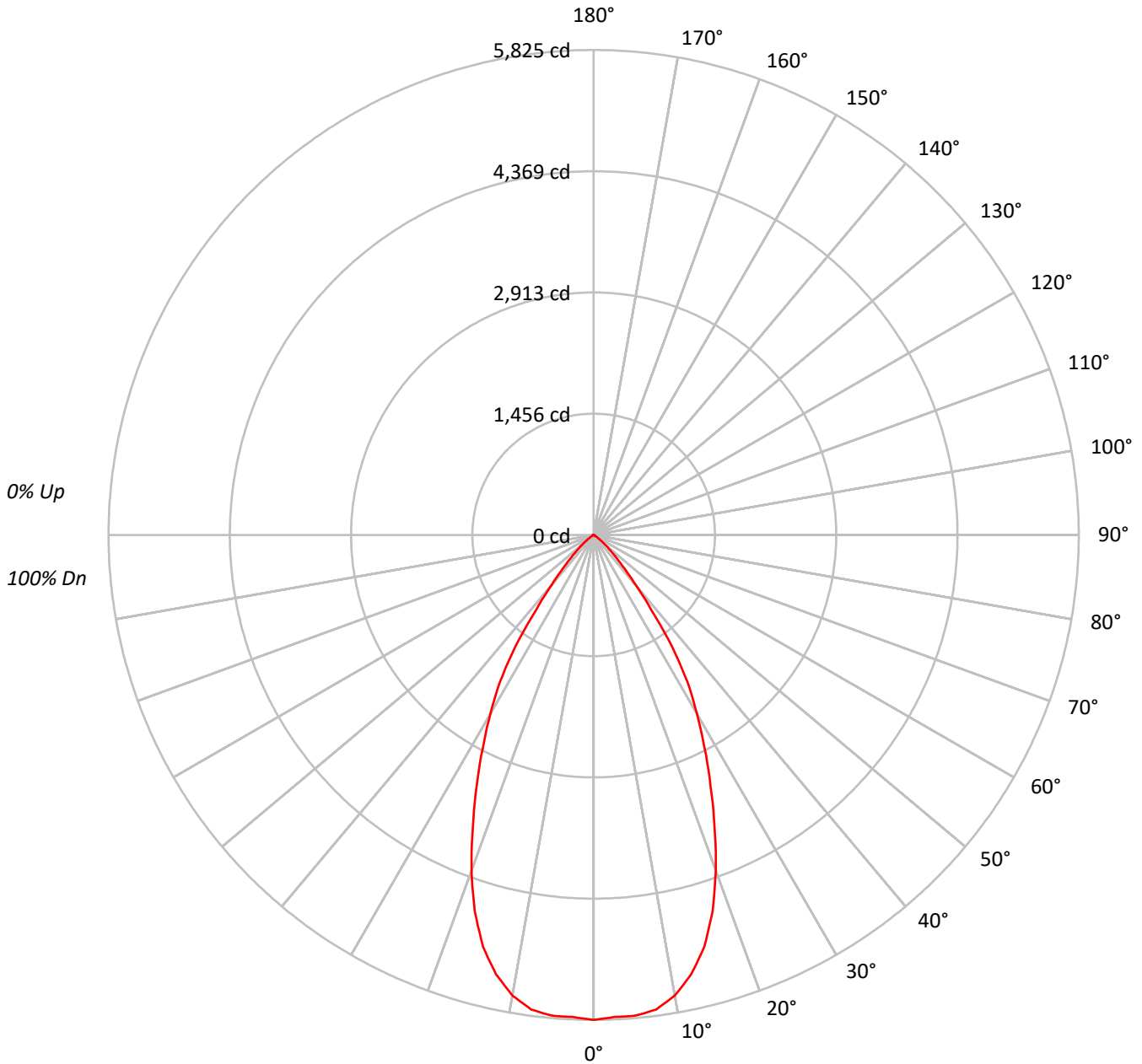
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	718501
5°	717593
10°	703596
15°	654242
20°	562653
25°	451991
30°	352892
35°	247067
40°	126800
45°	64367
50°	32257
55°	12043
60°	4884
65°	3853
70°	2380
75°	1573
80°	2344
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	547.9	11.2
10°-20°	1414.2	29.0
20°-30°	1523.5	31.2
30°-40°	1001.0	20.5
40°-50°	311.3	6.4
50°-60°	61.1	1.3
60°-70°	13.0	0.3
70°-80°	4.8	0.1
80°-90°	1.3	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°	3485.7	71.5
0°-40°	4486.7	92.0
0°-60°	4859.1	99.6
0°-90°	4878.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4878.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5825	
5°	5796	548
15°	5123	1414
25°	3321	1524
35°	1641	1001
45°	369	311
55°	56	61
65°	13	13
75°	3	5
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5825.1
2.5°	5795.6
5°	5795.6
7.5°	5749.4
10°	5617.6
12.5°	5406.8
15°	5123.4
17.5°	4744.5
20°	4286.5
22.5°	3792.3
25°	3321.1
27.5°	2882.9
30°	2477.7
32.5°	2095.5
35°	1640.8
37.5°	1143.3
40°	787.5
42.5°	543.6
45°	369.0
47.5°	250.4
50°	168.1
52.5°	105.4
55°	56.0
57.5°	23.1
60°	19.8
62.5°	16.4
65°	13.2
67.5°	9.9
70°	6.6
72.5°	6.6
75°	3.3
77.5°	3.3
80°	3.3
82.5°	3.3
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)